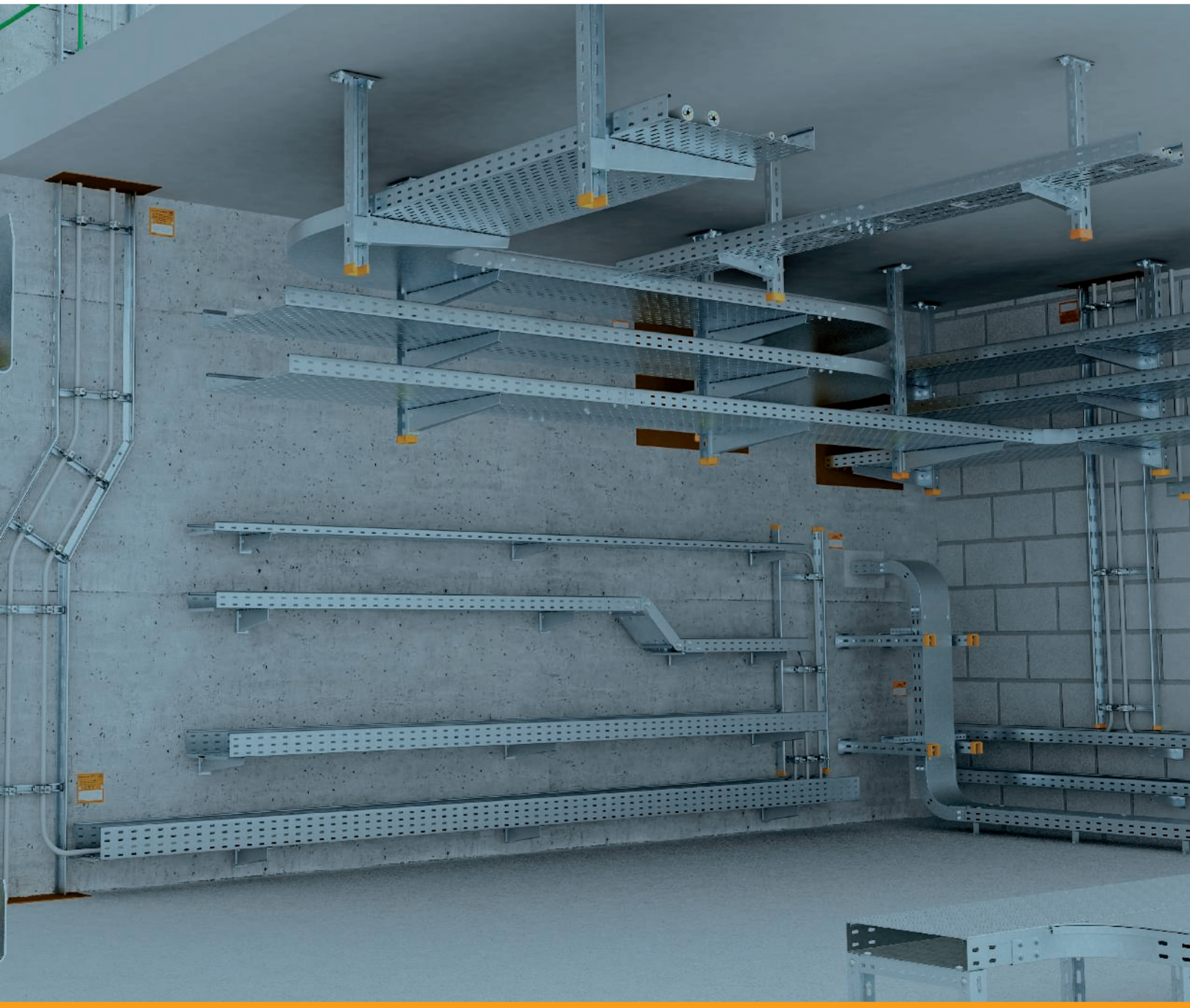
INDUSTRIAL INSTALLATIONS



Cable support systems

OBO BETTERMANN

Building Connections

Digitalisation, the Energiewende (energy transition), mobility – the future is gathering speed. At OBO Bettermann, we're proud to be a driving force. And as a facilitator, we make connections. Today, we are already developing the innovative electrical infrastructure systems and solutions of tomorrow. Reliably, flexibly, sustainably.

Already today, OBO is one of the leading manufacturers of installation systems for the electrical infrastructure in buildings and plants. When it comes to the friction-free flow of power, energy and data, engineers and tradespeople worldwide rely on the comprehensive range from OBO.

OBO applies its slogan "Building Connections" to around 30,000 high-quality branded electrical products and services, which are used in application solutions for projects in industry, business and infrastructure.

OBO operates a global network and employs more than 4,200 people in more than 60 countries. The headquarters of the family company, which was founded in 1911, is located in Menden, Germany. In addition, more than 40 subsidiaries are present in markets on all continents.

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Improved structure, sharpened profile

Each of our products carries a benefit which only the OBO brand can offer. Products are developed, manufactured and tested with a high level of competence – from the idea through to the final check. From flawless logistics through to practical information – we can provide support at every level. We can offer additional security through certificates on the conformity of our products with the most important standards and directives. In a nutshell – OBO helps you more. In every location and in every phase of a project.

To maintain this, we continually challenge ourselves. Not as an end in itself but for the better processing of each customer's requests – fast, reliably and future-oriented. That is the reason we have not only established our three central application areas, but also reworked our catalogue structure. In this way, we can display our service offers more clearly, highlight the product benefits more effectively and illustrate the respective application areas more tangibly.

OBO Product Worlds

Industrial installations

- Cable support systems
- Connection and routing systems
- Fastening material

Building installations

- Cable routing systems
- Device installation ducts, trunking and poles
- Floor installation systems and underfloor applications
- Installation systems

Safety and protection installations

- Surge protection
- External lightning protection
- Equipotential bonding and earthing
- Insulation and cable bandages
- Fire-tested support and routing systems
- Fire protection ducts

It's your choice – from now on there's a catalogue for each OBO product category. Simply select the catalogues and order together with a collection case.

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Always at your service

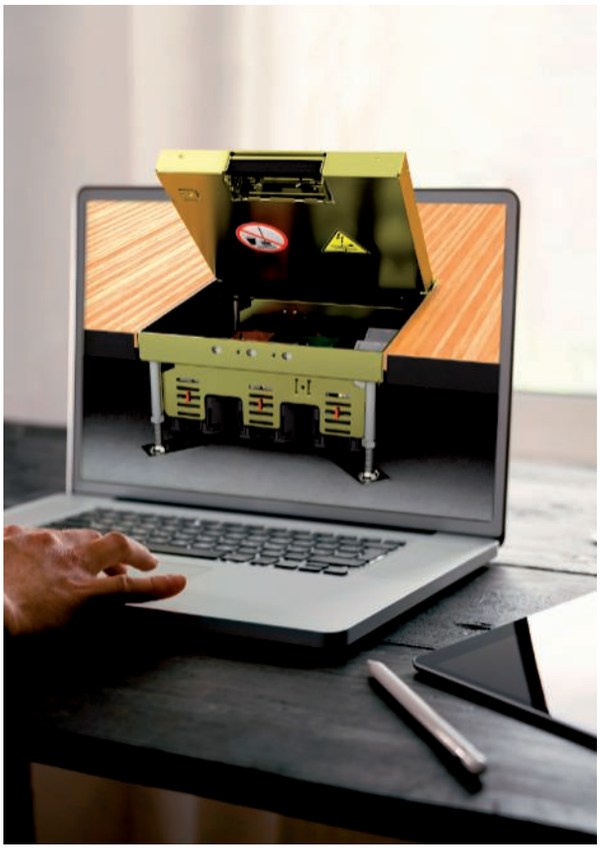
If you have questions about products, installation or planning – OBO staff offer exceptionally competent support at each and every phase of your project. So that you are always on the safe side.

- Product and system information, digitally or printed
- Selection and planning aids on the web, as a CAD application or in printed form, as well as in the myOBO app
- 2D and 3D product data for planning
- Field service and branch offices in 60 countries
- Engineering services for major projects

Our Customer Service can be contacted on +49 23 73 89 - 17 00

Monday–Thursday	07.30 - 17.00
Friday	07.30 - 15.00

or via e-mail at export@obo.de



OBO Construct: Planning has never been so easy!

OBO Construct is a collection of planning tools that were developed especially for electrical installation engineers and planners. This platform offers support in product configuration and a selection aid for the matching systems, and automatically generates a corresponding parts list. With OBO Construct, you can therefore access and edit projects at any time and at any location – via your smartphone, tablet or desktop PC. Versions of the app are available for iOS and Android.

Laden im App Store

JETZT BEI Google Play

OBO Academy: From the basics to the concrete application

The OBO Academy has been offering an extensive further education programme for many years. This programme helps with first-hand information and expertise, giving you that essential head start in terms of in-depth knowledge. In our seminars, planner days or online seminars, we provide you with current developments, trends, norms and regulations – systematically, comprehensively and practically oriented.

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Planning virtually, implementing efficiently

When planning and implementing electrical technology, BIM (building information modelling) is becoming increasingly more important. We can now offer our partners the first solution to unlock the full potential of the BIM method for practical applications - giving you more planning efficiency, transparency and cost security with complex projects. Find out about the advantages of BIM@OBO now:

- Intelligent libraries structured according to individual systems
- Available for Revit, as a plug-in and directly via the OBO website
- Simple integration via drag & drop
- Practical display of material lists for ordering directly
- Intuitive user interface

You can find further information at **obo.de/BIM**.
Welcome to the future!

Clear delivery capability

With an approximate storage area of 38,000 m² and five strategically well-located sales warehouses, we ensure that our products arrive at the right place at the right time. Our logistics specialists work hard to ensure all our partners are supplied flexibly and as quickly as possible. This you can rely on!

1 **Sales Warehouse North**
Bad Fallingbostel

2 **Sales Warehouse West**
Iserlohn

3 **Sales Warehouse East**
Delitzsch

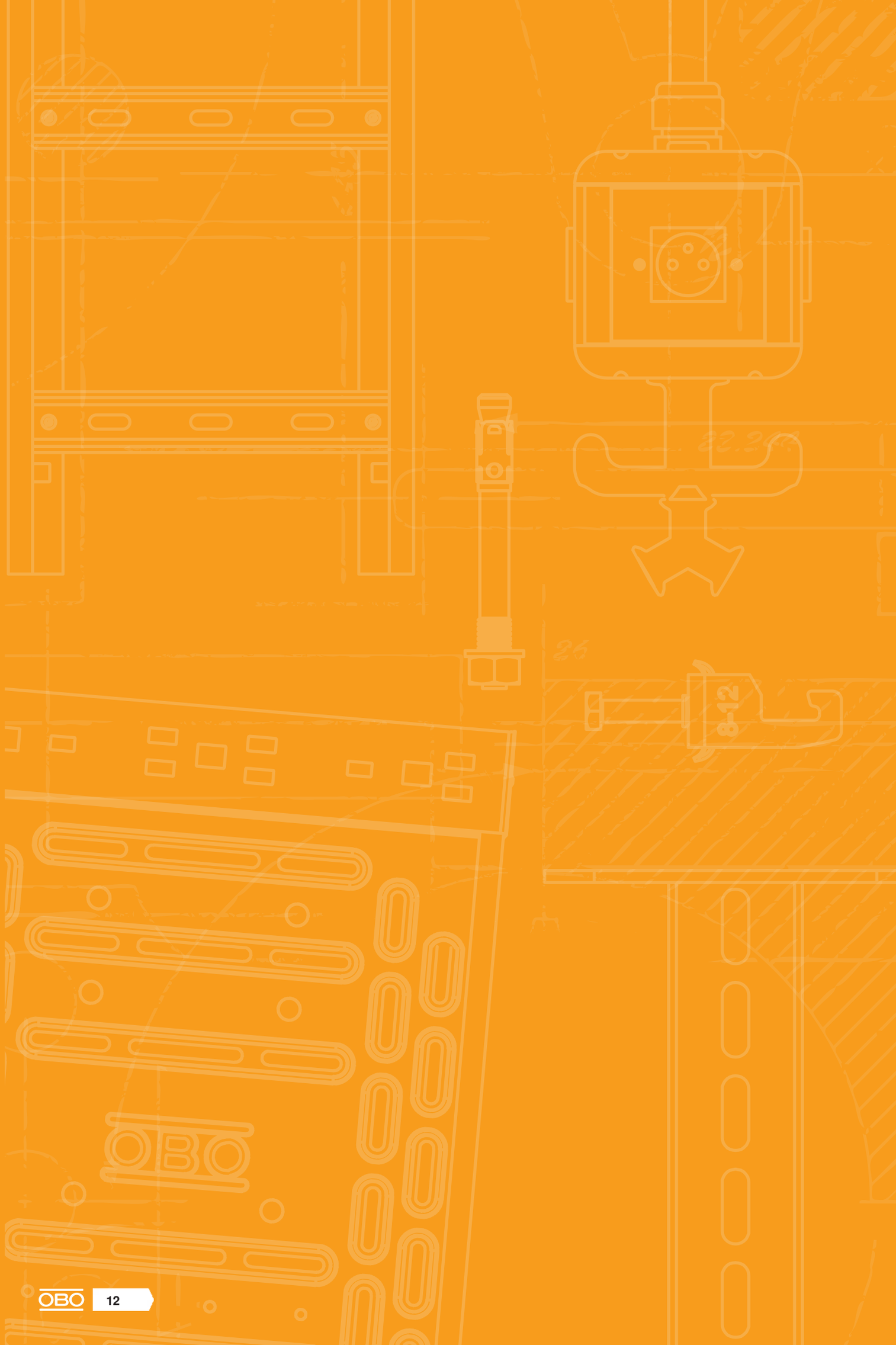
4 **Sales Warehouse South-West**
Groß-Rohrheim

5 **Sales Warehouse South**
Dasing

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Planning aids	Page
Cable trays	Page 12
Wide span systems	Page 162
Mesh cable trays	Page 206
Conductor systems	Page 276
Luminaire support systems	Page 348
Mounting systems	Page 364
Motor connection columns	Page 522
Directories	Page 526

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44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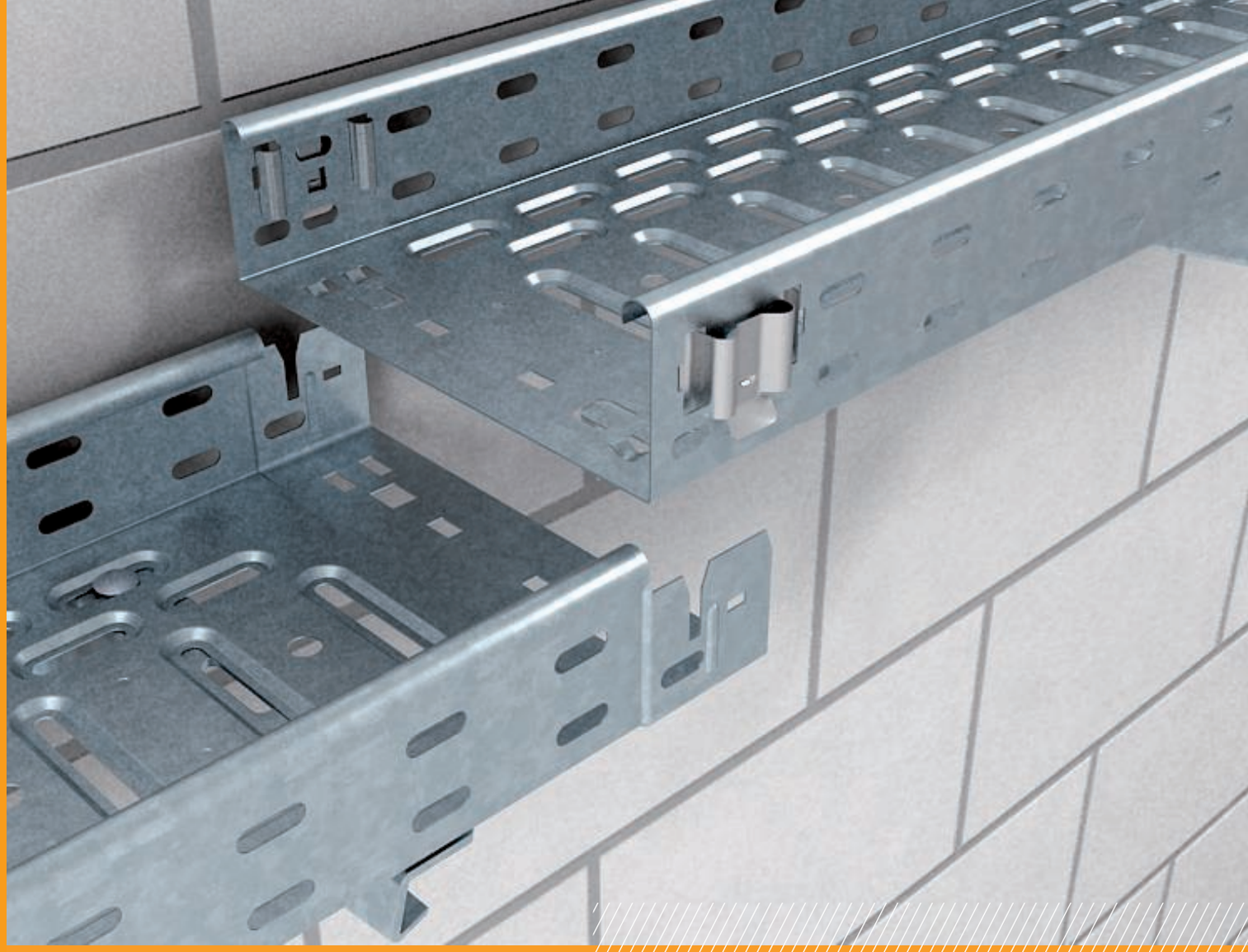
8-12

Cable trays

	Side height 35 mm	14
	Side height 60 mm	32
	Side height 85 mm	96
	Side height 110 mm	118
	System accessories, cable trays	144

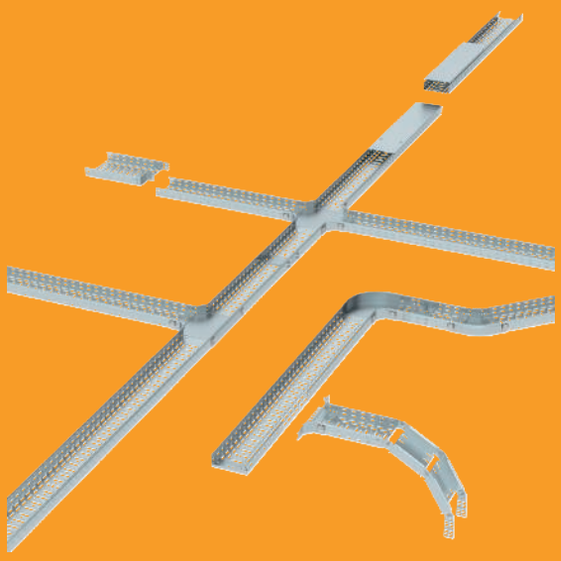
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



RKS-Magic® cable tray system

The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place - and you're done!

- Fast and secure connection through patented plug connection
- Locking system accessory, such as the barrier strip
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved cable tray system



System description

The RKS-Magic® cable tray system permits particularly fast straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you‘re done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights 35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), T branch pieces, add-on tees and cross-overs completes the system. Also 90° bends and adjustable bends (rising/falling) are available for vertical changes of direction. When mounting fittings, always plan additional supports.

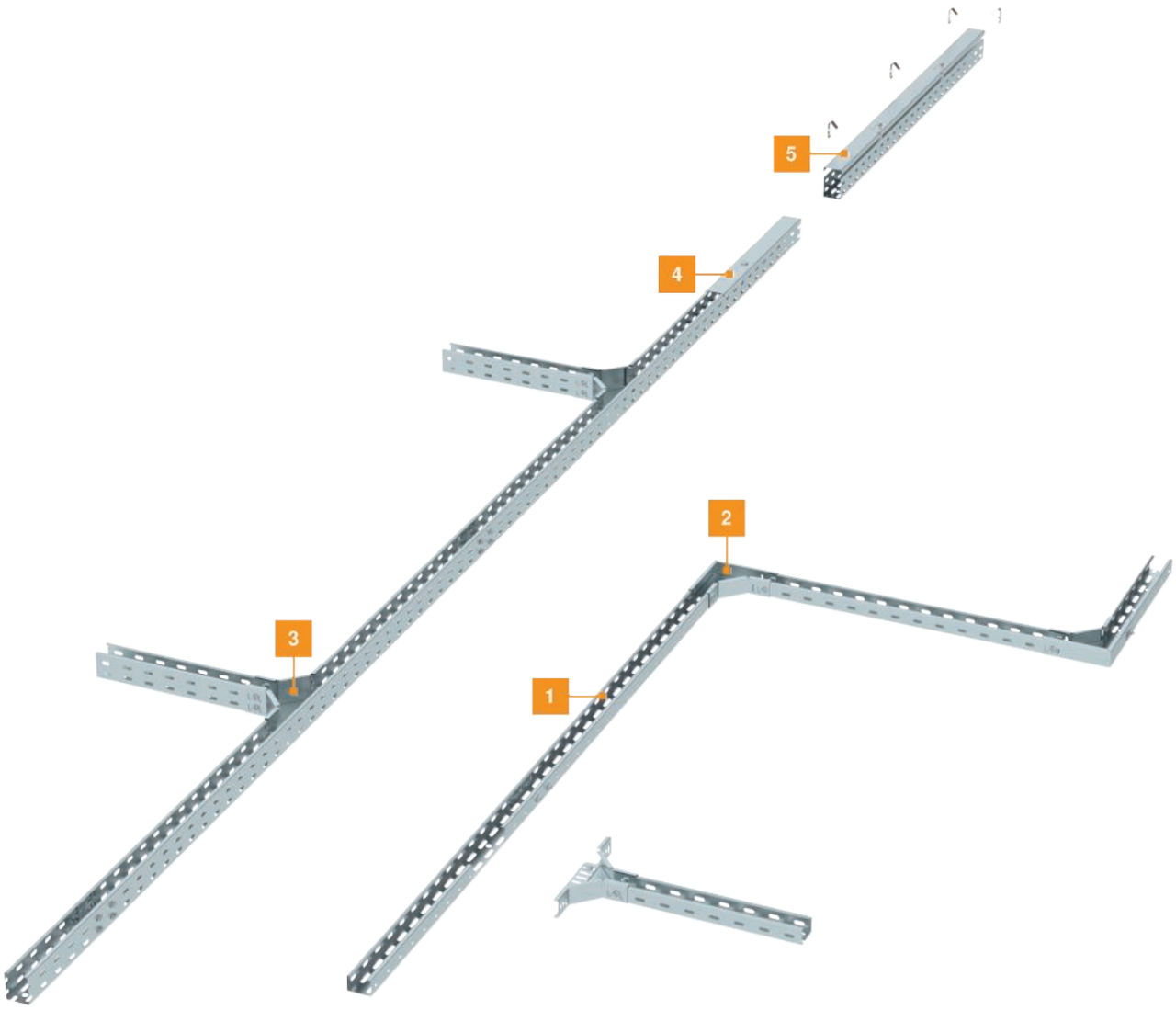
Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and additional accessories such as barrier strips, joint plates, mounting plates and covers.

You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for routing with the maintenance of electrical function. You can find comprehensive information on this in our new Safety and protective installations product catalogue.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

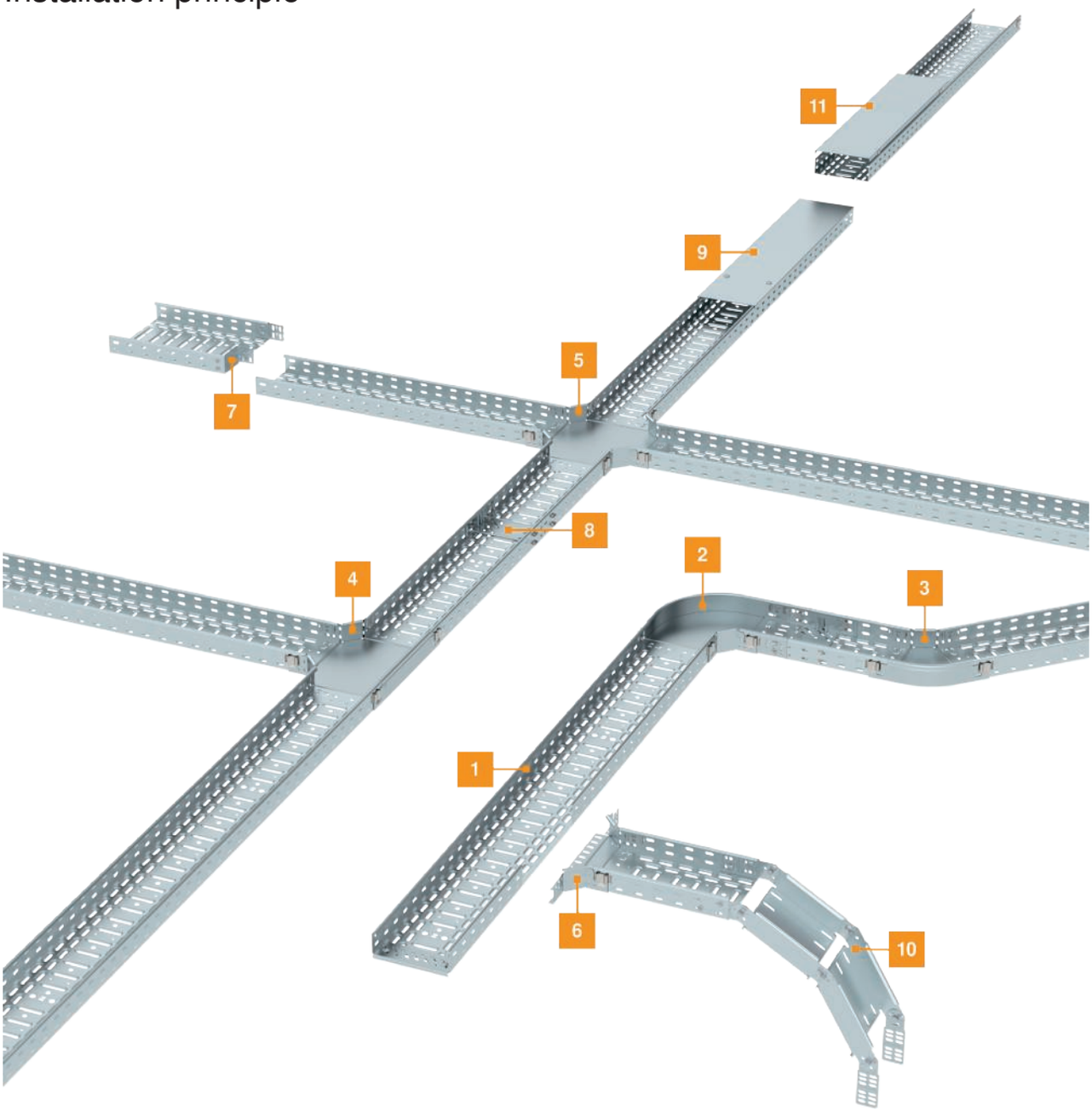
RKS cable tray system

Installation principle



1	RKS cable tray
2	90° bend
3	T branch piece
4	Cover with turn buckle
5	Unperforated cover with cover clamp

Installation principle



1	RKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp

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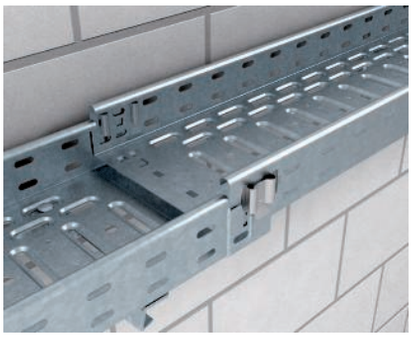
Mounting aid

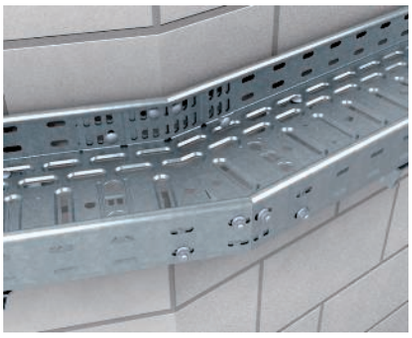


Straight connection, cable tray interconnection
The spring element of the cable tray to be connected is snapped into the spring seat of the preceding cable tray from above.

Cable tray fastening
The connected cable trays are fixed in place by bending the connection straps in the base with a screwdriver.

Slackening the connection
The straight connector can be released again at any time. To do this, push a screwdriver under the spring element to release the lock.

Mounting of Magic KTSMV straight connector set
To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.

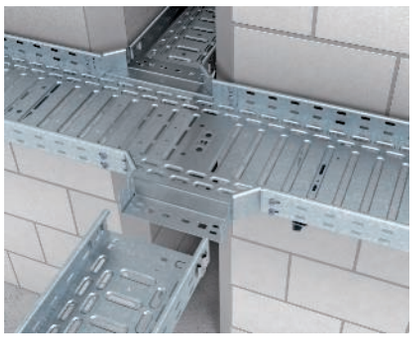


Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.

Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.

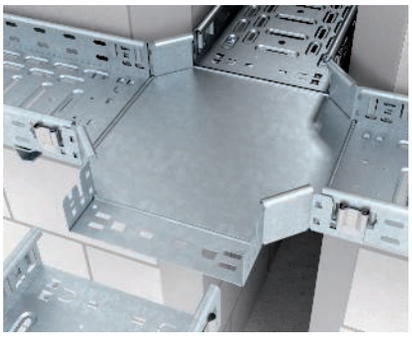
Width change and end closure
Illustration of a width change through the installation of the reducer. This component allows the implementation of an end closure of cable trays.

Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

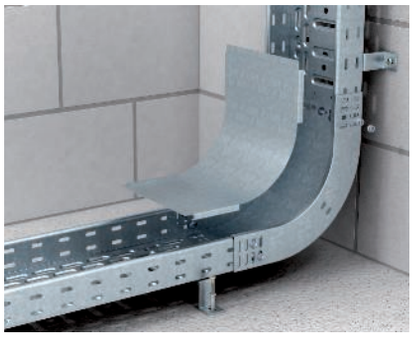


Mounting of Magic mounting/branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

Mounting of Magic vertical mounting/branch piece (bottom view)
Vertical mounting of the add-on tee as lengthwise funnel. Perforation in the cable tray is created on-site. For widths > 400 mm, please order connectors separately.



Mounting of Magic cross-over
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

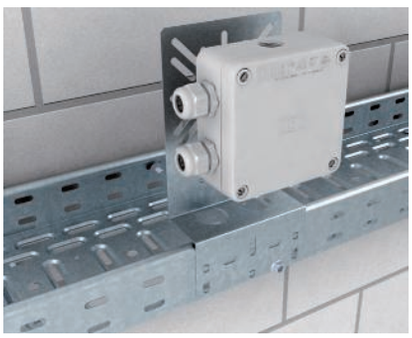


90° bend (rising/falling)
The 90° vertical bend is pushed over the rail of the cable tray and bolted with truss-head bolts, FRSB M6 x 12 mm. The cover is placed on loosely and fastened using the incoming cable tray covers. The cover clamp DKU can be used for additional fastening.

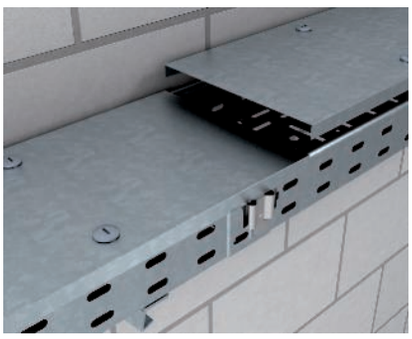
Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets or when changing from horizontal to vertical. The adjustable vertical bend is fastened to the cable tray directly using the adjustable connectors.

Installation of falling adjustable vertical bend
Installation of the adjustable vertical bend, falling, to bridge height differences and changes from the horizontal to the vertical.

Installation of bottom end plate
The bottom end plate is fastened to the end of the cable tray. It is used to protect outgoing cables.



Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the side rail of the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRSB 6x12 mm.



Installation of cover with turn buckle
The cover is fastened to the cable tray using turn-buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.

Screwless cover fastening with cover clamp
Screwless cover mounting takes place with unperforated covers and the cover clamps, type DK DRLU. The cover clamp is simply fixed in the rail of the cable tray.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Installation of cover for fitting
The fitting cover is fastened to the cable tray using turn buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.

Screwed barrier strip mounting
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

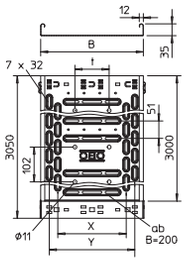
St FS

Cable tray RKS-Magic® 35

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

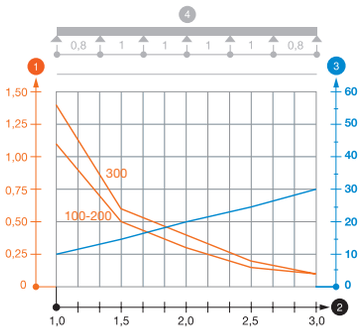
Type	Width mm	Metal thickness mm	Length mm	Weight kg/100 m	Item no.
RKSM 310 FS	100	0.75	3050	104.328	**6047417**
RKSM 320 FS	200	0.75	3050	155.738	**6047433**
RKSM 330 FS	300	0.75	3050	209.840	**6047460**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 310 FS	3050	100	33	–	50
RKSM 320 FS	3050	200	68	100	150
RKSM 330 FS	3050	300	103	200	250

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 310 FS	1.1	0.5	0.3	0.15
RKSM 320 FS	1.1	0.5	0.3	0.15
RKSM 330 FS	1.4	0.6	0.4	0.2

Load diagram, cable tray, type RKSM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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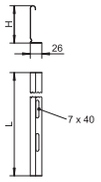
Cable trays, side height 35

Separating retainer 30

St FS DD

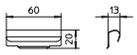


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

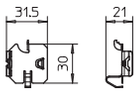


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening in RKSM

VA 2B

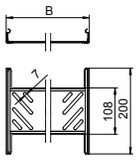


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KR A2	30	0.537	6062280

Hold-down clamp for screwless fastening of separating retainers in the cable tray types RKSM, MKS and SKS.

Magic straight connector set 35

St FS



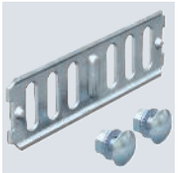
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 310 FS	35	100	1	22.700	6068900
KTSMV 320 FS	35	200	1	29.400	6068902
KTSMV 330 FS	35	300	1	36.100	6068904

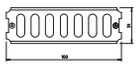
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 35 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight connector 35

St FS FT





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

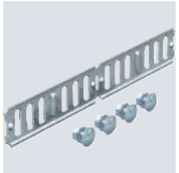
Straight connector for connections of cable trays and fittings with a side height of 35 mm.

Including appropriate fastening material.

St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	**6067107**
RWVL 35 FT	35	10	10.500	**6067328**

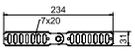


Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.

St FS

Adjustable connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	**7082002**

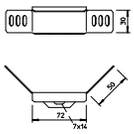


Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

St FS

Angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	**6043038**

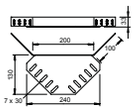


Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

St FS DD

Corner connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	**6067956**
REV 35 DD	35	1	24.800	**6069304**



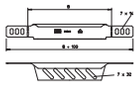
Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 35

Reducer/stop-end 35

St FS

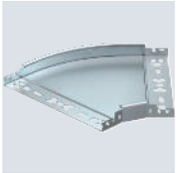


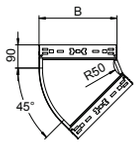
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	**7108109**
RWEB 320 FS	35	200	1	12.300	**7108206**
RWEB 330 FS	35	300	1	18.300	**7108311**

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

45° Magic bend 35

St FS



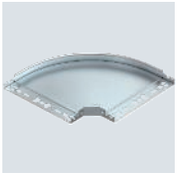


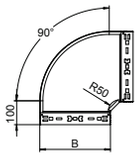
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 310 FS	35	100	1	40.800	**6041000**
RBM 45 320 FS	35	200	1	74.500	**6041002**
RBM 45 330 FS	35	300	1	114.600	**6041004**

45° bend with quick connector system. For all cable tray types of 35 mm side height.

90° Magic bend 35

St FS



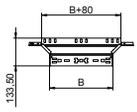


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 310 FS	35	100	1	53.700	**6041010**
RBM 90 320 FS	35	200	1	106.200	**6041012**
RBM 90 330 FS	35	300	1	173.000	**6041014**

90° bend with quick connector system. For all cable tray types of 35 mm side height.

Magic 35 add-on tee

St FS

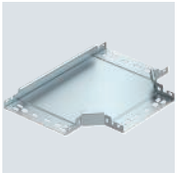


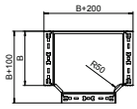
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 310 FS	35	100	1	30.700	**6041020**
RAAM 320 FS	35	200	1	43.400	**6041022**
RAAM 330 FS	35	300	1	56.300	**6041024**

Add-on tee with quick connector system. For all cable tray types of 35 mm side height.

Magic 35 tee

St FS



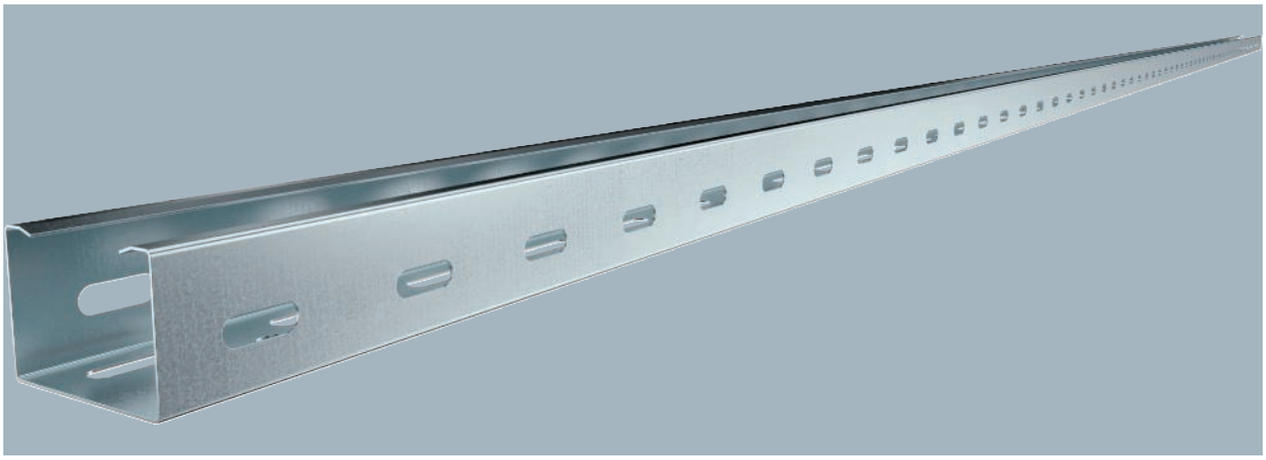


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 310 FS	35	100	1	69.400	**6041030**
RTM 320 FS	35	200	1	134.000	**6041032**
RTM 330 FS	35	300	1	216.600	**6041034**

T branch piece with quick connector system. For all cable tray types of 35 mm side height.

St FS

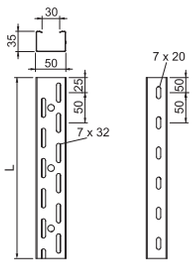
Cable tray RKS 35



RKS 35 = Rational cable tray system with 35 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

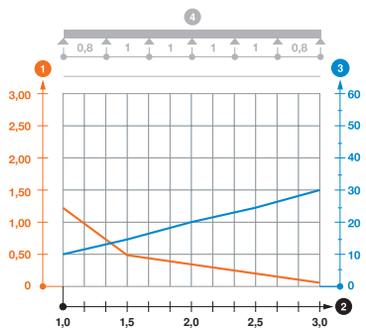
Type	Side height mm	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKS 305 FS	35	50	0.75		3	69.667	**6047410**

Dimensions



Type	Dim. L mm	Usable cross-section cm²
RKS 305 FS	3000	16

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKS 305 FS	1.2	0.5	0.3	0.1

Load diagram, cable tray, type RKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

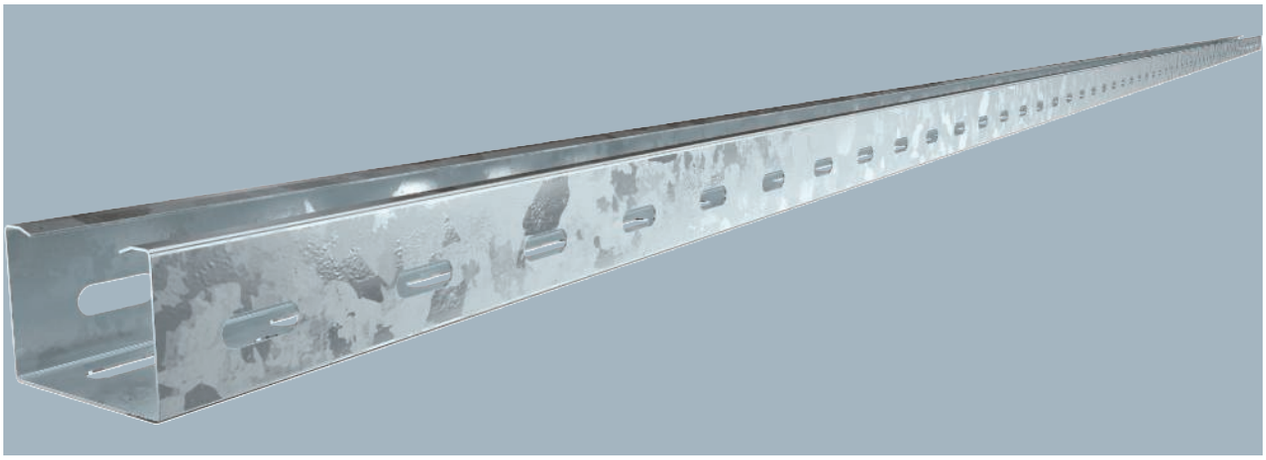
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 35

Cable tray RKS 35

St FT



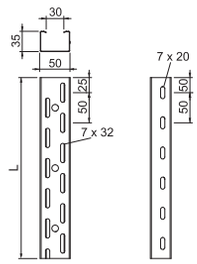
Type	Side height mm	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
RKS 305 FT	35	50	0.75		3	79.334	**6047412**

RKS 35 = Rational cable tray system with 35 mm side height.

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

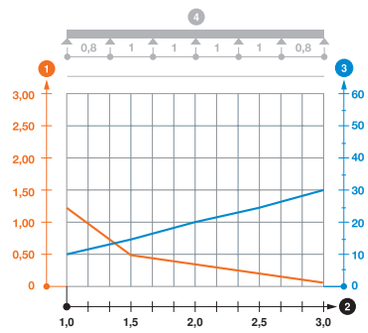
Type	Dim. L mm	Usable cross-section cm^2
RKS 305 FT	3000	16

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKS 305 FT	1.2	0.5	0.3	0.1

Load



Load diagram, cable tray, type RKS 35

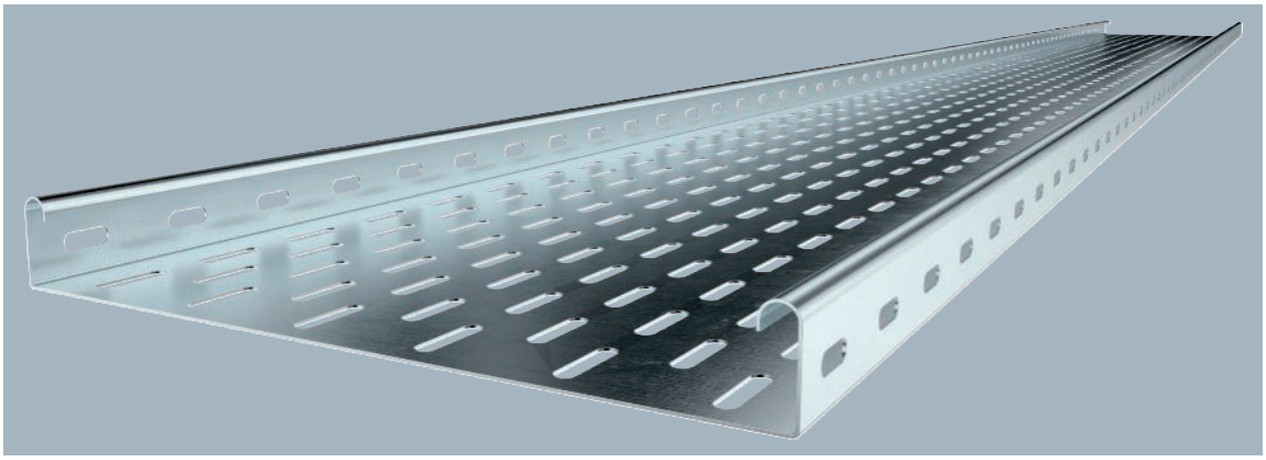
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

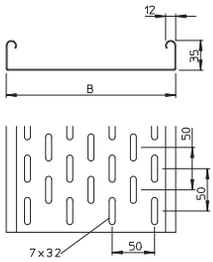
Cable tray MKS 35



MKS 35 = Medium duty cable tray system with a side height of 35 mm.
FS version includes RV 35 straight connector set.

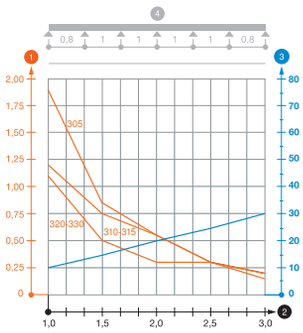
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKS 310 FS	100	1.00		3	144.134	**6053548**
MKS 315 FS	150	1.00		3	177.067	**6053572**
MKS 320 FS	200	1.00		3	210.034	**6053599**
MKS 330 FS	300	1.00		3	276.000	**6053637**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 310 FS	3000	100	33
MKS 315 FS	3000	150	50.5
MKS 320 FS	3000	200	68
MKS 330 FS	3000	300	103

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FS	1.2	0.75	0.55	0.3
MKS 315 FS	1.2	0.75	0.55	0.3
MKS 320 FS	1.1	0.5	0.3	0.3
MKS 330 FS	1.1	0.5	0.3	0.3

Load diagram, cable tray, type MKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

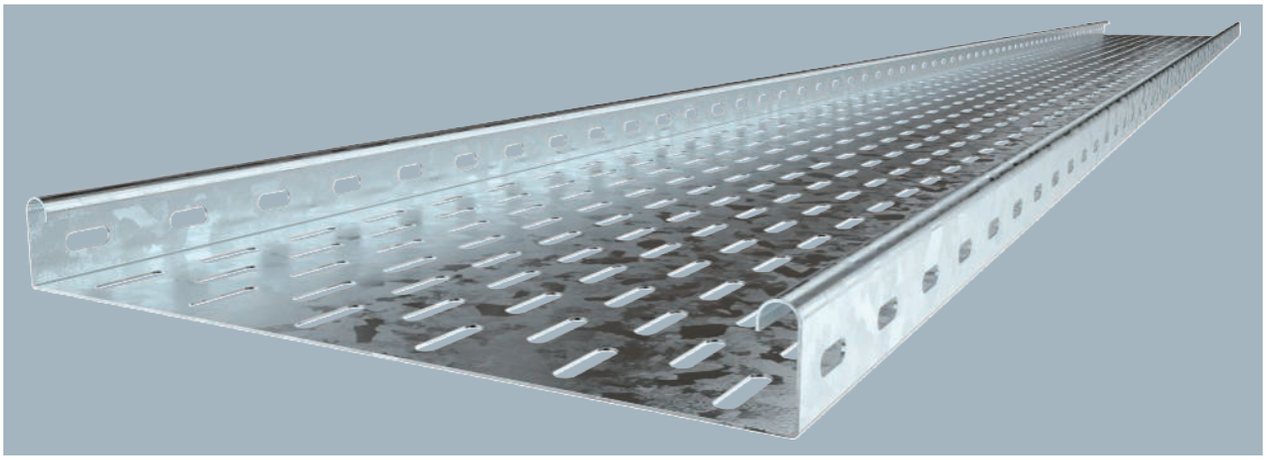
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 35

Cable tray MKS 35

St FT

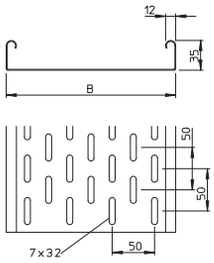


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 310 FT	100	1.00	3	153.000	**6053106**
MKS 315 FT	150	1.00	3	188.734	**6053165**
MKS 320 FT	200	1.00	3	225.834	**6053203**
MKS 330 FT	300	1.00	3	295.000	**6053300**

MKS 35 = Medium duty cable tray system with a side height of 35 mm.

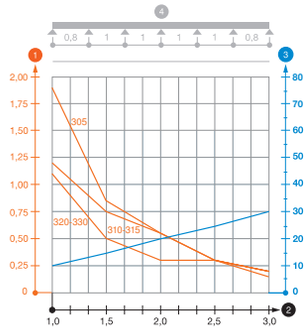
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 310 FT	3000	100	33
MKS 315 FT	3000	150	50.5
MKS 320 FT	3000	200	68
MKS 330 FT	3000	300	103

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FT	1.2	0.75	0.55	0.3
MKS 315 FT	1.2	0.75	0.55	0.3
MKS 320 FT	1.1	0.5	0.3	0.3
MKS 330 FT	1.1	0.5	0.3	0.3

Load



Load diagram, cable tray, type MKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

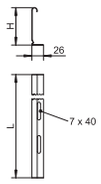
— Strut bend curve according to support width

St FS DD

Separating retainer 30

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

Separating retainer for separation of cables of different voltages or functions.

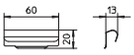


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

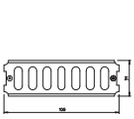


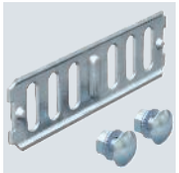
St FS FT

Straight connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

Straight connector for connections of cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.



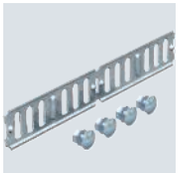


St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.

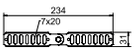


St FS FT

Adjustable connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	7082002
RGV 35 FT	35	10	11.000	7082126

Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

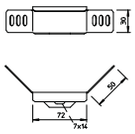


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 35

Angle connector 35

St FS

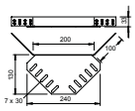


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	**6043038**

Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

Corner connector 35

St FS DD

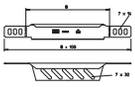


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	**6067956**
REV 35 DD	35	1	24.800	**6069304**

Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 35

St FS

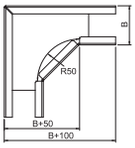


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	**7108109**
RWEB 320 FS	35	200	1	12.300	**7108206**
RWEB 330 FS	35	300	1	18.300	**7108311**

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

90° bend

St FS FT

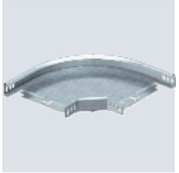


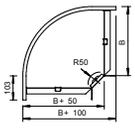
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 305 FS	35	50	1	31.100	**7124400**
RB 90 305 FT	35	50	1	32.900	**7124410**

90° bend for horizontal routing of cable trays, type RKS 305.

90° bend 35

St FS FT





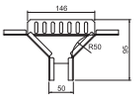
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 310 FS	35	100	1	31.100	**6043119**
RB 90 315 FS	35	150	1	65.000	**6043123**
RB 90 320 FS	35	200	1	64.300	**6043127**
RB 90 330 FS	35	300	1	112.300	**6043135**
RB 90 310 FT	35	100	1	48.000	**7124120**
RB 90 320 FT	35	200	1	98.000	**7124236**
RB 90 330 FT	35	300	1	150.000	**7124325**

90° bend, horizontal, for all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Mounting/branch piece 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 305 FS	35	50	1	24.440	**7120450**
RAA 305 FT	35	50	1	24.440	**7120458**

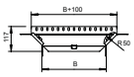


Add-on tee for the horizontal routing of cable trays, type RKS 305.

St FS FT

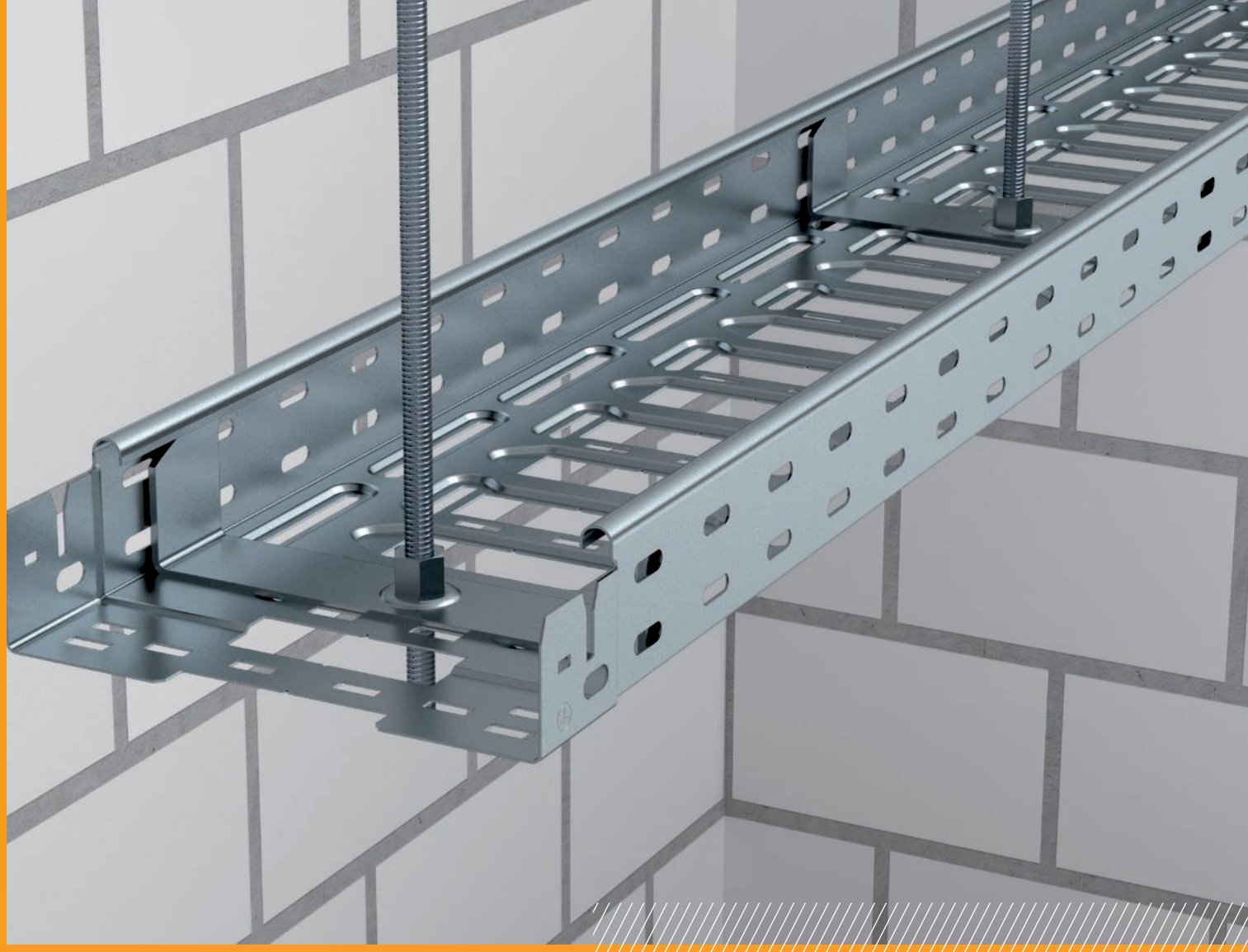
Add-on tee 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 310 FS	35	100	1	30.000	**6040322**
RAA 320 FS	35	200	1	35.000	**6040349**
RAA 330 FS	35	300	1	50.000	**6040357**
RAA 310 FT	35	100	1	33.000	**7120117**
RAA 315 FT	35	150	1	39.700	**7120140**
RAA 320 FT	35	200	1	38.000	**7120214**
RAA 330 FT	35	300	1	55.000	**7120311**



Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

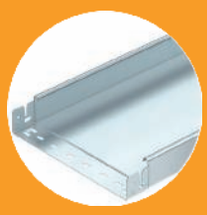


MKS-Magic® cable tray system

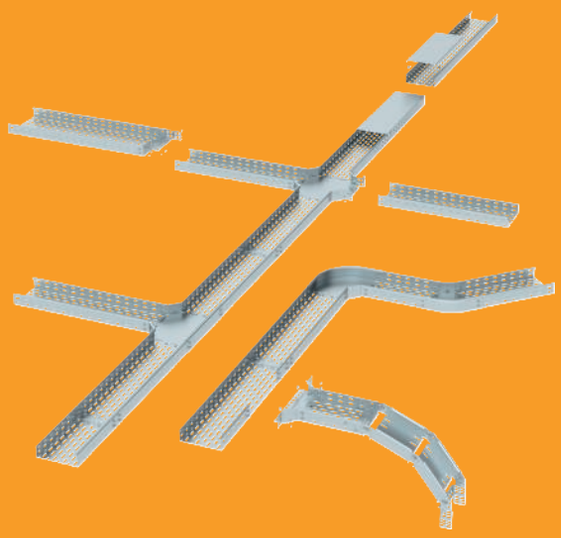
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm

MKS-Magic® cable tray

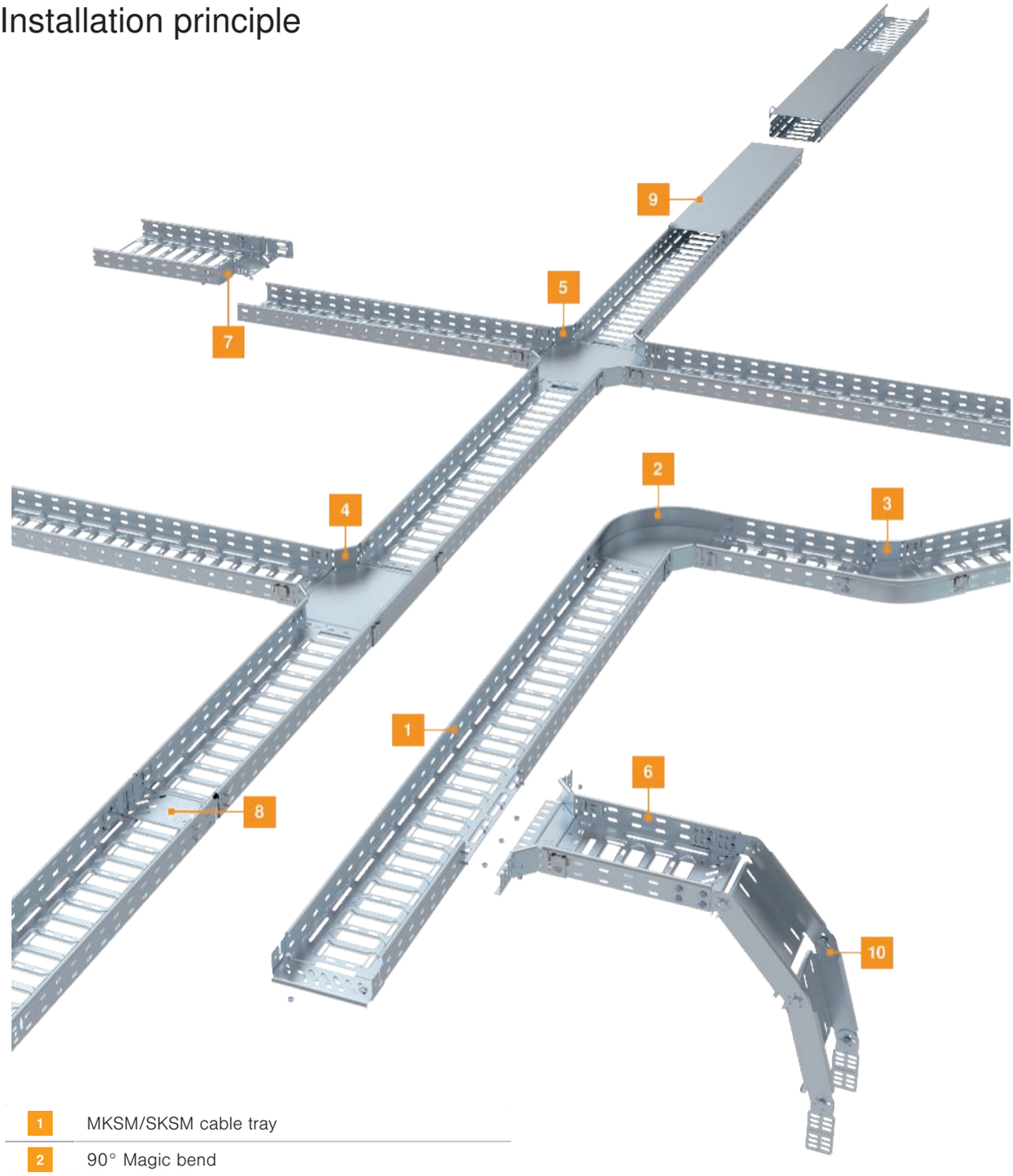


MKS-Magic® cable tray unperforated



MKS-Magic® cable tray system

Installation principle



1	MKSM/SKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element

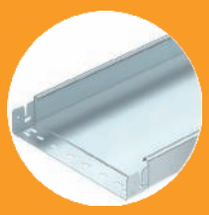
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

SKS-Magic® cable tray system

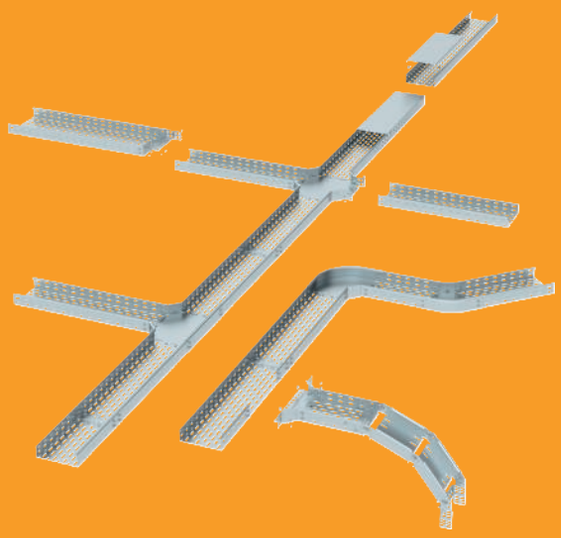
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm

Cable tray SKS-Magic®

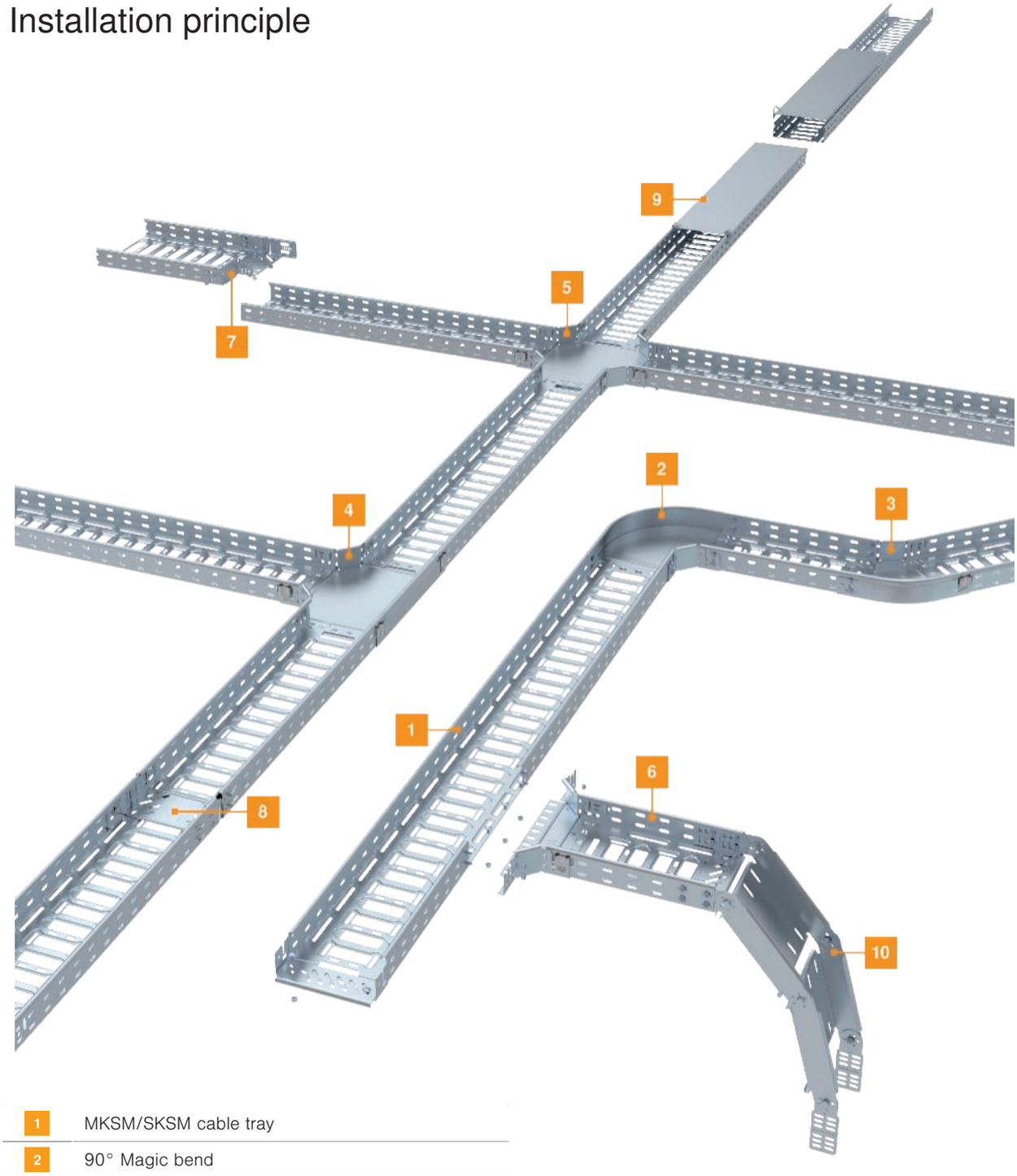


Cable tray SKS-Magic® unperforated



SKS-Magic® cable tray system

Installation principle

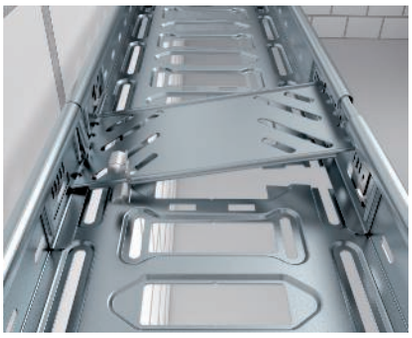


1	MKSM/SKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element

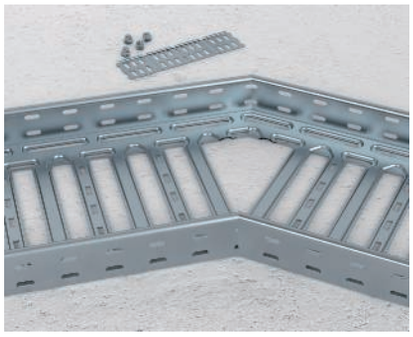
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

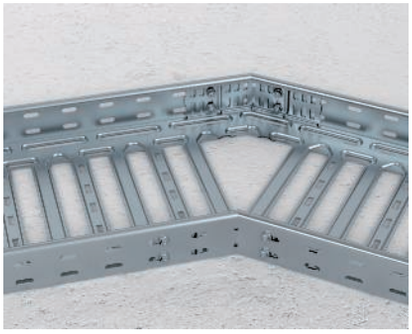
Mounting of Magic KTSMV straight connector set
Simply clamp the two side sections of the connector set in the side rail.



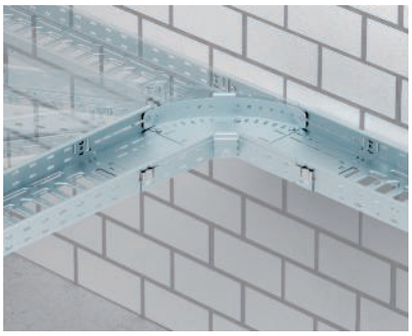
Mounting of Magic KTSMV straight connector set
Insert the corresponding joint plate, push it down and simply lock it in place. To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



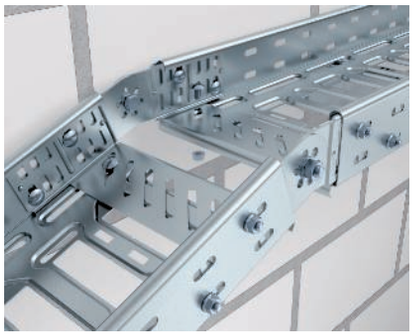
Change of direction by cutting the cable tray
Cut and bend the cable tray, then fix the cut rail with an angle connector, type RWVL.



Change of direction with separate cable trays
Combine the cut trays and fix them from the inside at the joint using angle connectors, type RWVL.

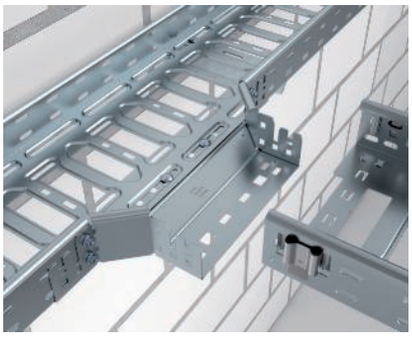


Creating a change of direction with the variable Magic bend
The variable Magic bend, type RBMV..., can be used to install infinitely variable direction changes of 0° – 90° to the route.

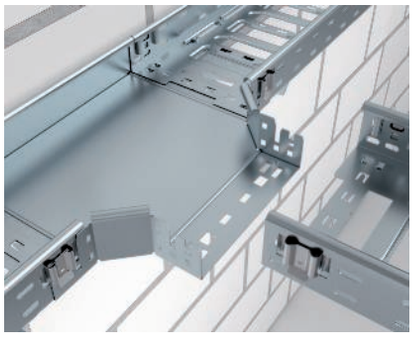


Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.

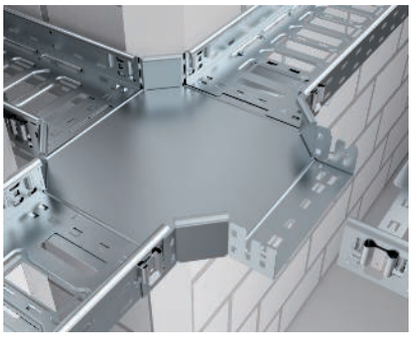
Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic mounting/branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic T branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



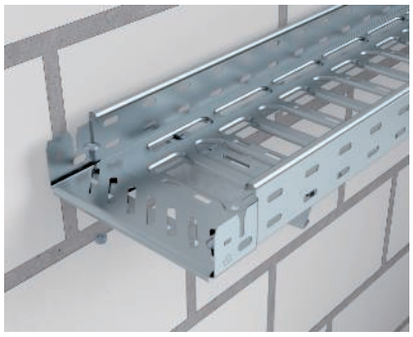
Mounting of Magic intersection
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.

90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.

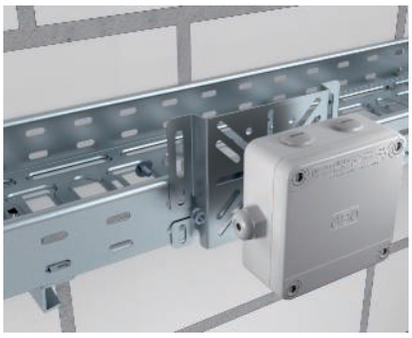
Installation of adjustable vertical bend element
Mounting of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.

Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.

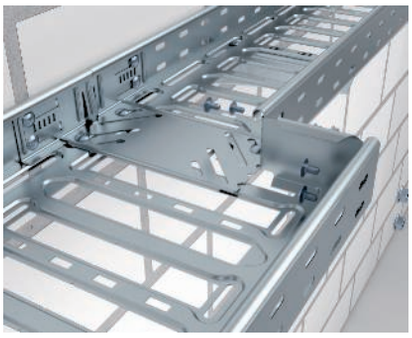
Screwless cover mounting
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



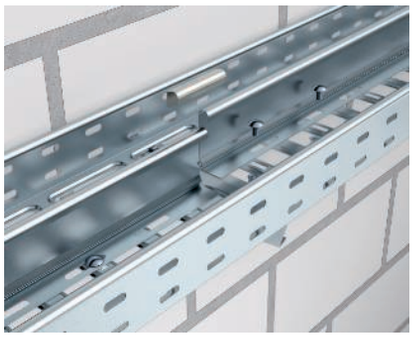
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



Universal mounting plate
Fastening of the mounting plate, type MP UNI, on the cable tray.



Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



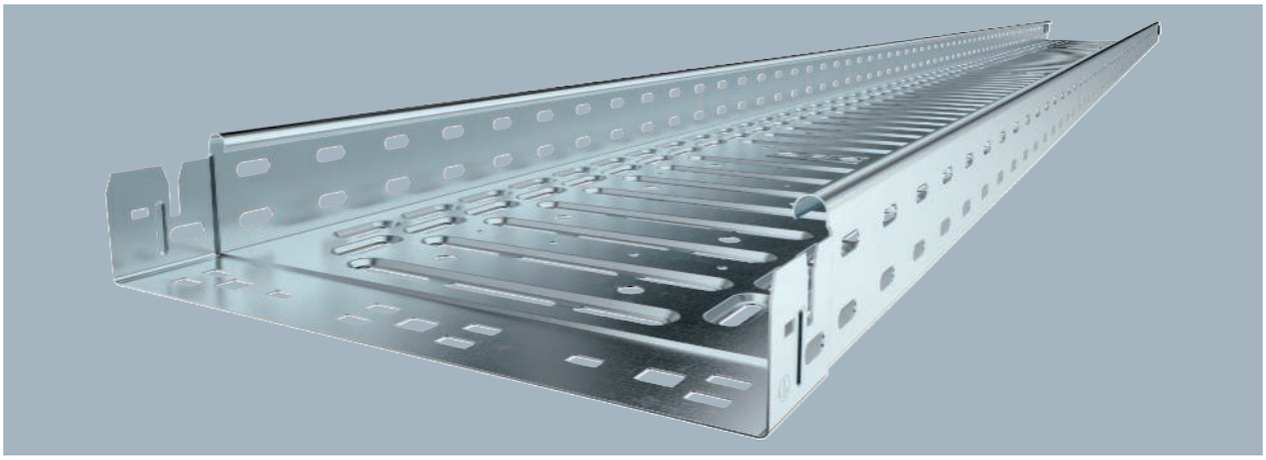
Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray RKS-Magic® 60

St FS

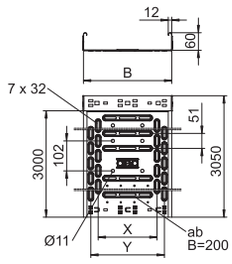


Type	Width mm	Metal thick-ness mm	BS	Pack m	Weight kg/100 m	Item no.
RKSM 610 FS	100	0.75		3	134.334	**6047611**
RKSM 615 FS	150	0.75		3	154.885	**6047630**
RKSM 620 FS	200	0.75		3	181.508	**6047638**
RKSM 630 FS	300	0.75		3	233.803	**6047654**
RKSM 640 FS	400	0.90		3	338.459	**6047689**
RKSM 650 FS	500	0.90		3	401.246	**6047719**
RKSM 660 FS	600	0.90		3	464.000	**6047735**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

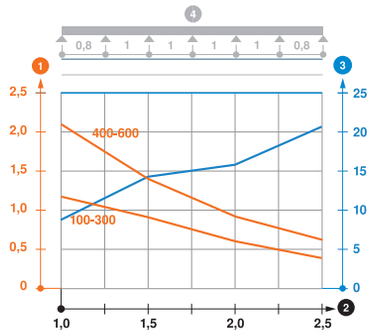
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dim-en-sion y mm
RKSM 610 FS	3050	100	58	–	50
RKSM 615 FS	3050	150	88	50	100
RKSM 620 FS	3050	200	118	100	150
RKSM 630 FS	3050	300	178	200	250
RKSM 640 FS	3050	400	238	300	350
RKSM 650 FS	3050	500	298	400	450
RKSM 660 FS	3050	600	358	450	550

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 FS	1.2	0.9	0.6	0.4	8AA
RKSM 615 FS	1.2	1	0.6	0.4	8AA
RKSM 620 FS	1.2	1	0.55	0.4	8AA
RKSM 630 FS	1.2	1	0.55	0.4	8AA
RKSM 640 FS	2.1	1.35	0.8	0.6	8AA
RKSM 650 FS	2.1	1.35	0.8	0.6	8AA
RKSM 660 FS	2.1	1.4	0.8	0.6	8AA

Load



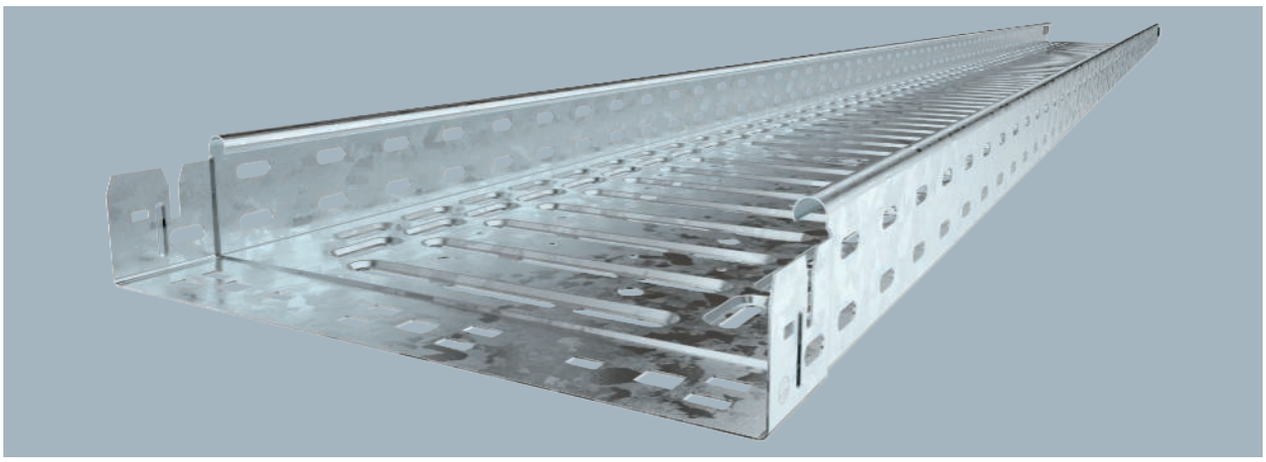
Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

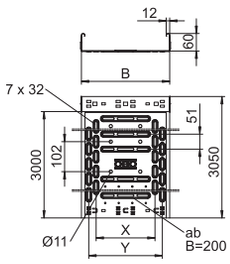
Cable tray RKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

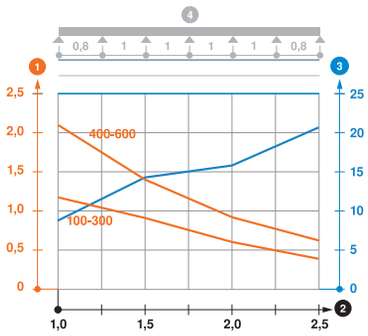
Type	Width mm	Metal thickness mm	BS	Pack m	Weight kg/100 m	Item no.
RKSM 610 FT	100	1.00		3	197.410	**6047612**
RKSM 615 FT	150	1.00		3	236.984	**6047631**
RKSM 620 FT	200	1.00		3	251.115	**6047639**
RKSM 630 FT	300	1.00		3	356.295	**6047655**
RKSM 640 FT	400	1.00		3	437.180	**6047690**
RKSM 650 FT	500	1.00		3	518.295	**6047720**
RKSM 660 FT	600	1.00		3	599.443	**6047736**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 610 FT	3050	100	58	–	50
RKSM 615 FT	3050	150	88	50	100
RKSM 620 FT	3050	200	118	100	150
RKSM 630 FT	3050	300	178	200	250
RKSM 640 FT	3050	400	238	300	350
RKSM 650 FT	3050	500	298	400	450
RKSM 660 FT	3050	600	358	450	550

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 FT	1.2	0.9	0.6	0.4	8AA
RKSM 615 FT	1.2	0.9	0.6	0.4	8AA
RKSM 620 FT	1.2	0.9	0.6	0.4	8AA
RKSM 630 FT	1.2	0.9	0.6	0.4	8AA
RKSM 640 FT	2.1	1.35	0.9	0.6	8AA
RKSM 650 FT	2.1	1.35	0.9	0.6	8AA
RKSM 660 FT	2.1	1.35	0.9	0.6	8AA

Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

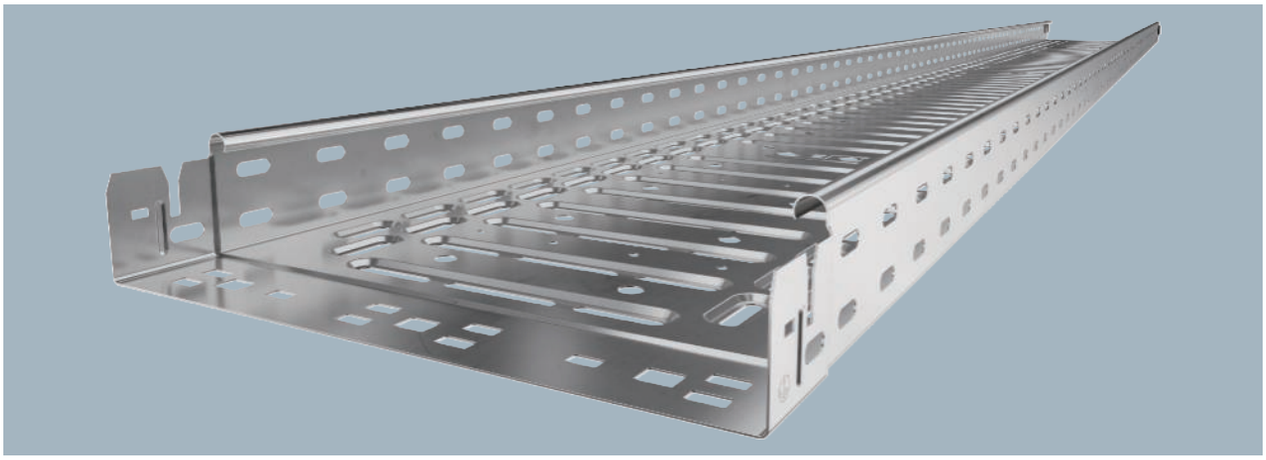
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray RKS-Magic® 60

VA 2B

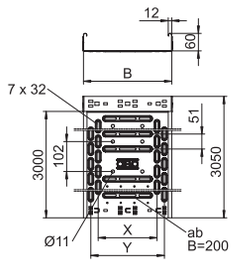


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKSM 610 A2	100	0.75	3	144.590	**6047613**
RKSM 620 A2	200	0.75	3	200.984	**6047640**
RKSM 630 A2	300	0.75	3	259.344	**6047656**
RKSM 640 A2	400	0.90	3	358.361	**6047691**
RKSM 650 A2	500	0.90	3	424.590	**6047721**
RKSM 660 A2	600	0.90	3	491.148	**6047737**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

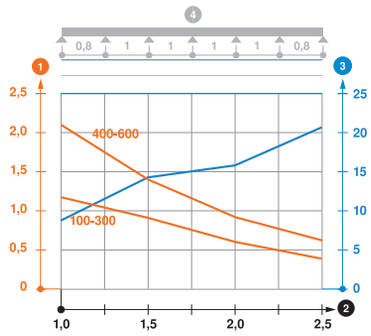
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 610 A2	3050	100	58	–	50
RKSM 620 A2	3050	200	118	100	150
RKSM 630 A2	3050	300	178	200	250
RKSM 640 A2	3050	400	238	300	350
RKSM 650 A2	3050	500	298	400	450
RKSM 660 A2	3050	600	358	450	550

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A2	1.2	0.9	0.6	0.4
RKSM 620 A2	1.2	0.9	0.6	0.4
RKSM 630 A2	1.2	0.9	0.6	0.4
RKSM 640 A2	2.1	1.35	0.9	0.6
RKSM 650 A2	2.1	1.35	0.9	0.6
RKSM 660 A2	2.1	1.35	0.9	0.6

Load



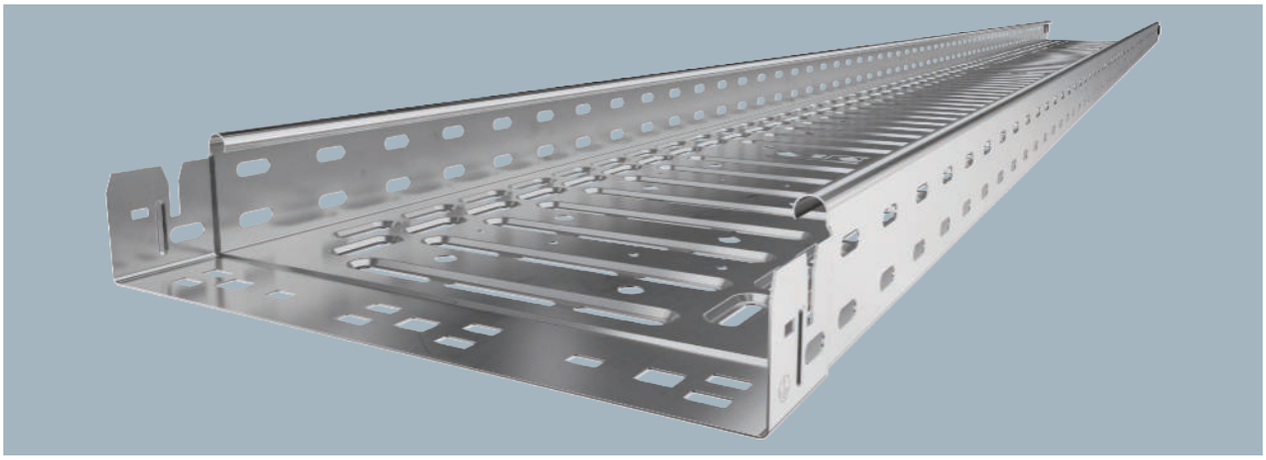
Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

VA 2B

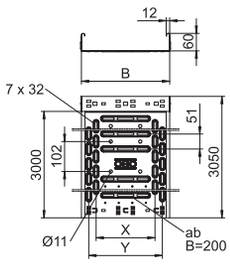
Cable tray RKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

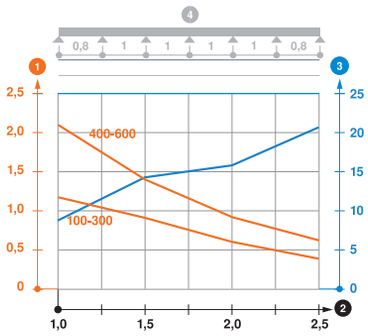
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
RKSM 610 A4	100	0.75	3	144.590	**6047614**
RKSM 620 A4	200	0.75	3	200.984	**6047641**
RKSM 630 A4	300	0.75	3	259.344	**6047657**
RKSM 640 A4	400	0.90	3	358.361	**6047692**
RKSM 650 A4	500	0.90	3	424.590	**6047722**
RKSM 660 A4	600	0.90	3	491.148	**6047738**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 610 A4	3050	100	58	–	50
RKSM 620 A4	3050	200	118	100	150
RKSM 630 A4	3050	300	178	200	250
RKSM 640 A4	3050	400	238	300	350
RKSM 650 A4	3050	500	298	400	450
RKSM 660 A4	3050	600	358	450	550

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A4	1.2	0.9	0.6	0.4
RKSM 620 A4	1.2	0.9	0.6	0.4
RKSM 630 A4	1.2	0.9	0.6	0.4
RKSM 640 A4	2.1	1.35	0.9	0.6
RKSM 650 A4	2.1	1.35	0.9	0.6
RKSM 660 A4	2.1	1.35	0.9	0.6

Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

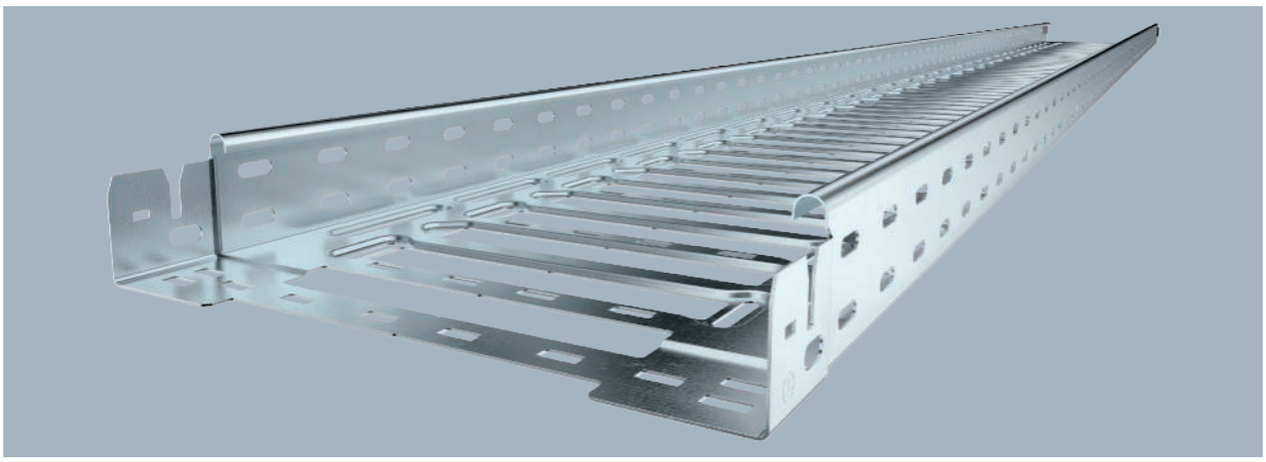
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray MKS-Magic® 60

St FS

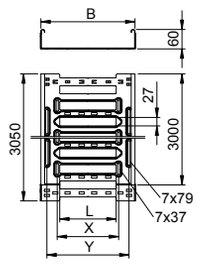


Type	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
MKSM 610 FS	100	1.00		3	166.032	**6059000**
MKSM 615 FS	150	1.00		3	200.983	**6059002**
MKSM 620 FS	200	1.00		3	219.344	**6059004**
MKSM 630 FS	300	1.00		3	256.721	**6059006**
MKSM 640 FS	400	1.00		3	298.262	**6059008**
MKSM 650 FS	500	1.00		3	331.475	**6059010**
MKSM 660 FS	600	1.00		3	368.852	**6059012**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

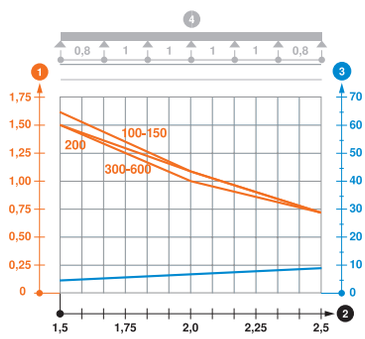
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 610 FS	3050	100	58	30	–	62
MKSM 615 FS	3050	150	88	30	46	112
MKSM 620 FS	3050	200	118	80	96	162
MKSM 630 FS	3050	300	178	180	196	262
MKSM 640 FS	3050	400	238	280	296	362
MKSM 650 FS	3050	500	298	380	396	462
MKSM 660 FS	3050	600	358	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FS	1.6	1.1	0.7
MKSM 615 FS	1.6	1.1	0.7
MKSM 620 FS	1.5	1.1	0.7
MKSM 630 FS	1.5	1	0.7
MKSM 640 FS	1.5	1	0.7
MKSM 650 FS	1.5	1	0.7
MKSM 660 FS	1.5	1	0.7

Load



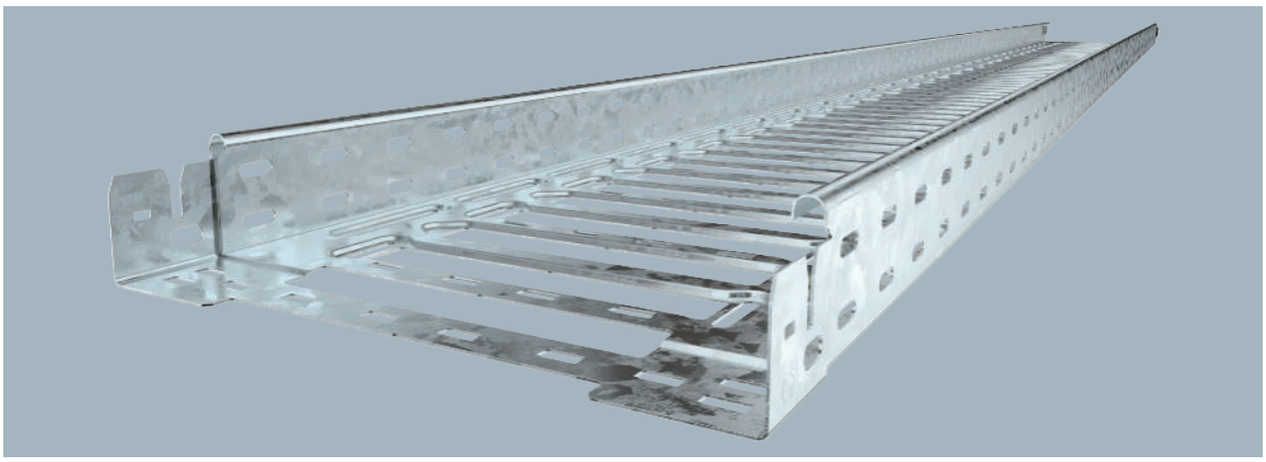
Load diagram, cable tray, type MKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

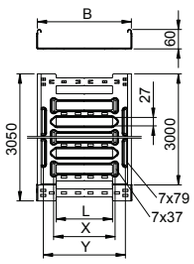
Cable tray MKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

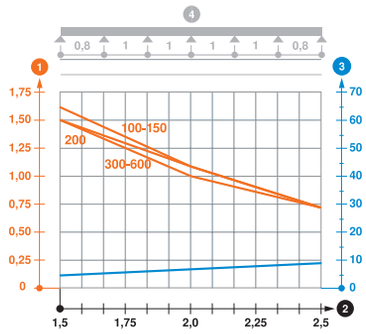
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 610 FT	100	1.00	3	182.557	**6059018**
MKSM 615 FT	150	1.00	3	219.016	**6059020**
MKSM 620 FT	200	1.00	3	239.344	**6059022**
MKSM 630 FT	300	1.00	3	280.000	**6059025**
MKSM 640 FT	400	1.00	3	327.967	**6059027**
MKSM 650 FT	500	1.00	3	361.311	**6059029**
MKSM 660 FT	600	1.00	3	402.295	**6059032**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 610 FT	3050	100	58	30	–	62
MKSM 615 FT	3050	150	88	30	46	112
MKSM 620 FT	3050	200	118	80	96	162
MKSM 630 FT	3050	300	178	180	196	262
MKSM 640 FT	3050	400	238	280	296	362
MKSM 650 FT	3050	500	298	380	396	462
MKSM 660 FT	3050	600	358	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FT	1.6	1.1	0.7
MKSM 615 FT	1.6	1.1	0.7
MKSM 620 FT	1.5	1.1	0.7
MKSM 630 FT	1.5	1	0.7
MKSM 640 FT	1.5	1	0.7
MKSM 650 FT	1.5	1	0.7
MKSM 660 FT	1.5	1	0.7

Load diagram, cable tray, type MKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray SKS-Magic® 60

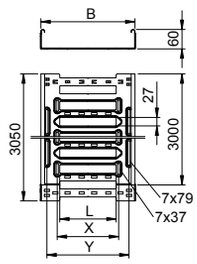
St FS

Type	Width mm	Metal thickness mm	BS		Pack m	Weight kg/100 m	Item no.
SKSM 610 FS	100	1.50			3	249.573	**6059456**
SKSM 615 FS	150	1.50			3	301.639	**6059458**
SKSM 620 FS	200	1.50			3	329.180	**6059460**
SKSM 630 FS	300	1.50			3	385.245	**6059462**
SKSM 640 FS	400	1.50			3	441.311	**6059464**
SKSM 650 FS	500	1.50			3	504.852	**6059466**
SKSM 660 FS	600	1.50			3	553.442	**6059468**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

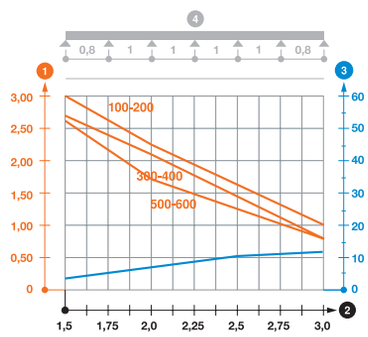
Dimensions

Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 610 FS	3050	100	58	30	–	62
SKSM 615 FS	3050	150	88	30	46	112
SKSM 620 FS	3050	200	118	80	96	162
SKSM 630 FS	3050	300	178	180	196	262
SKSM 640 FS	3050	400	238	280	296	362
SKSM 650 FS	3050	500	298	380	396	462
SKSM 660 FS	3050	600	358	480	496	562



Load

	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 FS	3	2.25	1
SKSM 615 FS	3	2.25	1
SKSM 620 FS	3	2.25	1
SKSM 630 FS	2.7	2.1	0.8
SKSM 640 FS	2.7	2.1	0.8
SKSM 650 FS	2.6	1.8	0.8
SKSM 660 FS	2.6	1.8	0.8



Load diagram, cable tray, type SKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

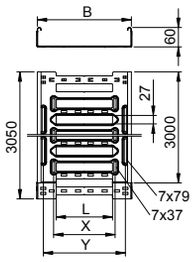
St FT

Cable tray SKS-Magic® 60

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

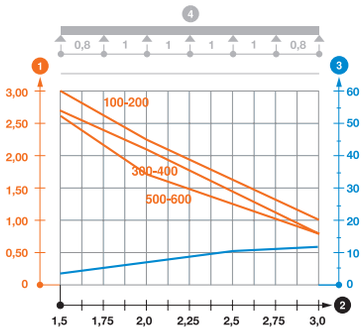
Type	Width mm	Metal thickness mm	BS	Pack m	Weight kg/100 m	Item no.
SKSM 610 FT	100	1.50		3	266.098	**6059473**
SKSM 615 FT	150	1.50		3	328.852	**6059475**
SKSM 620 FT	200	1.50		3	359.016	**6059477**
SKSM 630 FT	300	1.50		3	420.000	**6059479**
SKSM 640 FT	400	1.50		3	481.311	**6059481**
SKSM 650 FT	500	1.50		3	538.295	**6059483**
SKSM 660 FT	600	1.50		3	603.606	**6059485**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 610 FT	3050	100	58	30	–	62
SKSM 615 FT	3050	150	88	30	46	112
SKSM 620 FT	3050	200	118	80	96	162
SKSM 630 FT	3050	300	178	180	196	262
SKSM 640 FT	3050	400	238	280	296	362
SKSM 650 FT	3050	500	298	380	396	462
SKSM 660 FT	3050	600	358	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 FT	3	2.25	1
SKSM 615 FT	3	2.25	1
SKSM 620 FT	3	2.25	1
SKSM 630 FT	2.7	2.1	0.8
SKSM 640 FT	2.7	2.1	0.8
SKSM 650 FT	2.6	1.8	0.8
SKSM 660 FT	2.6	1.8	0.8

Load diagram, cable tray, type SKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray MKS-Magic® 60, unperforated

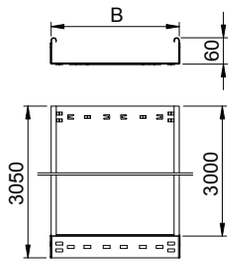
St FS

Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 FS	100	1.00	3	191.672	**6059230**
MKSMU 615 FS	150	1.00	3	230.852	**6059232**
MKSMU 620 FS	200	1.00	3	269.836	**6059234**
MKSMU 630 FS	300	1.00	3	348.459	**6059237**
MKSMU 640 FS	400	1.00	3	426.918	**6059239**
MKSMU 650 FS	500	1.00	3	505.311	**6059241**
MKSMU 660 FS	600	1.00	3	583.737	**6059243**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

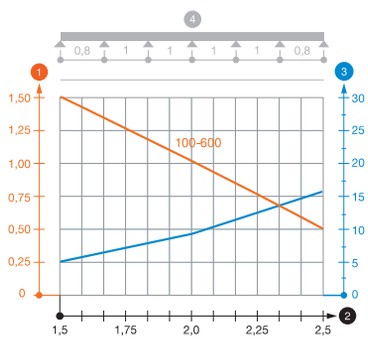
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 610 FS	3050	100	58
MKSMU 615 FS	3050	150	88
MKSMU 620 FS	3050	200	118
MKSMU 630 FS	3050	300	178
MKSMU 640 FS	3050	400	238
MKSMU 650 FS	3050	500	298
MKSMU 660 FS	3050	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FS	1.5	1	0.5
MKSMU 615 FS	1.5	1	0.5
MKSMU 620 FS	1.5	1	0.5
MKSMU 630 FS	1.5	1	0.5
MKSMU 640 FS	1.5	1	0.5
MKSMU 650 FS	1.5	1	0.5
MKSMU 660 FS	1.5	1	0.5

Load



Load diagram, cable tray, type MKSMU 60

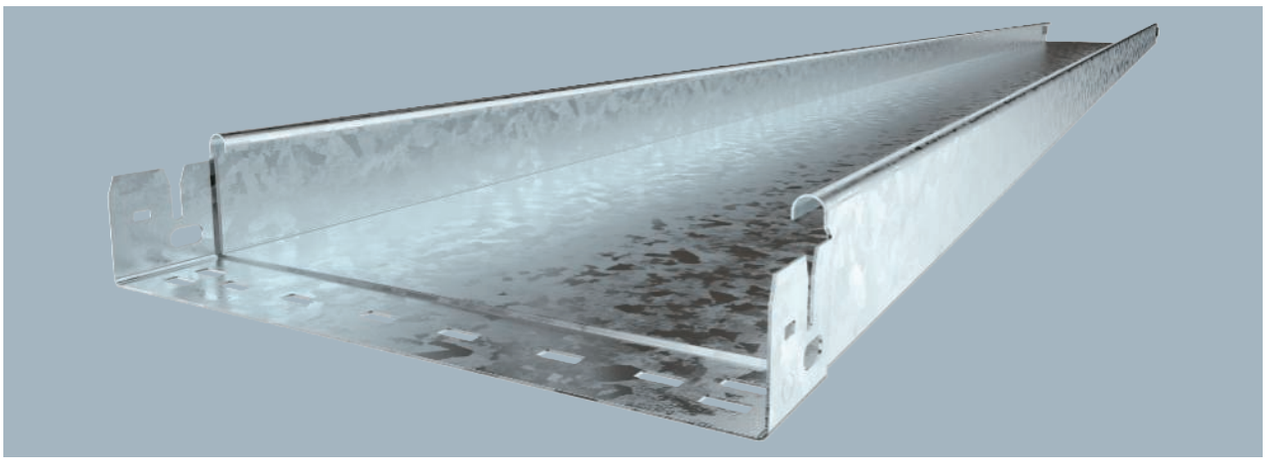
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

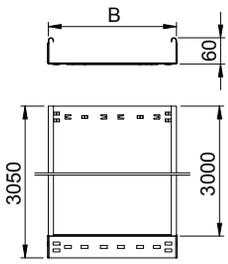
Cable tray MKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

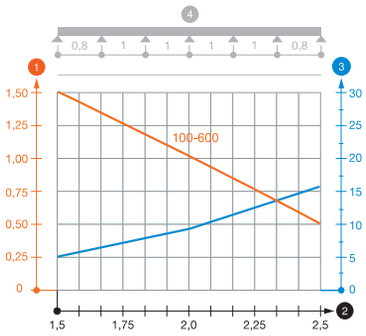
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 FT	100	1.00	3	210.688	**6059248**
MKSMU 615 FT	150	1.00	3	253.770	**6059250**
MKSMU 620 FT	200	1.00	3	296.819	**6059252**
MKSMU 630 FT	300	1.00	3	383.081	**6059254**
MKSMU 640 FT	400	1.00	3	469.311	**6059256**
MKSMU 650 FT	500	1.00	3	555.508	**6059258**
MKSMU 660 FT	600	1.00	3	641.770	**6059260**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 610 FT	3050	100	58
MKSMU 615 FT	3050	150	88
MKSMU 620 FT	3050	200	118
MKSMU 630 FT	3050	300	178
MKSMU 640 FT	3050	400	238
MKSMU 650 FT	3050	500	298
MKSMU 660 FT	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FT	1.5	1	0.5
MKSMU 615 FT	1.5	1	0.5
MKSMU 620 FT	1.5	1	0.5
MKSMU 630 FT	1.5	1	0.5
MKSMU 640 FT	1.5	1	0.5
MKSMU 650 FT	1.5	1	0.5
MKSMU 660 FT	1.5	1	0.5

Load diagram, cable tray, type MKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray SKS-Magic® 60, unperforated

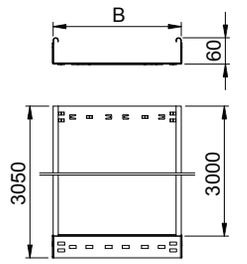
St FS

Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 FS	100	1.50	3	287.245	**6059688**
SKSMU 615 FS	150	1.50	3	346.032	**6059690**
SKSMU 620 FS	200	1.50	3	404.786	**6059692**
SKSMU 630 FS	300	1.50	3	522.426	**6059694**
SKSMU 640 FS	400	1.50	3	640.065	**6059696**
SKSMU 650 FS	500	1.50	3	757.704	**6059698**
SKSMU 660 FS	600	1.50	3	875.377	**6059700**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

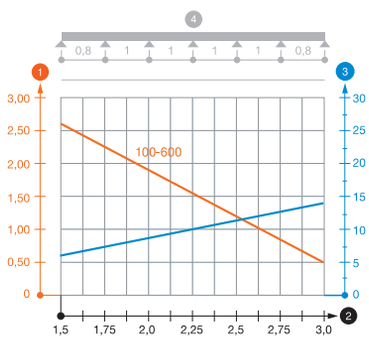
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 FS	3050	100	58
SKSMU 615 FS	3050	150	88
SKSMU 620 FS	3050	200	118
SKSMU 630 FS	3050	300	178
SKSMU 640 FS	3050	400	238
SKSMU 650 FS	3050	500	298
SKSMU 660 FS	3050	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FS	2.6	1.9	1.1	0.55
SKSMU 615 FS	2.6	1.9	1.1	0.55
SKSMU 620 FS	2.6	1.9	1.1	0.55
SKSMU 630 FS	2.6	1.9	1.1	0.55
SKSMU 640 FS	2.6	1.9	1.1	0.55
SKSMU 650 FS	2.6	1.9	1.1	0.55
SKSMU 660 FS	2.6	1.9	1.1	0.55

Load



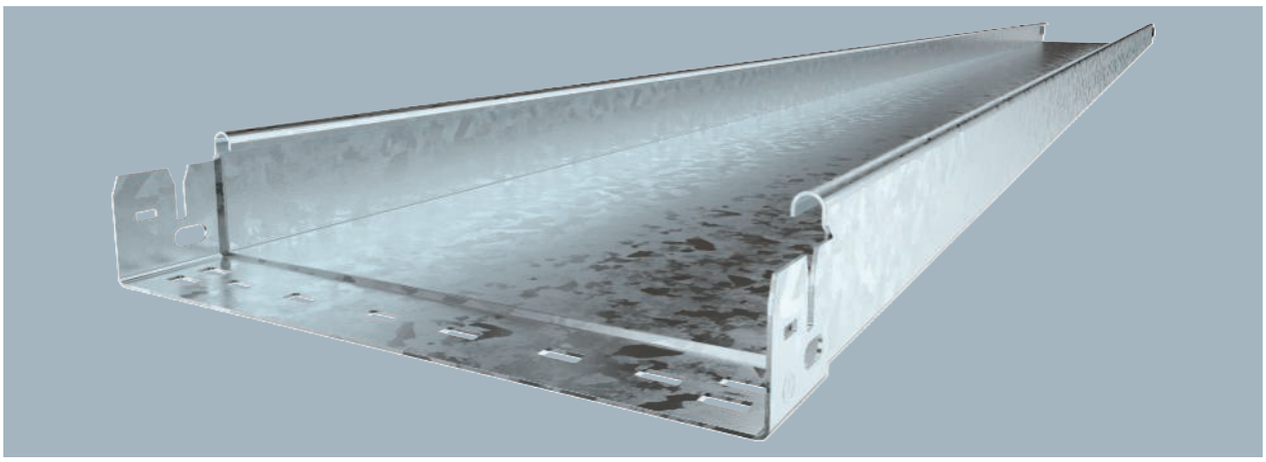
Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

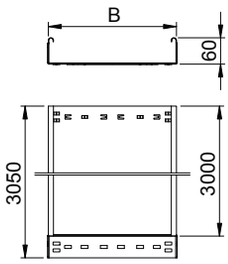
Cable tray SKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

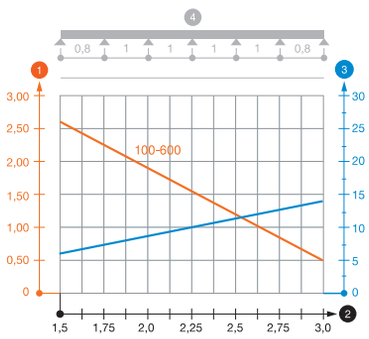
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 FT	100	1.50	3	306.262	**6059705**
SKSMU 615 FT	150	1.50	3	368.950	**6059707**
SKSMU 620 FT	200	1.50	3	431.573	**6059709**
SKSMU 630 FT	300	1.50	3	557.049	**6059711**
SKSMU 640 FT	400	1.50	3	682.491	**6059713**
SKSMU 650 FT	500	1.50	3	807.934	**6059715**
SKSMU 660 FT	600	1.50	3	933.377	**6059717**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 FT	3050	100	58
SKSMU 615 FT	3050	150	88
SKSMU 620 FT	3050	200	118
SKSMU 630 FT	3050	300	178
SKSMU 640 FT	3050	400	238
SKSMU 650 FT	3050	500	298
SKSMU 660 FT	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FT	2.6	1.9	1.1	0.55
SKSMU 615 FT	2.6	1.9	1.1	0.55
SKSMU 620 FT	2.6	1.9	1.1	0.55
SKSMU 630 FT	2.6	1.9	1.1	0.55
SKSMU 640 FT	2.6	1.9	1.1	0.55
SKSMU 650 FT	2.6	1.9	1.1	0.55
SKSMU 660 FT	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray SKS-Magic® 60, unperforated

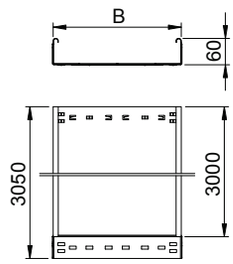
VA 2B

Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 A2	100	1.50	3	292.033	**6059722**
SKSMU 620 A2	200	1.50	3	411.533	**6059726**
SKSMU 630 A2	300	1.50	3	531.133	**6059728**
SKSMU 640 A2	400	1.50	3	650.733	**6059730**
SKSMU 650 A2	500	1.50	3	770.333	**6059732**
SKSMU 660 A2	600	1.50	3	889.967	**6059734**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

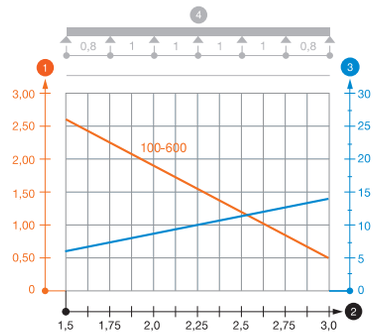
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 A2	3050	100	58
SKSMU 620 A2	3050	200	118
SKSMU 630 A2	3050	300	178
SKSMU 640 A2	3050	400	238
SKSMU 650 A2	3050	500	298
SKSMU 660 A2	3050	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 A2	2.6	1.9	1.1	0.55
SKSMU 620 A2	2.6	1.9	1.1	0.55
SKSMU 630 A2	2.6	1.9	1.1	0.55
SKSMU 640 A2	2.6	1.9	1.1	0.55
SKSMU 650 A2	2.6	1.9	1.1	0.55
SKSMU 660 A2	2.6	1.9	1.1	0.55

Load



Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

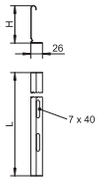
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS DD

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**

Separating retainer for separation of cables of different voltages or functions.

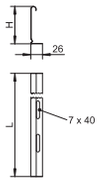


VA VA 2B

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**
TSG 45 A4	45	0.75	3000	3	49.850	**6062028**

Separating retainer for separation of cables of different voltages or functions.

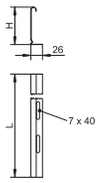


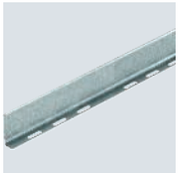
St FS DD

Separating retainer 60

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**

Separating retainer for separation of cables of different voltages or functions.



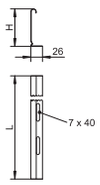


VA VA 2B

Separating retainer 60

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 A2	60	0.75	3000	3	59.265	**6062084**
TSG 60 A4	60	0.75	3000	3	59.256	**6062086**

Separating retainer for the separation of cables of different voltages or functions.

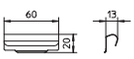


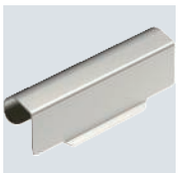
VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



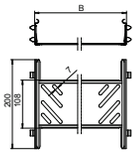


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Magic straight connector set 60

St FS DD



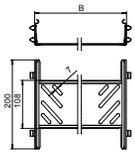
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 610 FS	60	100	1	30.500	6068914
KTSMV 615 FS	60	150	1	34.900	6068916
KTSMV 620 FS	60	200	1	37.200	6068918
KTSMV 630 FS	60	300	1	44.000	6068920
KTSMV 640 FS	60	400	1	50.700	6068922
KTSMV 650 FS	60	500	1	57.400	6068924
KTSMV 660 FS	60	600	1	64.200	6068926
KTSMV 610 DD	60	100	1	30.500	6068936
KTSMV 615 DD	60	150	1	34.900	6068938
KTSMV 620 DD	60	200	1	37.200	6068940
KTSMV 630 DD	60	300	1	44.000	6068942
KTSMV 640 DD	60	400	1	50.700	6068944
KTSMV 650 DD	60	500	1	57.400	6068946
KTSMV 660 DD	60	600	1	64.200	6068948

Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Magic straight connector set 60

VA VA 2B



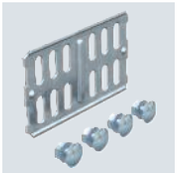
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 610 A2	60	100	1	30.500	6068958
KTSMV 615 A2	60	150	1	34.900	6068960
KTSMV 620 A2	60	200	1	37.200	6068962
KTSMV 630 A2	60	300	1	44.000	6068964
KTSMV 640 A2	60	400	1	50.700	6068966
KTSMV 650 A2	60	500	1	57.400	6068968
KTSMV 660 A2	60	600	1	64.200	6068970
KTSMV 610 A4	60	100	1	30.500	6068980
KTSMV 615 A4	60	150	1	34.900	6068982
KTSMV 620 A4	60	200	1	37.200	6068984
KTSMV 630 A4	60	300	1	44.000	6068986
KTSMV 640 A4	60	400	1	50.700	6068988
KTSMV 650 A4	60	500	1	57.400	6068990
KTSMV 660 A4	60	600	1	64.200	6068992

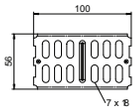
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 60 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight connector 60

St FS FT





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FS	60	10	9.976	6067093
RLVK 60 FT	60	10	10.300	6067603

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.

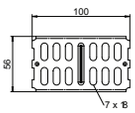
Including appropriate fastening material.

VA VA 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	**6067654**
RLVK 60 A4	60	10	9.780	**6067675**

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

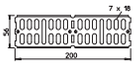


St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	**6067115**
RWVL 60 FT	60	10	17.400	**6067611**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

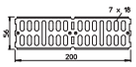


VA VA 2B

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	**6067662**
RWVL 60 A4	60	10	16.200	**6067664**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

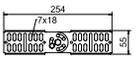


St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	**7082010**
RGV 60 FT	60	10	26.100	**7082223**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

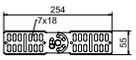


VA VA 2B

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	**7082258**
RGV 60 A4	60	10	25.100	**7082265**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

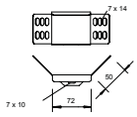


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Angle connector 60

St FS FT

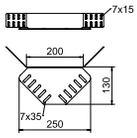


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	**6043062**
WKV 60 FT	60	5	15.800	**6042910**

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD

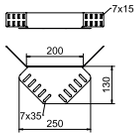


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	**6067972**
REV 60 DD	60	1	32.000	**6069410**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Corner connector 60

VA VA 2B

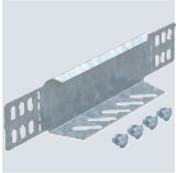


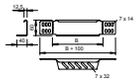
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	**6068022**
REV 60 A4	60	5	32.000	**6068054**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 60

St FS DD





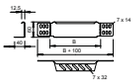
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	**7109105**
RWEB 615 FS	60	150	1	17.600	**7109156**
RWEB 620 FS	60	200	1	22.800	**7109202**
RWEB 630 FS	60	300	1	30.700	**7109296**
RWEB 640 FS	60	400	1	39.600	**7109407**
RWEB 650 FS	60	500	1	47.500	**7109504**
RWEB 660 FS	60	600	1	55.500	**7109601**
RWEB 610 DD	60	100	1	12.300	**7106106**
RWEB 615 DD	60	150	1	17.900	**7106110**
RWEB 620 DD	60	200	1	22.600	**7106114**
RWEB 630 DD	60	300	1	30.700	**7106118**
RWEB 640 DD	60	400	1	39.600	**7106122**
RWEB 650 DD	60	500	1	47.500	**7106126**
RWEB 660 DD	60	600	1	55.500	**7106130**

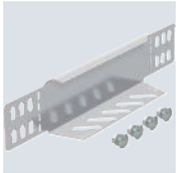
Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

VA 2B

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A2	60	100	1	12.500	**7109814**
RWEB 615 A2	60	150	1	18.000	**7109816**
RWEB 620 A2	60	200	1	22.900	**7109830**
RWEB 630 A2	60	300	1	31.200	**7109857**
RWEB 640 A2	60	400	1	37.300	**7109873**
RWEB 650 A2	60	500	1	48.100	**7109903**
RWEB 660 A2	60	600	1	56.100	**7109938**





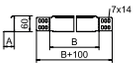
Reducer/stop-end plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

VA 2B

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A4	60	95	1	13.200	**7109951**
RWEB 620 A4	60	195	1	24.000	**7109953**
RWEB 630 A4	60	295	1	32.100	**7109955**
RWEB 640 A4	60	395	1	41.300	**7109957**
RWEB 650 A4	60	495	1	49.400	**7109959**
RWEB 660 A4	60	595	1	57.400	**7109961**



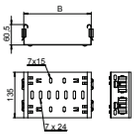
Reducer and end closure plate for cable trays with side height 60 mm.

From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

St DD

Magic 60 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 610 DD	60	100	1	31.900	**6065710**
FVM 615 DD	60	150	1	37.900	**6065712**
FVM 620 DD	60	200	1	44.000	**6065714**
FVM 630 DD	60	300	1	57.000	**6065716**
FVM 640 DD	60	400	1	69.400	**6065718**
FVM 650 DD	60	500	1	82.000	**6065720**
FVM 660 DD	60	600	1	94.600	**6065722**



The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

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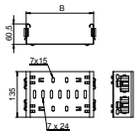
Cable trays, side height 60

Magic 60 fitting connector

VA VA 2B



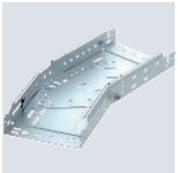
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 610 A2	60	100	1	31.900	**6065730**
FVM 615 A2	60	150	1	37.900	**6065732**
FVM 620 A2	60	200	1	44.000	**6065734**
FVM 630 A2	60	300	1	57.000	**6065736**
FVM 640 A2	60	400	1	69.400	**6065738**
FVM 650 A2	60	500	1	82.000	**6065740**
FVM 660 A2	60	600	1	94.600	**6065742**
FVM 610 A4	60	100	1	31.900	**6065750**
FVM 615 A4	60	150	1	37.900	**6065752**
FVM 620 A4	60	200	1	44.000	**6065754**
FVM 630 A4	60	300	1	57.000	**6065756**
FVM 640 A4	60	400	1	69.400	**6065758**
FVM 650 A4	60	500	1	82.000	**6065760**
FVM 660 A4	60	600	1	94.600	**6065762**

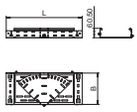
The fitting connector is compatible with cable tray types RKSM, MKSM, MKSMU, SKSM and SKSMU.

Magic straight connector for direct and screwless joining of Magic fittings with a side height of 60 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

Magic 60 bend, variable

St FS FT



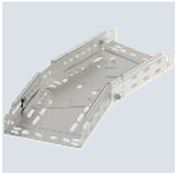


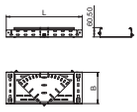
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 610 FS	60	100	340	1	76.400	**6040480**
RBMV 615 FS	60	150	420	1	117.100	**6040482**
RBMV 620 FS	60	200	490	1	163.600	**6040484**
RBMV 630 FS	60	300	640	1	291.700	**6040486**
RBMV 640 FS	60	400	820	1	578.000	**6040488**
RBMV 650 FS	60	500	960	1	986.000	**6040490**
RBMV 660 FS	60	600	1120	1	1,347.200	**6040492**
RBMV 610 FT	60	100	340	1	83.700	**6040500**
RBMV 615 FT	60	150	420	1	128.900	**6040502**
RBMV 620 FT	60	200	490	1	179.500	**6040504**
RBMV 630 FT	60	300	640	1	386.300	**6040506**
RBMV 640 FT	60	400	820	1	614.000	**6040508**
RBMV 650 FT	60	500	960	1	1,083.700	**6040510**
RBMV 660 FT	60	600	1120	1	1,480.900	**6040512**

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

Magic 60 bend, variable

VA VA 2B





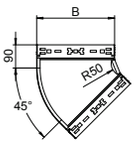
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 610 A2	60	100	340	1	76.400	**6040520**
RBMV 620 A2	60	200	490	1	163.600	**6040524**
RBMV 630 A2	60	300	640	1	386.300	**6040526**
RBMV 640 A2	60	400	820	1	578.000	**6040528**
RBMV 650 A2	60	500	960	1	986.000	**6040530**
RBMV 660 A2	60	600	1120	1	1,347.200	**6040532**
RBMV 610 A4	60	100	340	1	76.100	**6040540**
RBMV 615 A4	60	150	420	1	117.100	**6040542**
RBMV 620 A4	60	200	490	1	163.200	**6040544**
RBMV 630 A4	60	300	640	1	360.200	**6040546**
RBMV 640 A4	60	400	820	1	577.600	**6040548**
RBMV 650 A4	60	500	960	1	986.500	**6040550**
RBMV 660 A4	60	600	1120	1	1,346.800	**6040552**

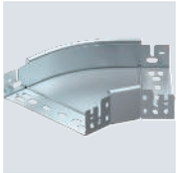
Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

45° Magic bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 610 FS	60	100	1	50.400	6041040
RBM 45 615 FS	60	150	1	67.300	6041042
RBM 45 620 FS	60	200	1	85.500	6041044
RBM 45 630 FS	60	300	1	127.700	6041046
RBM 45 640 FS	60	400	1	174.800	6041048
RBM 45 650 FS	60	500	1	232.700	6041050
RBM 45 660 FS	60	600	1	298.300	6041052
RBM 45 610 FT	60	100	1	54.000	6041060
RBM 45 615 FT	60	150	1	72.200	6041062
RBM 45 620 FT	60	200	1	92.400	6041064
RBM 45 630 FT	60	300	1	137.800	6041066
RBM 45 640 FT	60	400	1	189.100	6041068
RBM 45 650 FT	60	500	1	249.500	6041070
RBM 45 660 FT	60	600	1	319.900	6041072



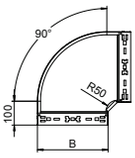


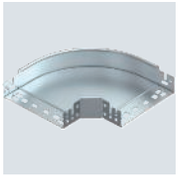
45° bend with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

90° Magic bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 FS	60	100	1	65.700	6041130
RBM 90 615 FS	60	150	1	91.900	6041132
RBM 90 620 FS	60	200	1	121.900	6041134
RBM 90 630 FS	60	300	1	192.200	6041136
RBM 90 640 FS	60	400	1	274.700	6041138
RBM 90 650 FS	60	500	1	376.300	6041140
RBM 90 660 FS	60	600	1	487.000	6041142
RBM 90 610 FT	60	100	1	70.700	6041150
RBM 90 615 FT	60	150	1	99.300	6041152
RBM 90 620 FT	60	200	1	131.300	6041154
RBM 90 630 FT	60	300	1	207.500	6041156
RBM 90 640 FT	60	400	1	296.300	6041158
RBM 90 650 FT	60	500	1	406.300	6041160
RBM 90 660 FT	60	600	1	532.300	6041162



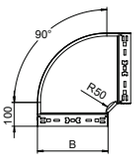


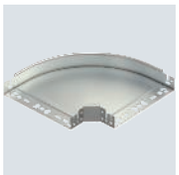
90° bend with quick connector system. For all cable tray types of 60 mm side height.

VA VA 2B

90° Magic bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 A2	60	100	1	65.700	6041180
RBM 90 615 A2	60	150	1	91.900	6041182
RBM 90 620 A2	60	200	1	121.900	6041184
RBM 90 630 A2	60	300	1	192.200	6041186
RBM 90 640 A2	60	400	1	274.700	6041188
RBM 90 650 A2	60	500	1	376.300	6041190
RBM 90 660 A2	60	600	1	493.000	6041192
RBM 90 610 A4	60	100	1	65.700	6041200
RBM 90 615 A4	60	150	1	91.900	6041202
RBM 90 620 A4	60	200	1	121.900	6041204
RBM 90 630 A4	60	300	1	192.200	6041206
RBM 90 640 A4	60	400	1	274.700	6041208
RBM 90 650 A4	60	500	1	376.300	6041210
RBM 90 660 A4	60	600	1	493.000	6041212





90° bend with quick connector system. For all cable tray types of 60 mm side height.

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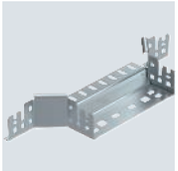
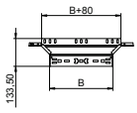
Cable trays, side height 60

Add-on tee 60

St FS FT



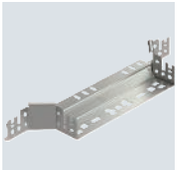


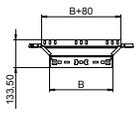
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 FS	60	100	1	37.700	6041230
RAAM 615 FS	60	150	1	42.046	6041232
RAAM 620 FS	60	200	1	50.100	6041234
RAAM 630 FS	60	300	1	62.900	6041236
RAAM 640 FS	60	400	1	75.700	6041238
RAAM 650 FS	60	500	1	89.300	6041240
RAAM 660 FS	60	600	1	102.700	6041242
RAAM 610 FT	60	100	1	40.800	6041250
RAAM 615 FT	60	150	1	47.500	6041252
RAAM 620 FT	60	200	1	54.200	6041254
RAAM 630 FT	60	300	1	68.000	6041257
RAAM 640 FT	60	400	1	81.800	6041259
RAAM 650 FT	60	500	1	105.400	6041261
RAAM 660 FT	60	600	1	110.100	6041263

Magic add-on tee with quick connector system. For all cable tray types of 60 mm side height.

Magic add-on tee 60

VA VA 2B



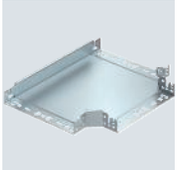


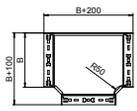
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 A2	60	100	1	37.700	6041270
RAAM 615 A2	60	150	1	44.300	6041271
RAAM 620 A2	60	200	1	50.100	6041275
RAAM 630 A2	60	300	1	62.900	6041277
RAAM 640 A2	60	400	1	75.700	6041279
RAAM 650 A2	60	500	1	89.300	6041282
RAAM 660 A2	60	600	1	102.700	6041284
RAAM 610 A4	60	100	1	37.700	6041290
RAAM 620 A4	60	200	1	50.100	6041294
RAAM 630 A4	60	300	1	62.900	6041296
RAAM 640 A4	60	400	1	75.700	6041298
RAAM 650 A4	60	500	1	89.300	6041300
RAAM 660 A4	60	600	1	102.700	6041303

Add-on tee with quick connector system. For all cable tray types of 60 mm side height.

Magic 60 T branch piece

St FS FT





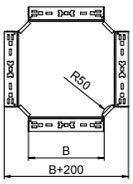
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 610 FS	60	100	1	83.600	6041320
RTM 615 FS	60	150	1	114.700	6041322
RTM 620 FS	60	200	1	150.600	6041324
RTM 630 FS	60	300	1	234.500	6041326
RTM 640 FS	60	400	1	335.600	6041328
RTM 650 FS	60	500	1	458.500	6041330
RTM 660 FS	60	600	1	605.000	6041332
RTM 610 FT	60	100	1	89.600	6041340
RTM 615 FT	60	150	1	123.000	6041342
RTM 620 FT	60	200	1	161.500	6041344
RTM 630 FT	60	300	1	253.300	6041348
RTM 640 FT	60	400	1	359.900	6041350
RTM 650 FT	60	500	1	495.100	6041352
RTM 660 FT	60	600	1	648.800	6041354

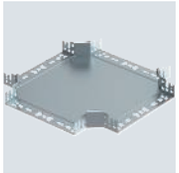
Tee branch piece with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

Magic 60 cross-over

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 610 FS	60	100	1	92.500	7027001
RKM 615 FS	60	150	1	123.800	7027003
RKM 620 FS	60	200	1	159.800	7027005
RKM 630 FS	60	300	1	244.600	7027007
RKM 640 FS	60	400	1	343.400	7027009
RKM 650 FS	60	500	1	468.300	7027011
RKM 660 FS	60	600	1	610.100	7027013
RKM 610 FT	60	100	1	100.000	7027021
RKM 620 FT	60	200	1	172.700	7027025
RKM 630 FT	60	300	1	264.300	7027027
RKM 640 FT	60	400	1	368.200	7027029
RKM 650 FT	60	500	1	502.200	7027031
RKM 660 FT	60	600	1	658.800	7027033



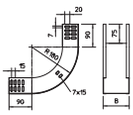


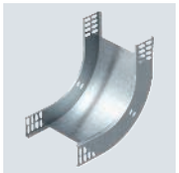
Cross-over with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

90° vertical bend, rising 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S FS	60	100	1	66.000	7007005
RBV 615 S FS	60	150	1	78.000	7007009
RBV 620 S FS	60	200	1	95.000	7007013
RBV 630 S FS	60	300	1	124.000	7007017
RBV 640 S FS	60	400	1	153.000	7007021
RBV 650 S FS	60	500	1	181.000	7007025
RBV 660 S FS	60	600	1	210.000	7007029
RBV 610 S FT	60	100	1	71.000	7007006
RBV 615 S FT	60	150	1	84.000	7007010
RBV 620 S FT	60	200	1	103.000	7007014
RBV 630 S FT	60	300	1	134.000	7007018
RBV 640 S FT	60	400	1	163.000	7007022
RBV 650 S FT	60	500	1	190.000	7007026
RBV 660 S FT	60	600	1	221.000	7007030





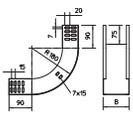
90° rising vertical bend, for all cable tray types of 60 mm side height.

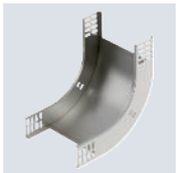
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

VA VA 2B

90° vertical bend, rising 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S A2	60	100	1	66.000	7007105
RBV 615 S A2	60	150	1	84.000	7007107
RBV 620 S A2	60	200	1	109.000	7007109
RBV 630 S A2	60	300	1	145.000	7007113
RBV 640 S A2	60	400	1	181.000	7007117
RBV 650 S A2	60	500	1	216.000	7007119
RBV 660 S A2	60	600	1	252.000	7007121
RBV 610 S A4	60	100	1	73.000	7006720
RBV 620 S A4	60	200	1	105.000	7006724
RBV 630 S A4	60	300	1	145.000	7006728
RBV 640 S A4	60	400	1	181.000	7006732
RBV 650 S A4	60	500	1	216.000	7006736
RBV 660 S A4	60	600	1	252.000	7006740





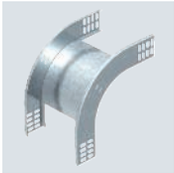
90° rising vertical bend, for all cable tray types of 60 mm side height.

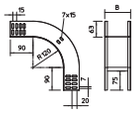
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

90° vertical bend, falling 60

St FS FT





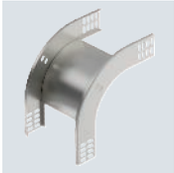
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F FS	60	100	1	61.000	**7007055**
RBV 615 F FS	60	150	1	73.000	**7007059**
RBV 620 F FS	60	200	1	84.000	**7007063**
RBV 630 F FS	60	300	1	107.000	**7007067**
RBV 640 F FS	60	400	1	130.000	**7007071**
RBV 650 F FS	60	500	1	153.000	**7007075**
RBV 660 F FS	60	600	1	176.000	**7007079**
RBV 610 F FT	60	100	1	66.000	**7007056**
RBV 615 F FT	60	150	1	80.000	**7007060**
RBV 620 F FT	60	200	1	92.000	**7007064**
RBV 630 F FT	60	300	1	116.000	**7007068**
RBV 640 F FT	60	400	1	142.000	**7007072**
RBV 650 F FT	60	500	1	167.000	**7007076**
RBV 660 F FT	60	600	1	192.000	**7007080**

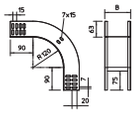
90° vertical bend, falling, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling 60

VA VA 2B





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F A2	60	100	1	61.000	**7007155**
RBV 615 F A2	60	150	1	73.000	**7007156**
RBV 620 F A2	60	200	1	84.000	**7007157**
RBV 630 F A2	60	300	1	107.000	**7007159**
RBV 640 F A2	60	400	1	130.000	**7007161**
RBV 650 F A2	60	500	1	153.000	**7007163**
RBV 660 F A2	60	600	1	176.000	**7007165**
RBV 610 F A4	60	100	1	61.000	**7006750**
RBV 620 F A4	60	200	1	84.000	**7006754**
RBV 630 F A4	60	300	1	107.000	**7006758**
RBV 640 F A4	60	400	1	130.000	**7006762**
RBV 650 F A4	60	500	1	153.000	**7006766**
RBV 660 F A4	60	600	1	176.000	**7006770**

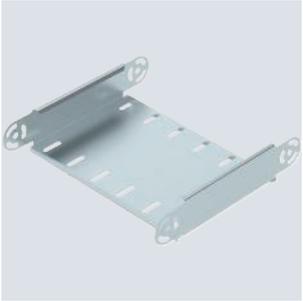
90° vertical bend, falling, for all cable tray types of 60 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 60

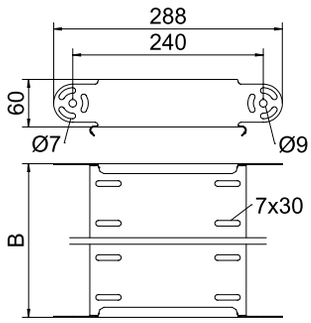
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60	1	48.100	**7005326**
RGBEV 620 FS	60	1	63.600	**7005342**
RGBEV 630 FS	60	1	80.400	**7005369**
RGBEV 640 FS	60	1	114.000	**7005385**
RGBEV 650 FS	60	1	134.000	**7005407**
RGBEV 660 FS	60	1	155.900	**7005423**
RGBEV 610 FT	60	1	52.400	**7075103**
RGBEV 615 FT	60	1	60.300	**7075154**
RGBEV 620 FT	60	1	69.300	**7075200**
RGBEV 630 FT	60	1	87.600	**7075308**
RGBEV 640 FT	60	1	123.000	**7075405**
RGBEV 650 FT	60	1	144.000	**7075502**
RGBEV 660 FT	60	1	167.200	**7075596**



Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 FS	100	1.00
RGBEV 620 FS	200	1.00
RGBEV 630 FS	300	1.00
RGBEV 640 FS	400	1.00
RGBEV 650 FS	500	1.00
RGBEV 660 FS	600	1.00

Dimensions

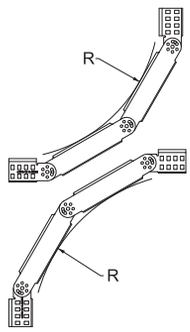


Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	Approx. 600 mm
4	approx. 750 mm
5	Approx. 900 mm

Please order two RGV 60 adjustable connectors separately.

Installation



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

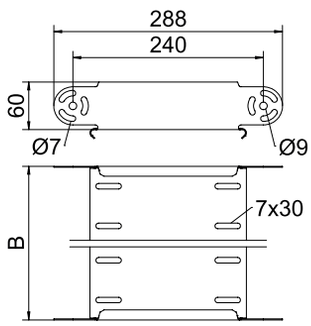
Adjustable vertical bend element 60

VA VA 2B

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 A2	60	1	53.300	**7075651**
RGBEV 620 A2	60	1	74.100	**7075653**
RGBEV 630 A2	60	1	94.800	**7075655**
RGBEV 640 A2	60	1	115.500	**7075657**
RGBEV 650 A2	60	1	136.200	**7075659**
RGBEV 660 A2	60	1	157.000	**7075661**
RGBEV 610 A4	60	1	54.000	**7075671**
RGBEV 620 A4	60	1	75.000	**7075673**
RGBEV 630 A4	60	1	96.000	**7075675**
RGBEV 640 A4	60	1	117.000	**7075677**
RGBEV 650 A4	60	1	138.000	**7075679**
RGBEV 660 A4	60	1	159.000	**7075681**

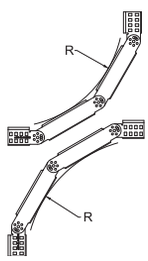
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 A2	100	1.00
RGBEV 620 A2	200	1.00
RGBEV 630 A2	300	1.00
RGBEV 640 A2	400	1.00
RGBEV 650 A2	500	1.00
RGBEV 660 A2	600	1.00

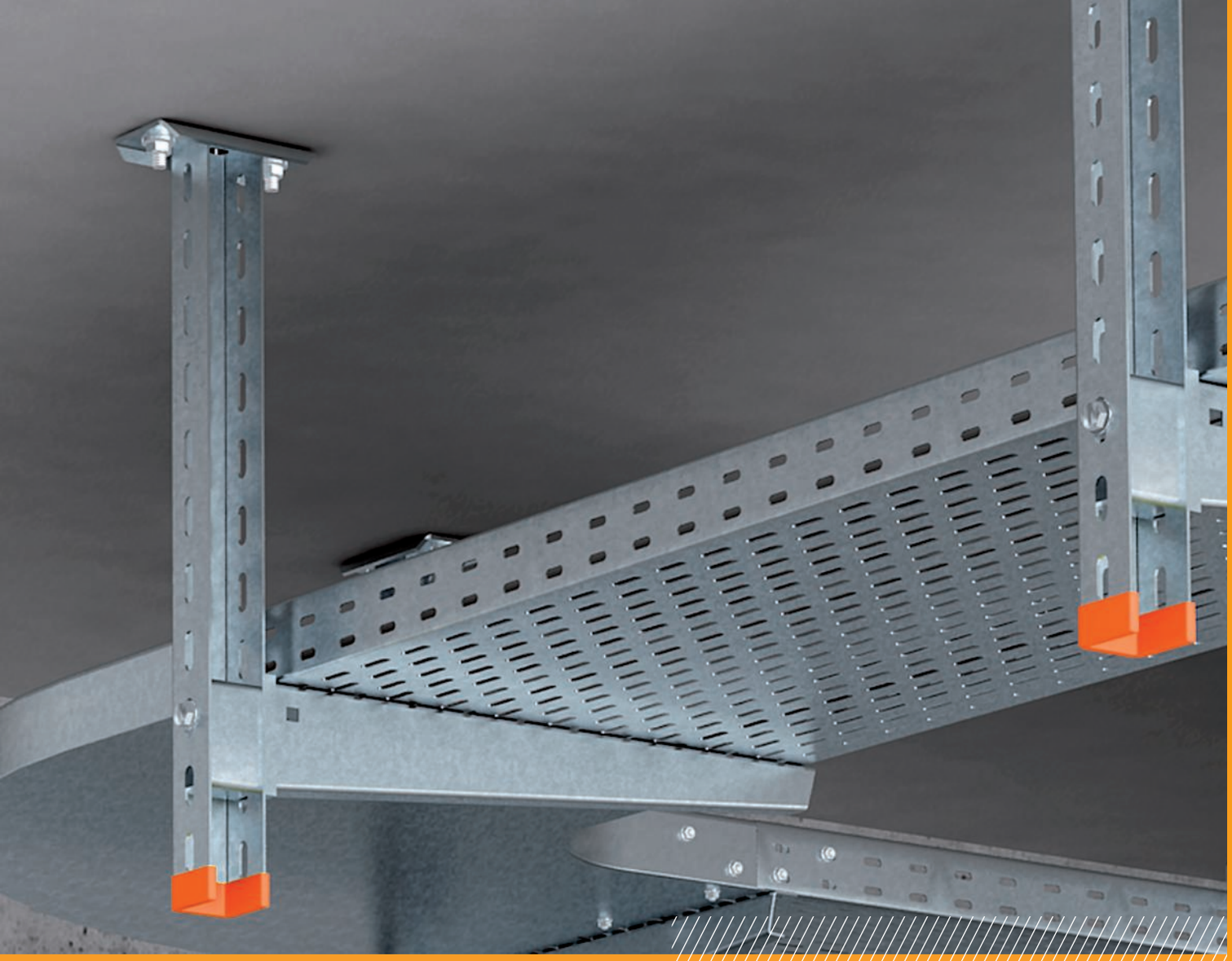
Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

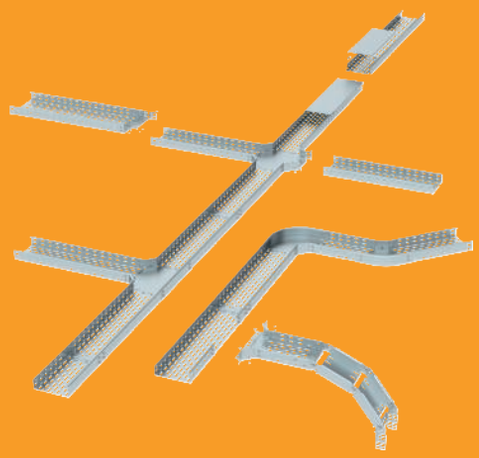
Please order two RGV 60 articulated connectors separately.



Cable tray system MKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

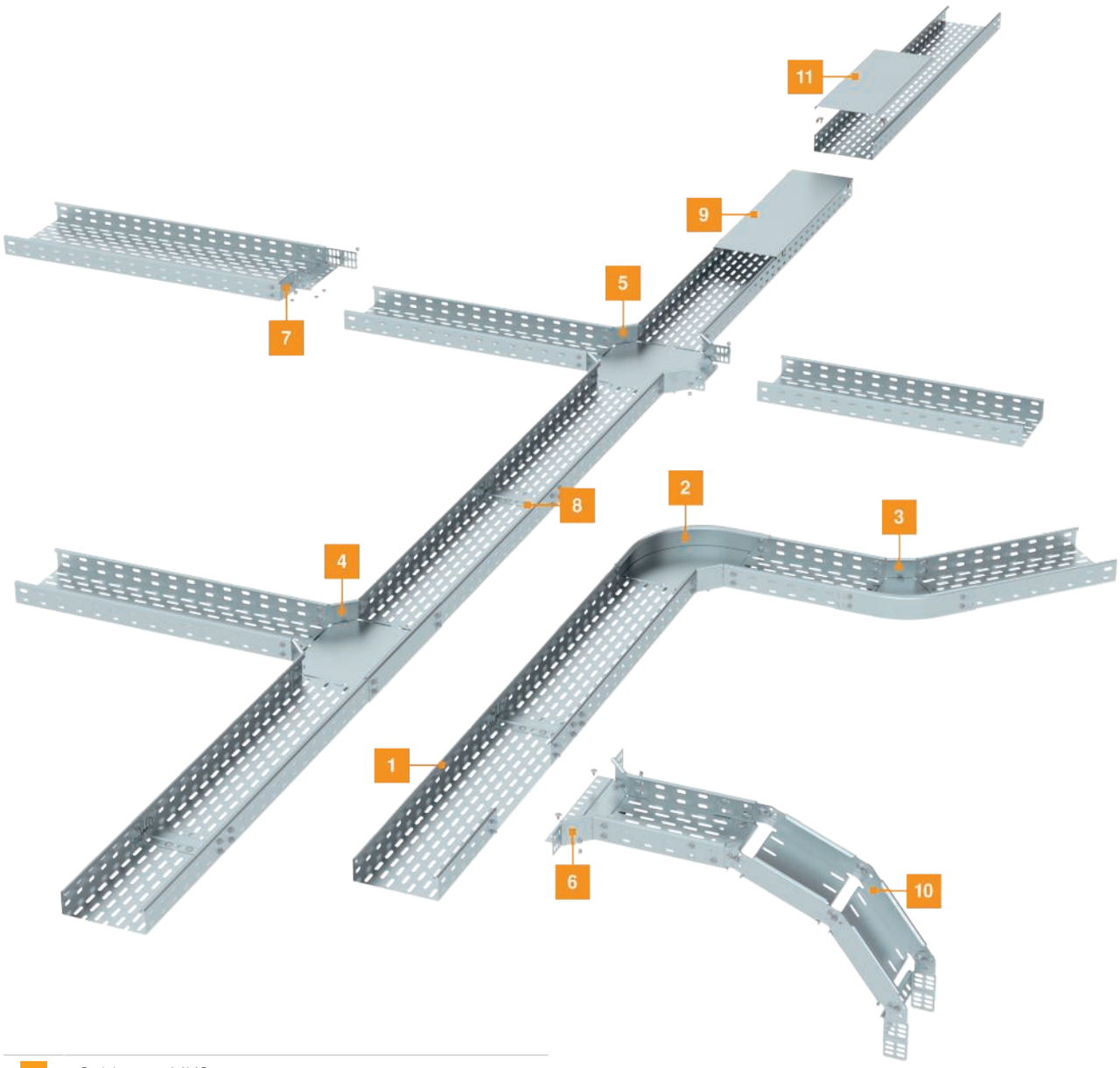
- Medium-duty cable tray system with side heights of 35, 60 and 85 mm
- Various fittings, functional connectors and additional accessories



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable tray system MKS

Installation principle

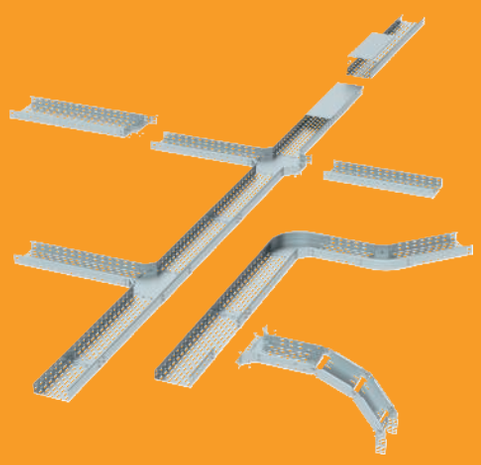


1	Cable tray MKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp

Cable tray system SKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

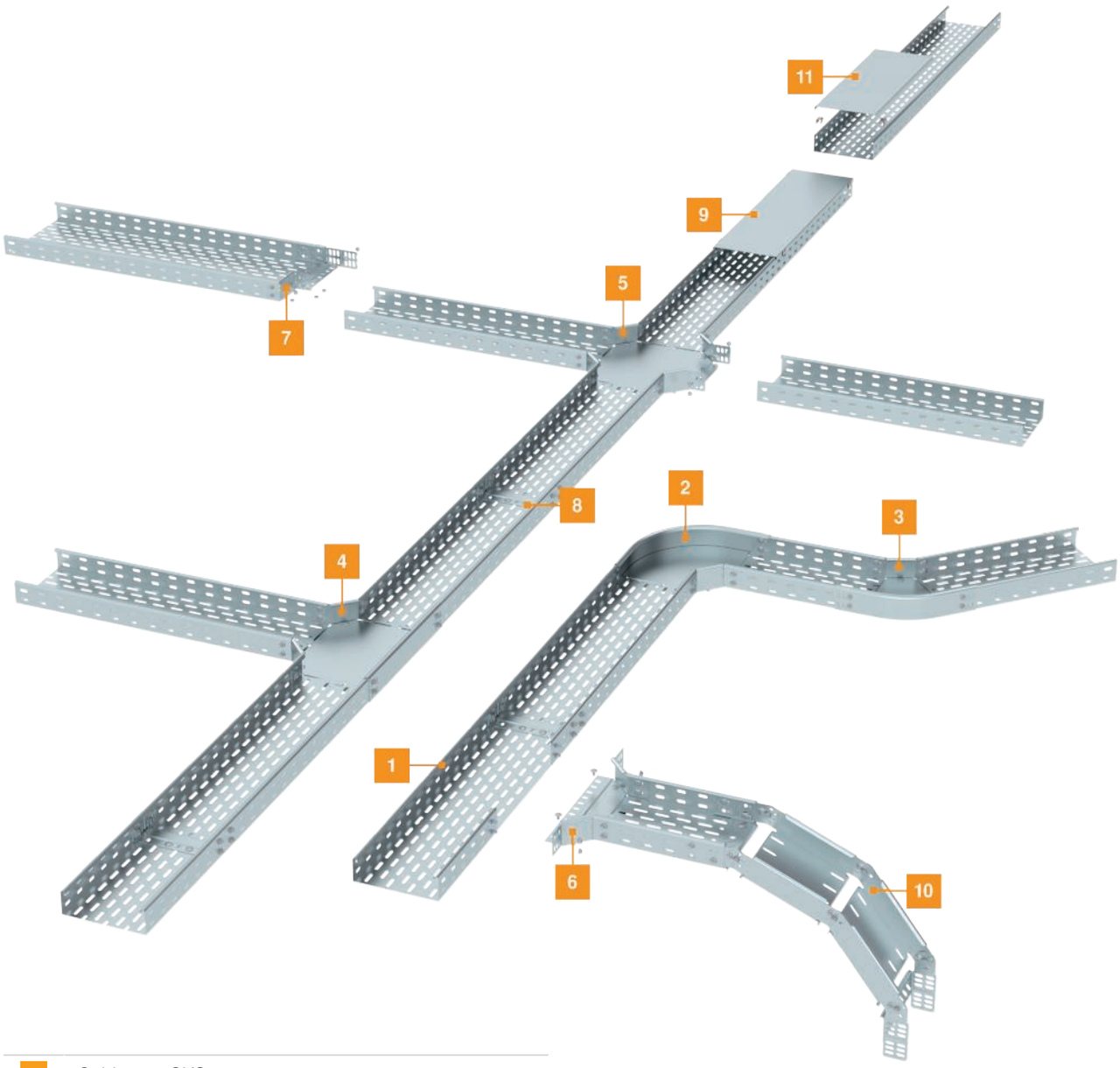
- Medium-duty cable tray system with side heights of 60, 85 and 110 mm
- Various fittings, functional connectors and additional accessories



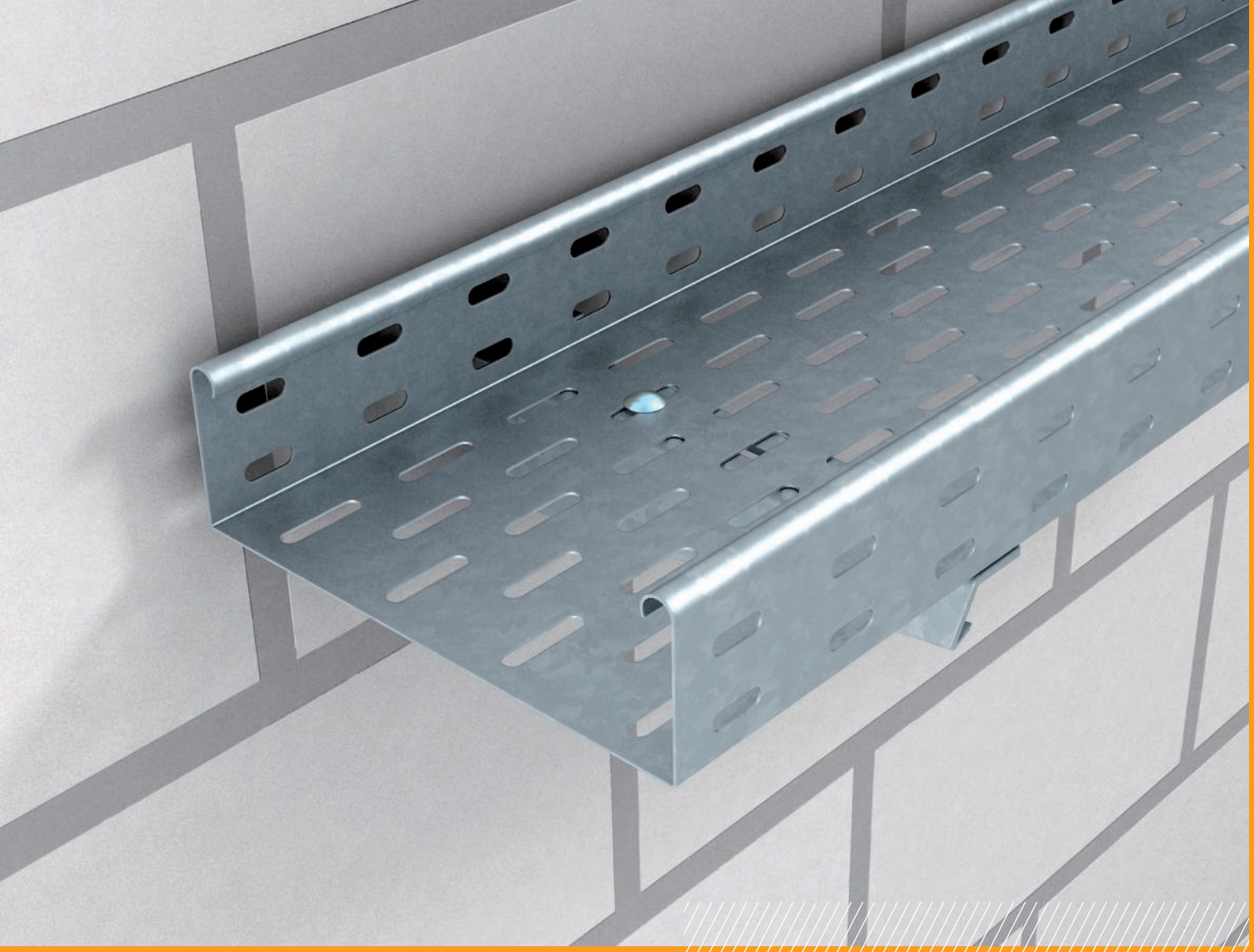
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable tray system SKS

Installation principle



1	Cable tray SKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp

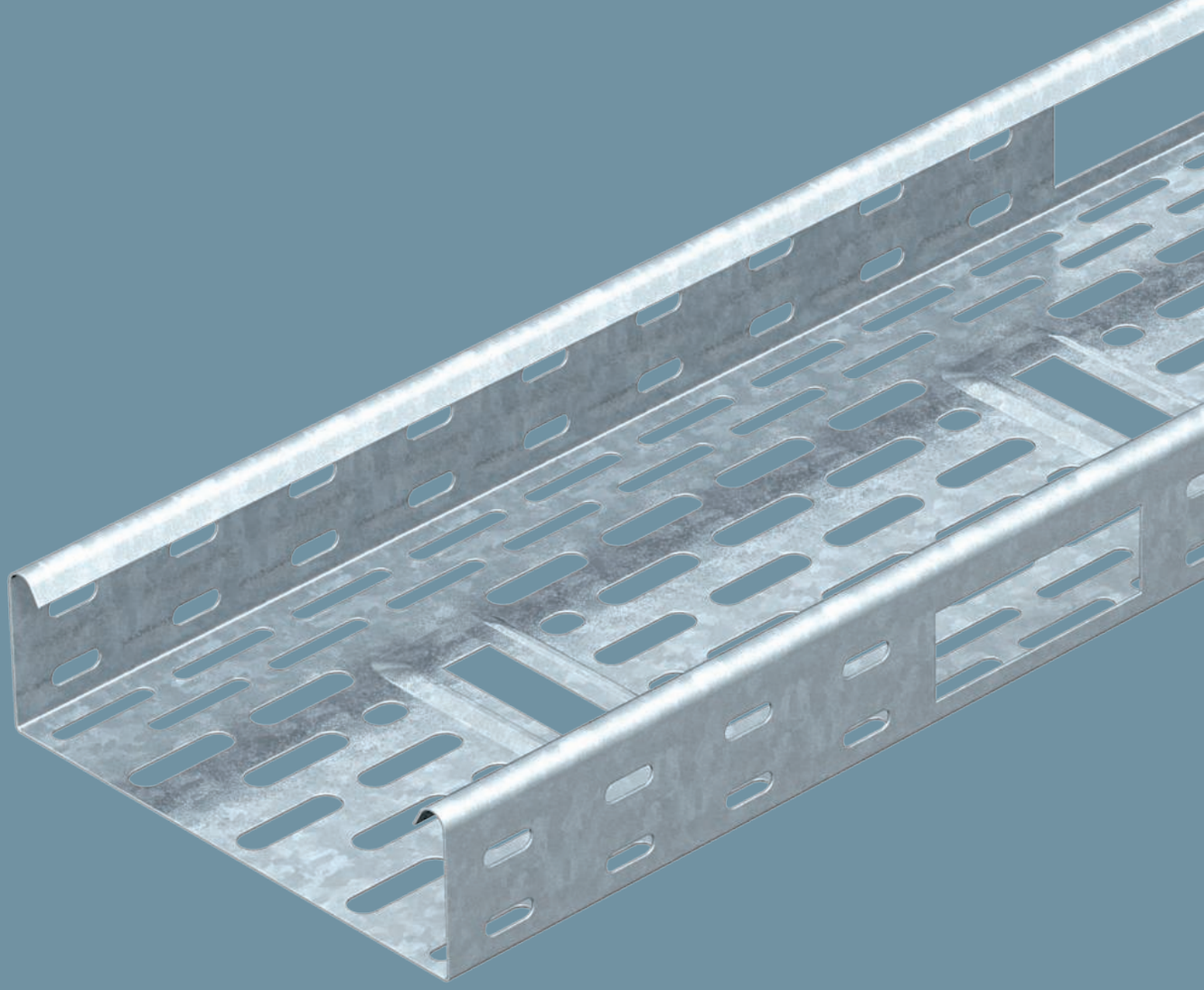


Cable tray system EKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Extra-heavy cable tray system with 60 mm side height
- Various fittings, functional connectors and additional accessories

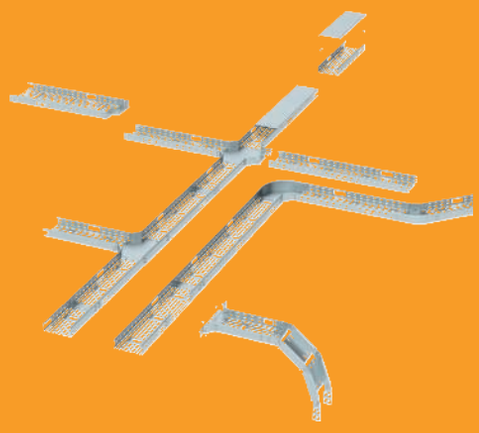
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Cable tray system IKS

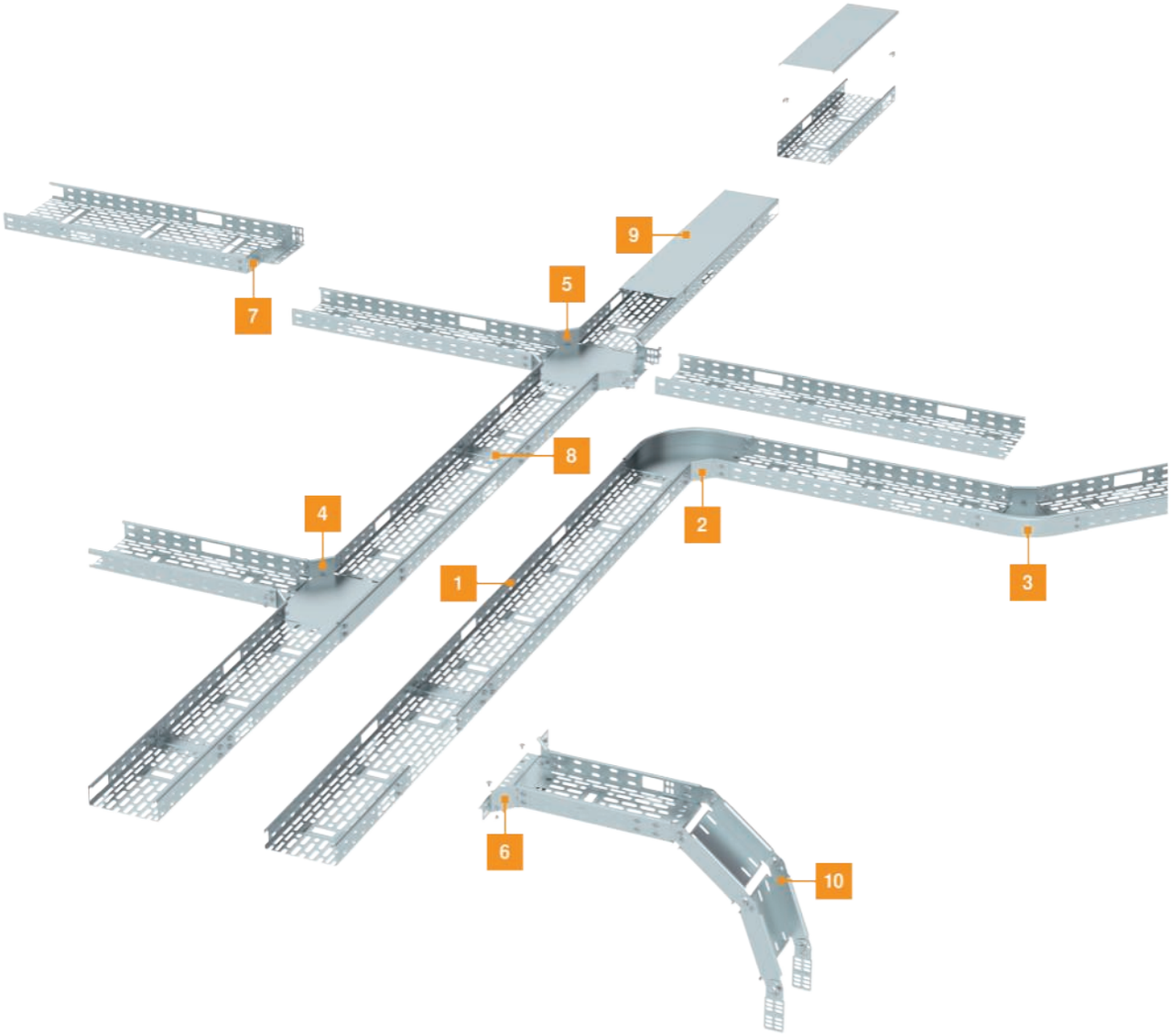
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Installation cable tray system with 60 mm side height
- 30% hole surface for use under sprinkler systems
- Various fittings, all types of connectors and additional accessories



Cable tray system IKS

Installation principle

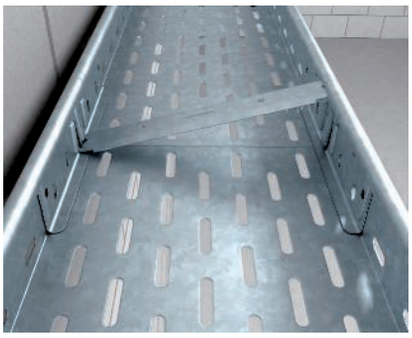


1	Cable tray DKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Unperforated cover with cover clamp
10	Adjustable bend element

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

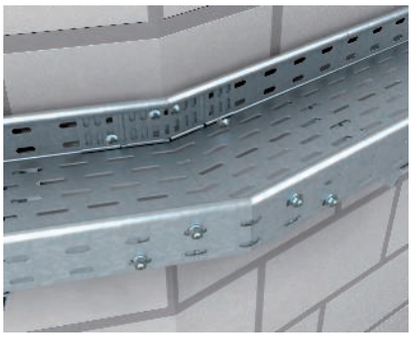
Mounting aid

Installation of RV straight connector set
Straight connection of the cable trays through simply clamping the connector set RV into the side rail.

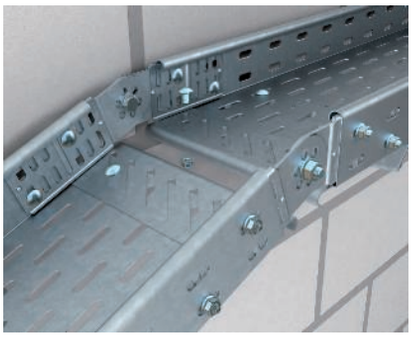


Screwless straight connector set, type RV
Press the corresponding joint plate downwards and snap it in place.

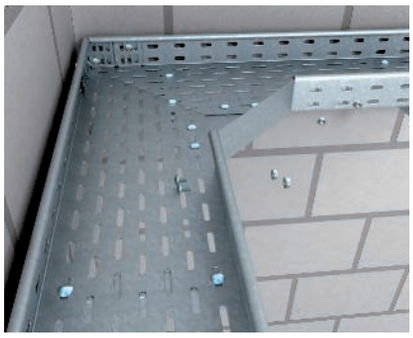
Straight connection with joint cover
Cable tray with screwed straight connection and joint plate, type SSLB. The joint plate can also be mounted above the bar of the RV straight connector set.



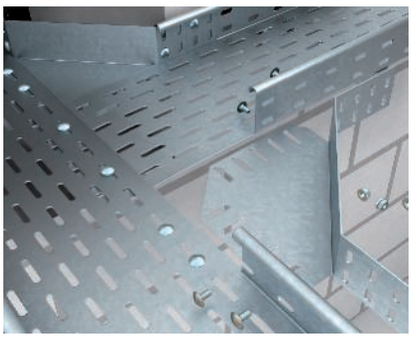
Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



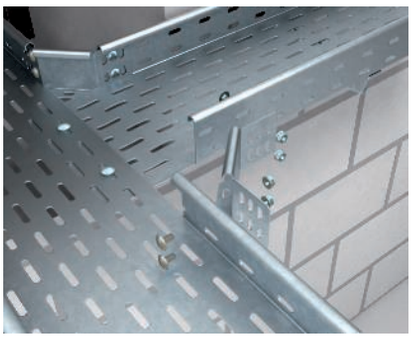
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



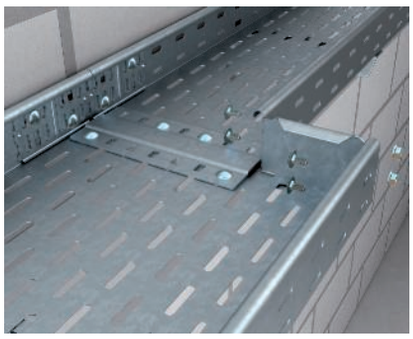
Bend creation with corner connector
For 90° bends to be created at site, the corner connector, type REV, can be used to increase the internal radius.



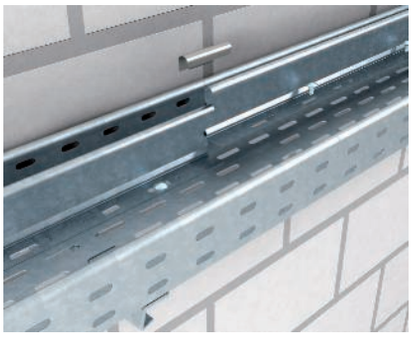
Direct connection with corner connectors
Corner connector, type REV, to increase the angle when creating tees without fittings. Additional supports should be planned for the area of the branches.



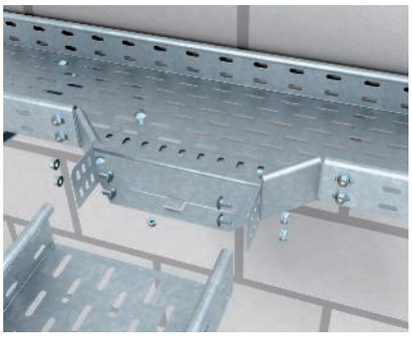
Branch with angle connectors
Installation of built T exit with angle connectors, type WKV. Additional supports should be planned for the area of the branches.



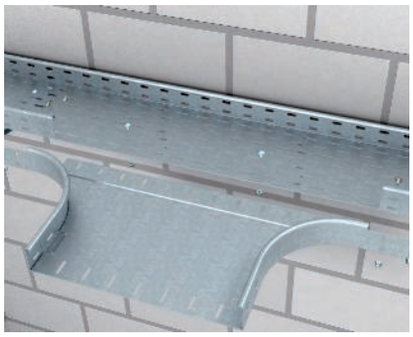
Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

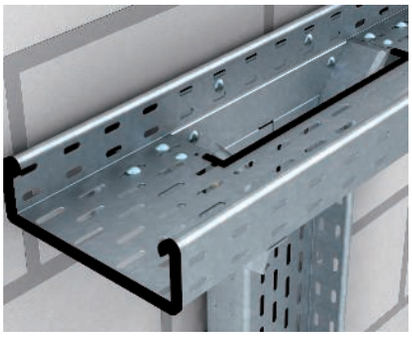


Installation of add-on tee (width 100 – 300 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.

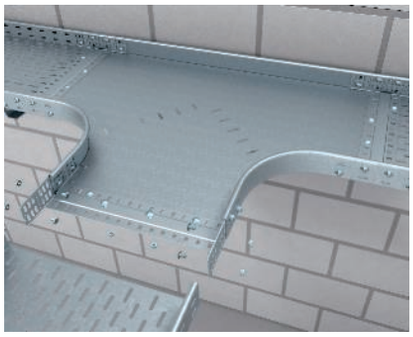


Installation of add-on tee (width 400 – 600 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.

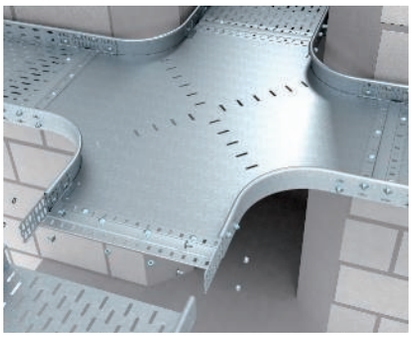
Installation of vertical add-on tee
Vertical mounting of the add-on tee as length-wise funnel.



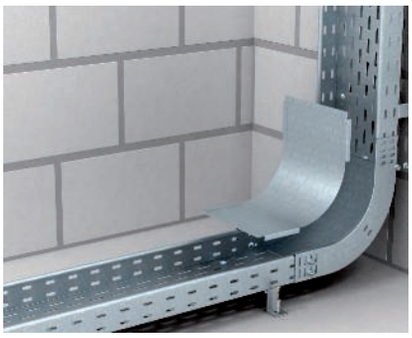
Installation of vertical add-on tee
Vertical mounting of the add-on tee as length-wise funnel.



Installation of tee
The tee in widths is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of cross-over
The cross-over is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.

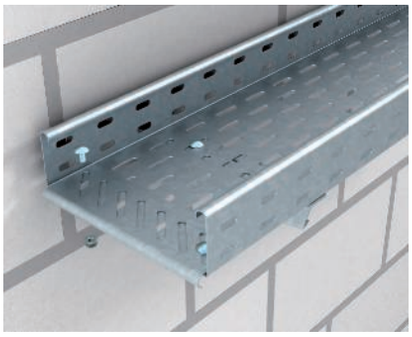
Installation of adjustable vertical bend element
Installation of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Installation of falling adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.

Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.

Screwless cover mounting
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.

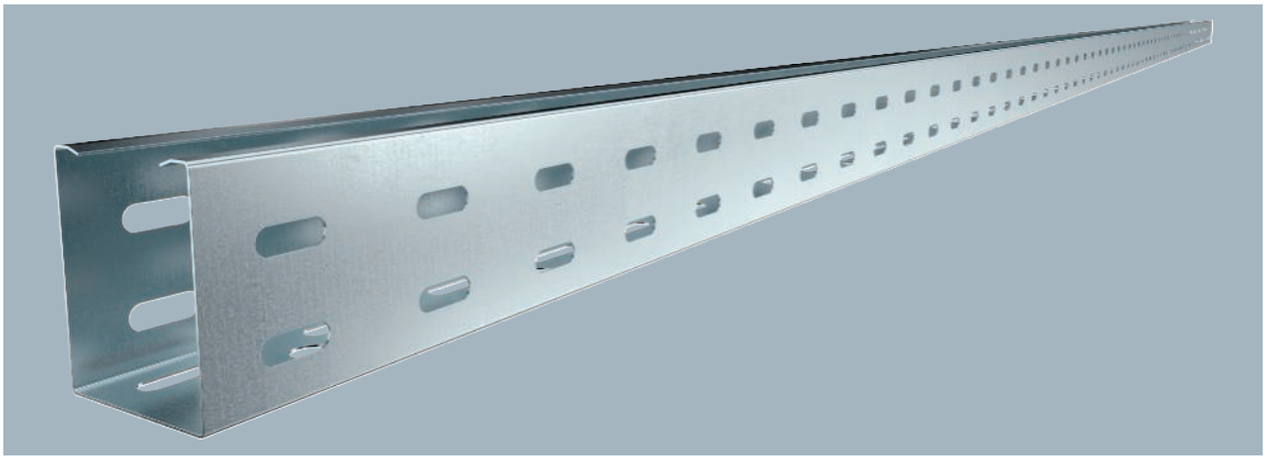


Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.

Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRS B.

St FS

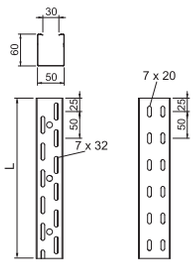
Cable tray RKS 60



RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

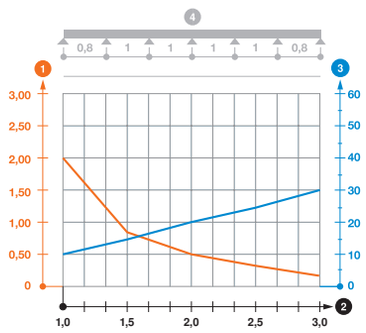
Type	Side height mm	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKS 605 FS	60	50	0.75		3	96.000	**6047600**

Dimensions



Type	Dim. L mm	Usable cross-section cm²
RKS 605 FS	3000	30

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
RKS 605 FS	2	0.8	0.5	0.35	0.15

Load diagram, cable tray, type RKS 60, unbeaded

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

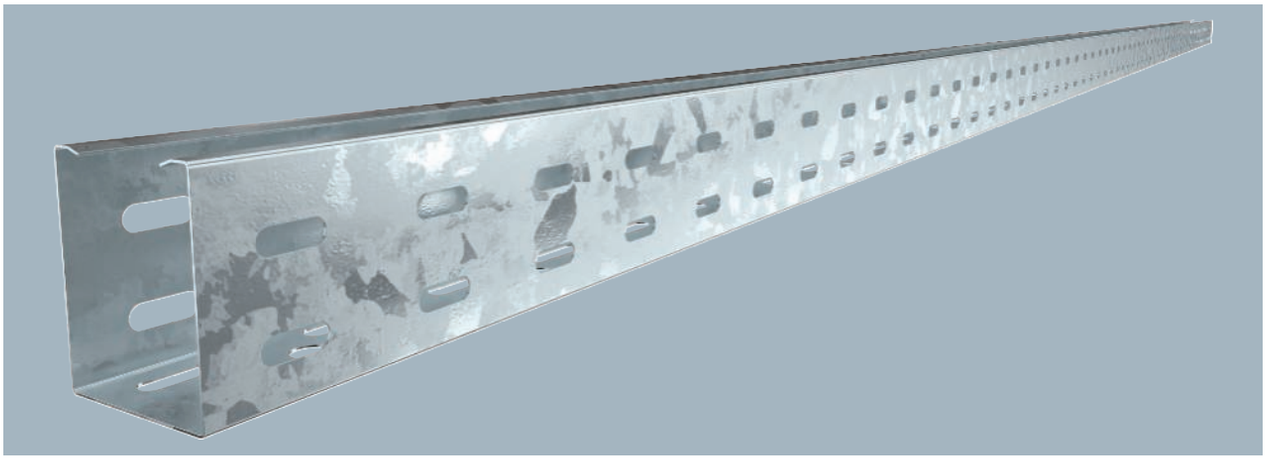
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray RKS 60

St FT



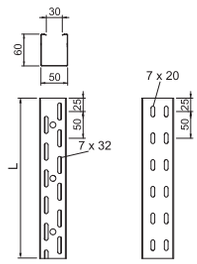
Type	Side height mm	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
RKS 605 FT	60	50	0.75		3	108.000	**6047602**

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

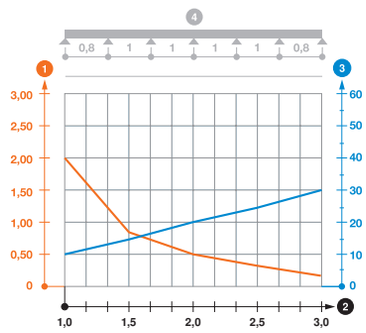
Type	Dim. L mm	Usable cross-section cm^2
RKS 605 FT	3000	30

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
RKS 605 FT	2	0.8	0.5	0.35	0.15

Load



Load diagram, cable tray, type RKS 60, unbeaded

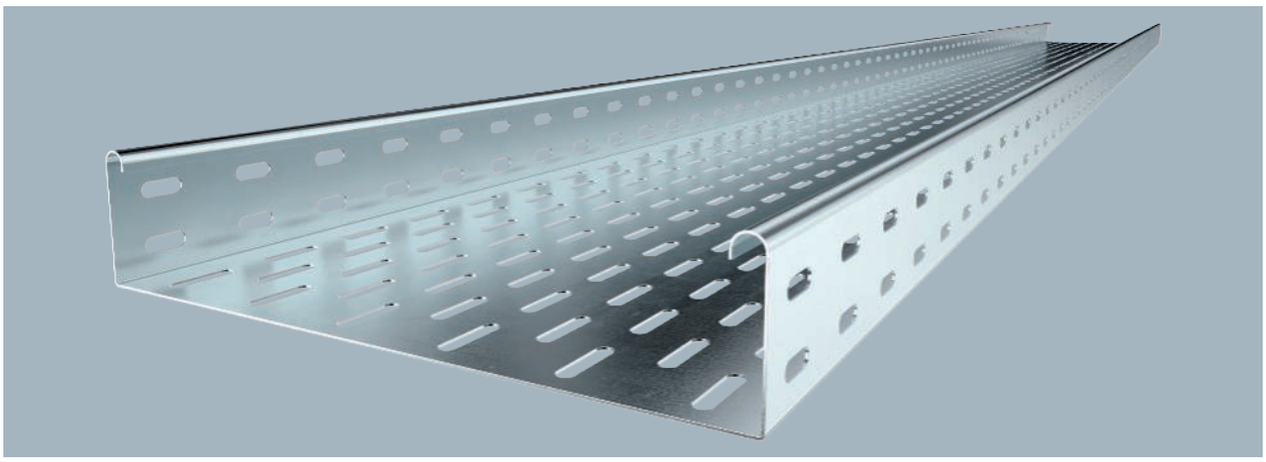
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray MKS 60

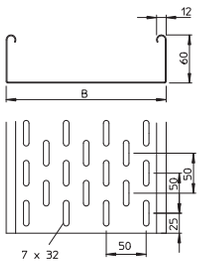


Tested for installation above suspended fire protection ceilings (tray widths 100-400 mm, fire load 30 minutes, mounting work and parameters according to fire protection reports)

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.

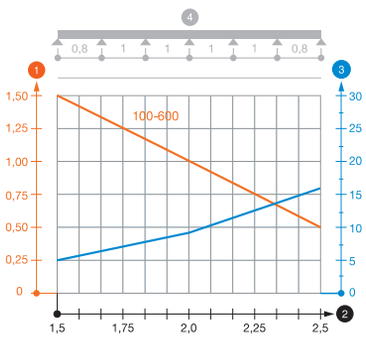
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKS 610 FS	100	1.00		3	173.000	**6055109**
MKS 615 FS	150	1.00		3	214.000	**6055141**
MKS 620 FS	200	1.00		3	246.700	**6055206**
MKS 630 FS	300	1.00		3	312.667	**6055303**
MKS 640 FS	400	1.00		3	380.000	**6055400**
MKS 650 FS	500	1.00		3	447.334	**6055508**
MKS 660 FS	600	1.00		3	513.334	**6055524**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 610 FS	3000	100	58
MKS 615 FS	3000	150	88
MKS 620 FS	3000	200	118
MKS 630 FS	3000	300	178
MKS 640 FS	3000	400	238
MKS 650 FS	3000	500	298
MKS 660 FS	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FS	1.5	1	0.5
MKS 615 FS	1.5	1	0.5
MKS 620 FS	1.5	1	0.5
MKS 630 FS	1.5	1	0.5
MKS 640 FS	1.5	1	0.5
MKS 650 FS	1.5	1	0.5
MKS 660 FS	1.5	1	0.5

Load diagram, cable tray, type MKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

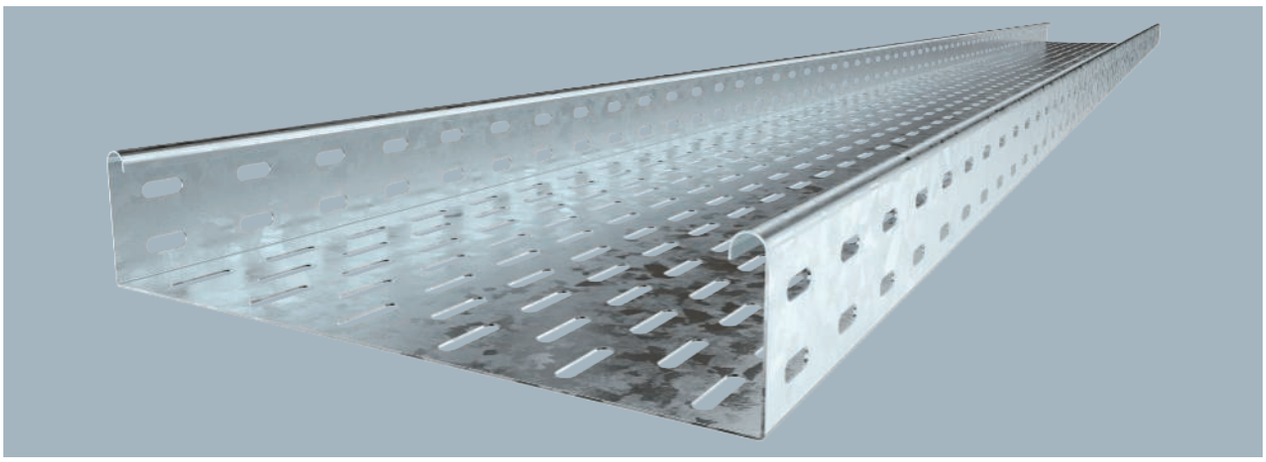
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray MKS 60

St FT

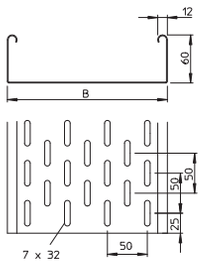


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 FT	100	1.00	3	190.100	**6055532**
MKS 615 FT	150	1.00	3	225.667	**6055559**
MKS 620 FT	200	1.00	3	263.234	**6055575**
MKS 630 FT	300	1.00	3	332.334	**6055613**
MKS 640 FT	400	1.00	3	403.334	**6055664**
MKS 650 FT	500	1.00	3	474.667	**6055699**
MKS 660 FT	600	1.00	3	545.670	**6055710**

MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

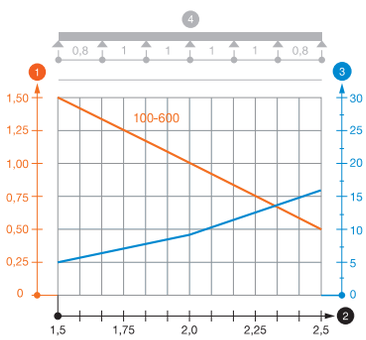
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 610 FT	3000	100	58
MKS 615 FT	3000	150	88
MKS 620 FT	3000	200	118
MKS 630 FT	3000	300	178
MKS 640 FT	3000	400	238
MKS 650 FT	3000	500	298
MKS 660 FT	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FT	1.5	1	0.5
MKS 615 FT	1.5	1	0.5
MKS 620 FT	1.5	1	0.5
MKS 630 FT	1.5	1	0.5
MKS 640 FT	1.5	1	0.5
MKS 650 FT	1.5	1	0.5
MKS 660 FT	1.5	1	0.5

Load



Load diagram, cable tray, type MKS 60

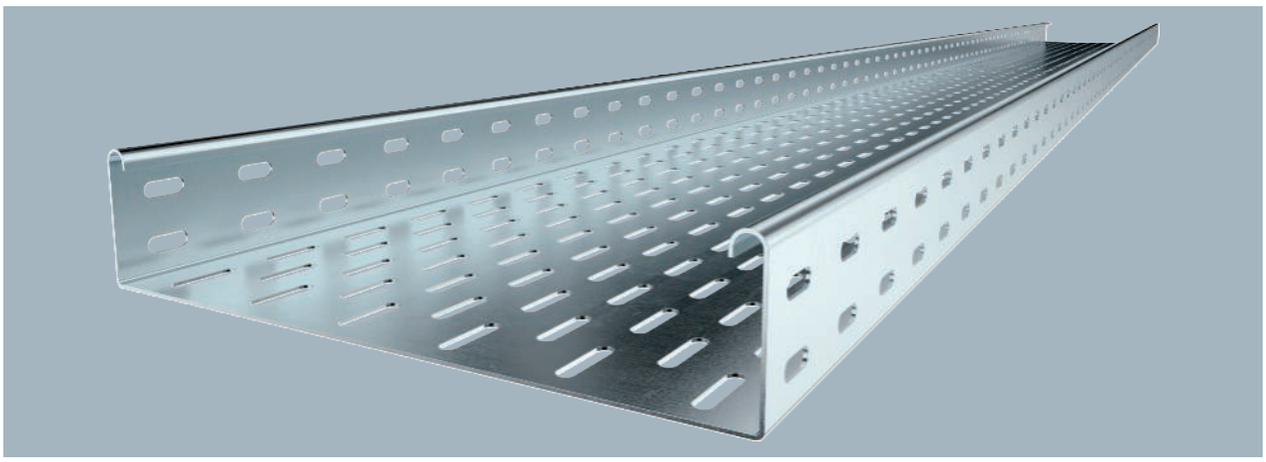
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray SKS 60

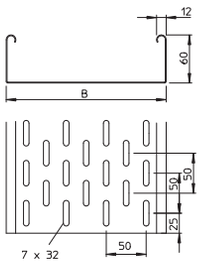


The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = heavy-duty cable tray system with 60 mm side height.

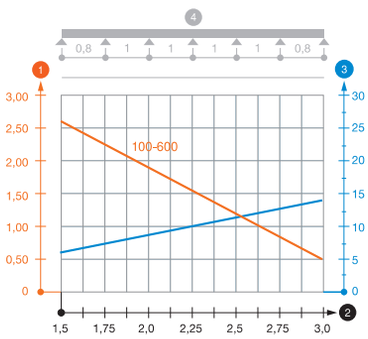
Type	Width mm	Metal thickness mm	BS	Pack m	Weight kg/100 m	Item no.
SKS 610 FS	100	1.50		3	239.400	**6056105**
SKS 615 FS	150	1.50		3	316.670	**6056156**
SKS 620 FS	200	1.50		3	364.000	**6056202**
SKS 630 FS	300	1.50		3	463.670	**6056296**
SKS 640 FS	400	1.50		3	564.340	**6056407**
SKS 650 FS	500	1.50		3	663.340	**6056504**
SKS 660 FS	600	1.50		3	762.340	**6056601**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 FS	3000	100	58
SKS 615 FS	3000	150	88
SKS 620 FS	3000	200	118
SKS 630 FS	3000	300	178
SKS 640 FS	3000	400	238
SKS 650 FS	3000	500	298
SKS 660 FS	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FS	2.65	1.8	1.15	0.5
SKS 615 FS	2.65	1.8	1.15	0.5
SKS 620 FS	2.65	1.8	1.15	0.5
SKS 630 FS	2.65	1.8	1.15	0.5
SKS 640 FS	2.65	1.8	1.15	0.5
SKS 650 FS	2.65	1.8	1.15	0.5
SKS 660 FS	2.65	1.8	1.15	0.5

Load diagram, cable tray, type SKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

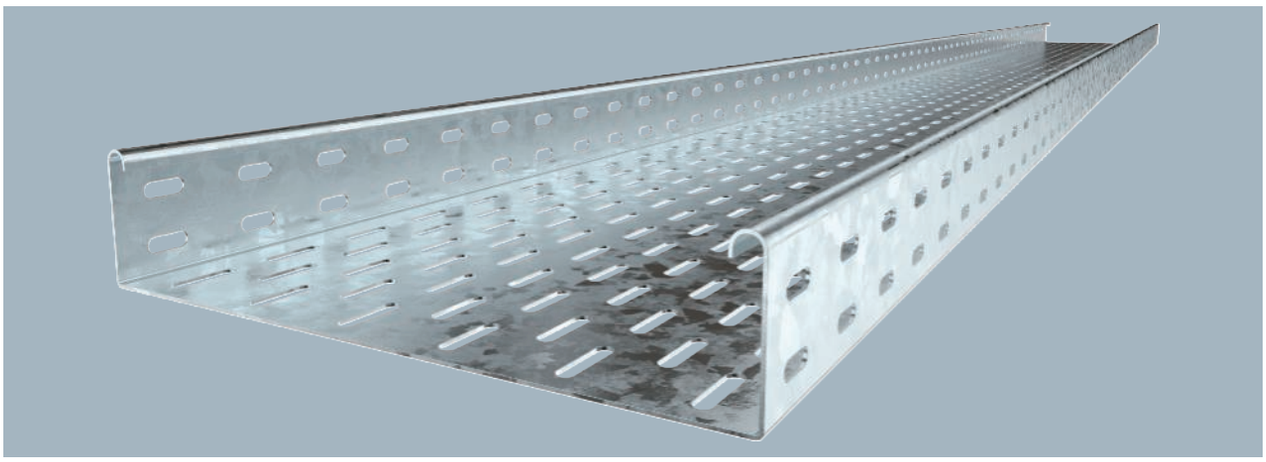
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray SKS 60

St FT



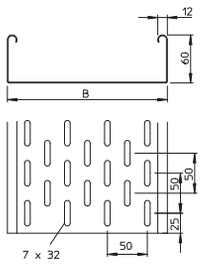
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 FT	100	1.50	3	277.000	**6056636**
SKS 615 FT	150	1.50	3	328.700	**6056644**
SKS 620 FT	200	1.50	3	380.000	**6056652**
SKS 630 FT	300	1.50	3	485.670	**6056679**
SKS 640 FT	400	1.50	3	590.340	**6056695**
SKS 650 FT	500	1.50	3	694.670	**6056717**
SKS 660 FT	600	1.50	3	799.000	**6056733**

The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

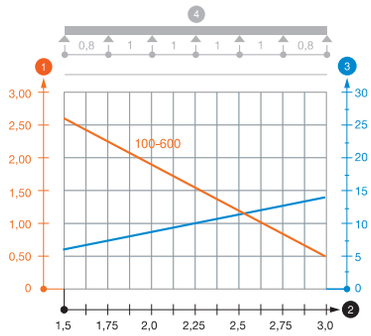
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 FT	3000	100	58
SKS 615 FT	3000	150	88
SKS 620 FT	3000	200	118
SKS 630 FT	3000	300	178
SKS 640 FT	3000	400	238
SKS 650 FT	3000	500	298
SKS 660 FT	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FT	2.65	1.8	1.15	0.5
SKS 615 FT	2.65	1.8	1.15	0.5
SKS 620 FT	2.65	1.8	1.15	0.5
SKS 630 FT	2.65	1.8	1.15	0.5
SKS 640 FT	2.65	1.8	1.15	0.5
SKS 650 FT	2.65	1.8	1.15	0.5
SKS 660 FT	2.65	1.8	1.15	0.5

Load



Load diagram, cable tray, type SKS 60

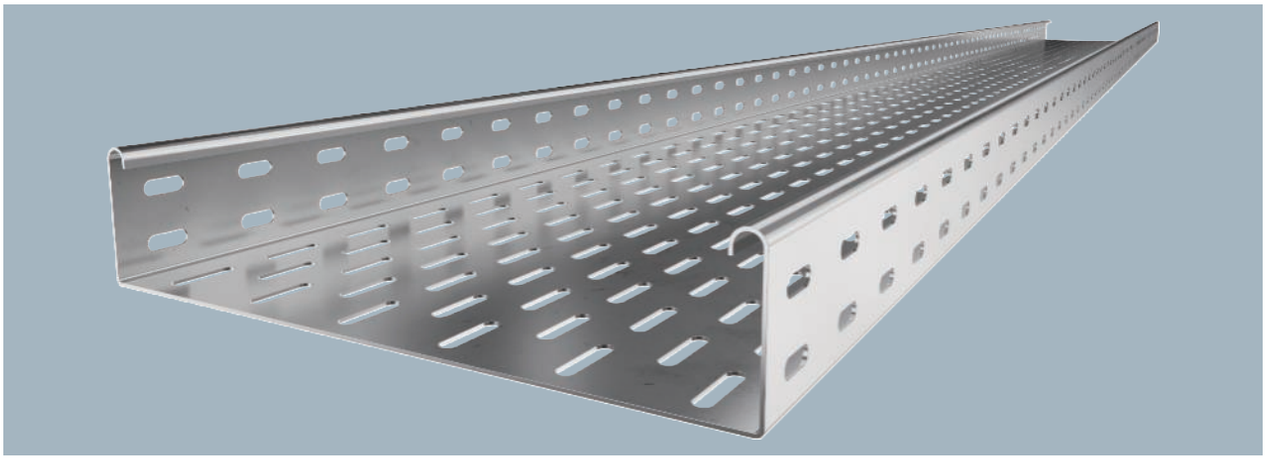
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Cable tray SKS 60

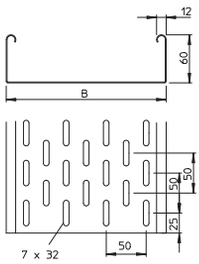


The cable tray, type SKS, should also be used for maintenance of electrical function. For additional data, please refer to BSS fire protection systems. The cable tray is fastened to the bracket with bolts, type FRS M6 x 12.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

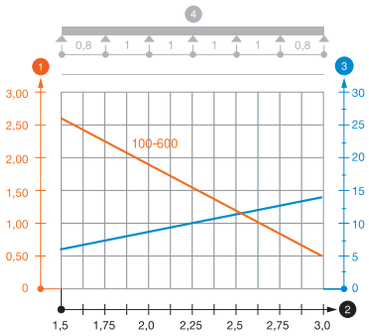
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 A4	100	1.50	3	260.000	**6056750**
SKS 620 A4	200	1.50	3	356.667	**6056755**
SKS 630 A4	300	1.50	3	455.333	**6056757**
SKS 640 A4	400	1.50	3	553.667	**6056759**
SKS 650 A4	500	1.50	3	651.333	**6056761**
SKS 660 A4	600	1.50	3	749.333	**6056763**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 A4	3000	100	58
SKS 620 A4	3000	200	118
SKS 630 A4	3000	300	178
SKS 640 A4	3000	400	238
SKS 650 A4	3000	500	298
SKS 660 A4	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A4	2.65	1.8	1.15	0.5
SKS 620 A4	2.65	1.8	1.15	0.5
SKS 630 A4	2.65	1.8	1.15	0.5
SKS 640 A4	2.65	1.8	1.15	0.5
SKS 650 A4	2.65	1.8	1.15	0.5
SKS 660 A4	2.65	1.8	1.15	0.5

Load diagram, cable tray SKS 60 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

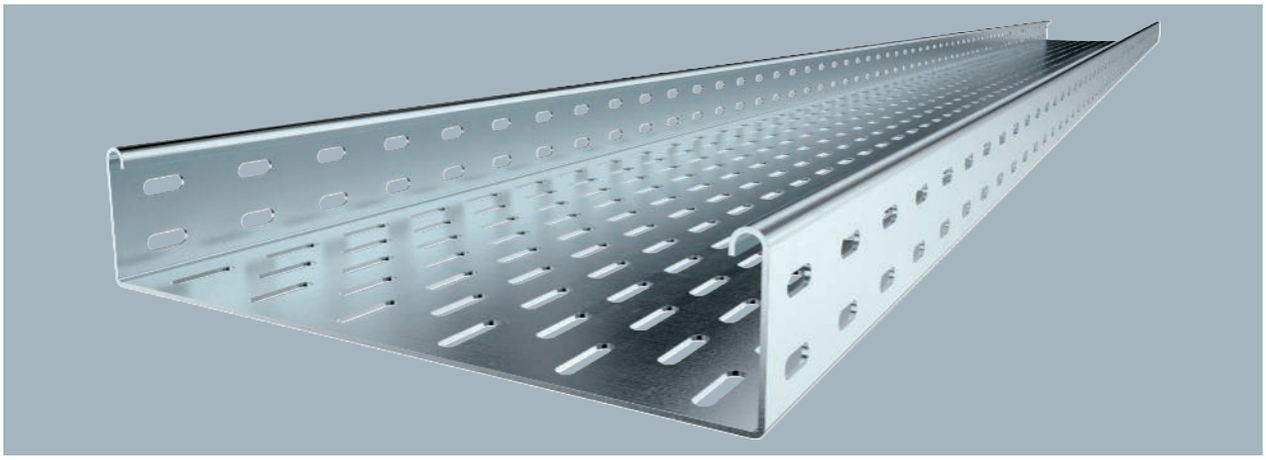
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable tray EKS 60

St FS



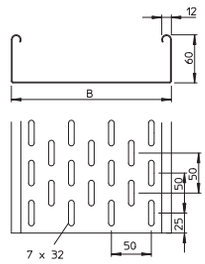
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
EKS 610 FS	100	2.00	3	341.340	**6056148**
EKS 620 FS	200	2.00	3	471.670	**6056229**
EKS 630 FS	300	2.00	3	602.000	**6056326**
EKS 640 FS	400	2.00	3	732.670	**6056423**
EKS 650 FS	500	2.00	3	863.000	**6056520**
EKS 660 FS	600	2.00	3	993.340	**6056628**

Straight connectors should be ordered separately for all the versions.

EKS 60 = extra-heavy cable tray system with 60 mm side height.

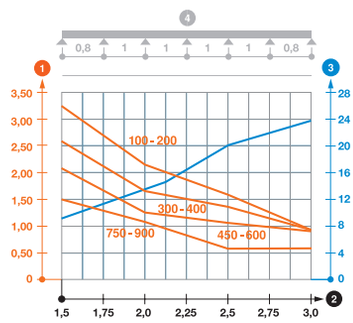
Type	Length mm	Dim. B mm	Usable cross-section cm^2
EKS 610 FS	3000	100	58
EKS 620 FS	3000	200	118
EKS 630 FS	3000	300	178
EKS 640 FS	3000	400	238
EKS 650 FS	3000	500	298
EKS 660 FS	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
EKS 610 FS	3.3	2.2	1.6	0.95
EKS 620 FS	3.3	2.2	1.6	0.95
EKS 630 FS	2.6	1.7	1.4	0.95
EKS 640 FS	2.6	1.7	1.4	0.95
EKS 650 FS	2.1	1.35	1.15	0.9
EKS 660 FS	2.1	1.35	1.15	0.9

Load



Load diagram, cable tray, type EKS 60

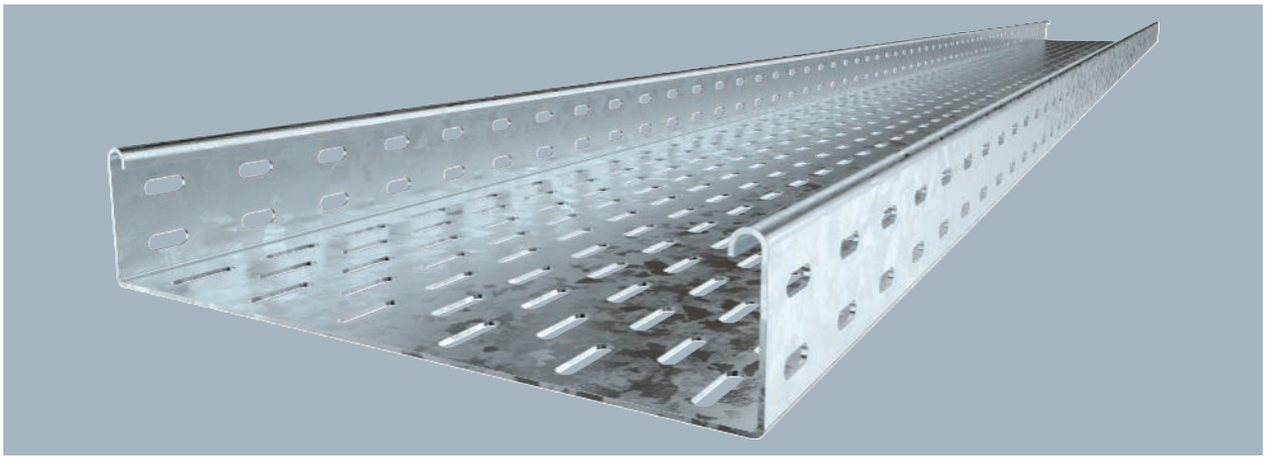
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

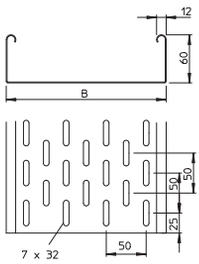
Cable tray EKS 60



Straight connectors should be ordered separately for all the versions.
EKS 60 = Extra-heavy cable tray system with 60 mm side height.

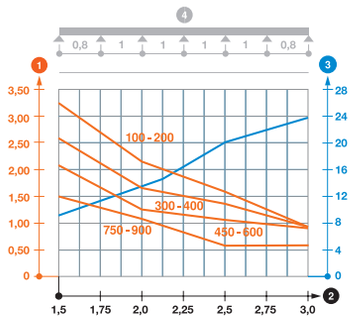
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
EKS 610 FT	100	2.00	3	358.340	**6056776**
EKS 620 FT	200	2.00	3	493.000	**6056792**
EKS 630 FT	300	2.00	3	629.340	**6056806**
EKS 640 FT	400	2.00	3	765.670	**6056970**
EKS 650 FT	500	2.00	3	902.000	**6056989**
EKS 660 FT	600	2.00	3	1,038.340	**6056997**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
EKS 610 FT	3000	100	58
EKS 620 FT	3000	200	118
EKS 630 FT	3000	300	178
EKS 640 FT	3000	400	238
EKS 650 FT	3000	500	298
EKS 660 FT	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
EKS 610 FT	3.3	2.2	1.6	0.95
EKS 620 FT	3.3	2.2	1.6	0.95
EKS 630 FT	2.6	1.7	1.4	0.95
EKS 640 FT	2.6	1.7	1.4	0.95
EKS 650 FT	2.1	1.35	1.15	0.9
EKS 660 FT	2.1	1.35	1.15	0.9

Load diagram, cable tray, type EKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray SKSU 60

St FS

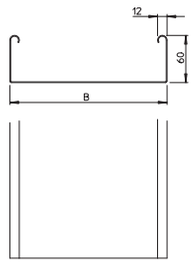
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 610 FS	100	1.50	3	286.000	**6063234**
SKSU 620 FS	200	1.50	3	399.670	**6063236**
SKSU 630 FS	300	1.50	3	516.000	**6063238**
SKSU 640 FS	400	1.50	3	639.000	**6063950**
SKSU 650 FS	500	1.50	3	756.670	**6063241**
SKSU 660 FS	600	1.50	3	877.000	**6063276**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

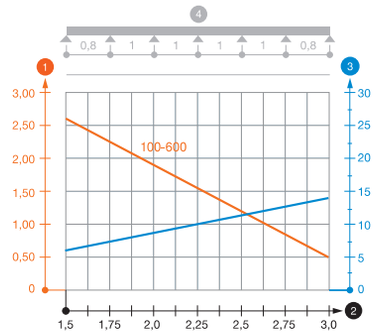
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 610 FS	3000	100	58
SKSU 620 FS	3000	200	118
SKSU 630 FS	3000	300	178
SKSU 640 FS	3000	400	238
SKSU 650 FS	3000	500	298
SKSU 660 FS	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FS	2.6	1.9	1.1	0.55
SKSU 620 FS	2.6	1.9	1.1	0.55
SKSU 630 FS	2.6	1.9	1.1	0.55
SKSU 640 FS	2.6	1.9	1.1	0.55
SKSU 650 FS	2.6	1.9	1.1	0.55
SKSU 660 FS	2.6	1.9	1.1	0.55

Load



Load diagram, cable tray, type SKSU 60

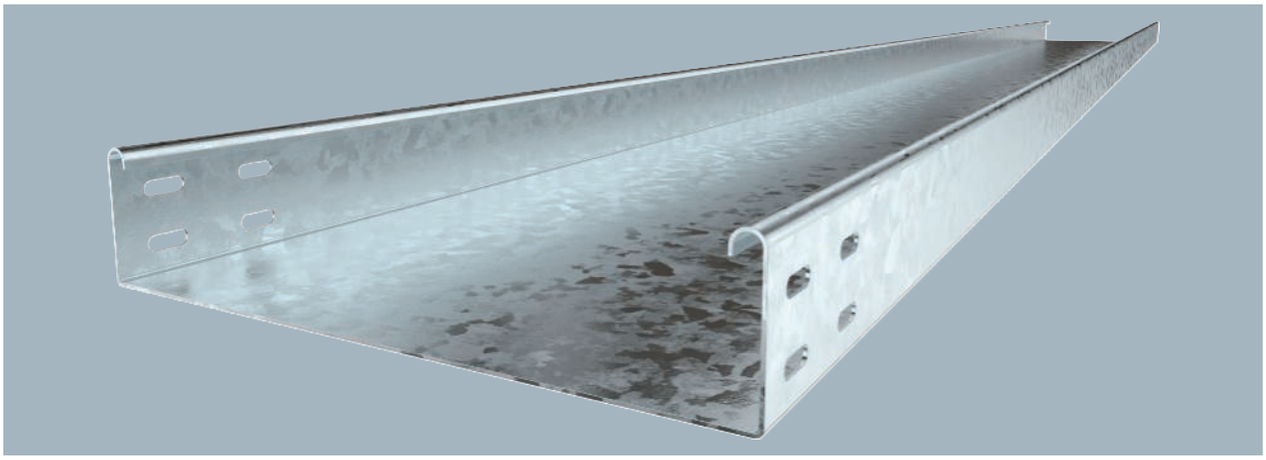
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Cable tray SKSU 60

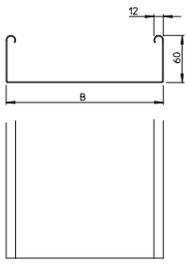


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

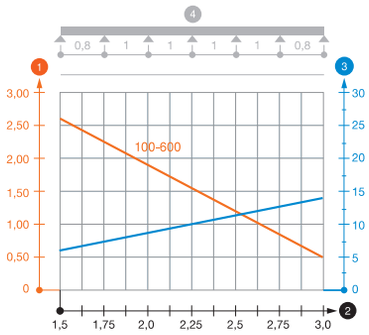
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 610 FT	100	1.50	3	302.670	**6064307**
SKSU 620 FT	200	1.50	3	427.340	**6064353**
SKSU 630 FT	300	1.50	3	554.670	**6064409**
SKSU 640 FT	400	1.50	3	687.000	**6064435**
SKSU 650 FT	500	1.50	3	802.000	**6064515**
SKSU 660 FT	600	1.50	3	929.670	**6064523**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 610 FT	3000	100	58
SKSU 620 FT	3000	200	118
SKSU 630 FT	3000	300	178
SKSU 640 FT	3000	400	238
SKSU 650 FT	3000	500	298
SKSU 660 FT	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FT	2.6	1.9	1.1	0.55
SKSU 620 FT	2.6	1.9	1.1	0.55
SKSU 630 FT	2.6	1.9	1.1	0.55
SKSU 640 FT	2.6	1.9	1.1	0.55
SKSU 650 FT	2.6	1.9	1.1	0.55
SKSU 660 FT	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

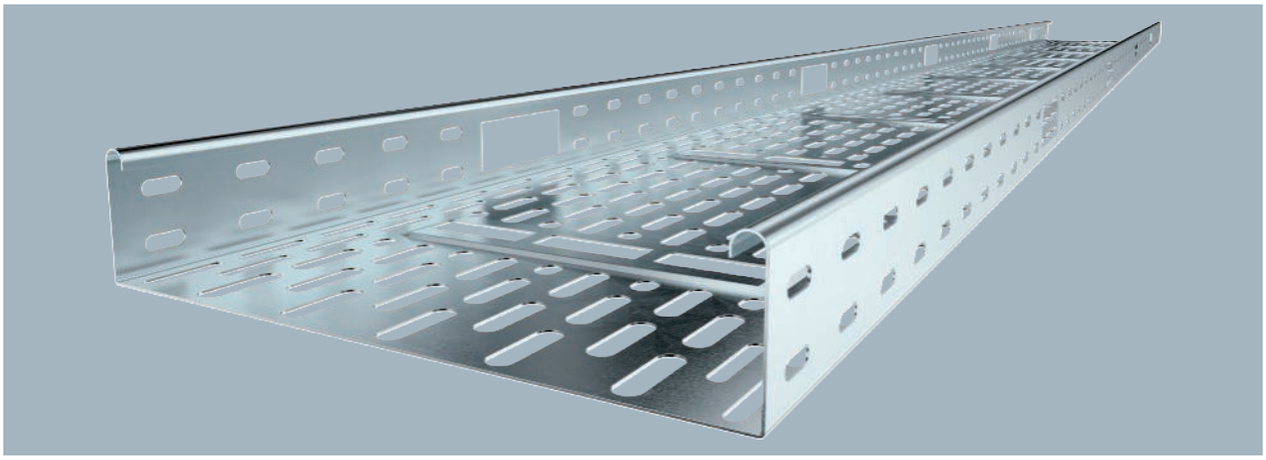
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Cable tray IKS 60

St FS

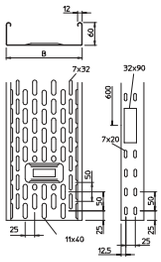


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
IKS 610 FS	100	1.00	3	155.340	**6087116**
IKS 620 FS	200	1.00	3	212.000	**6087132**
IKS 630 FS	300	1.00	3	265.070	**6087140**
IKS 640 FS	400	1.50	3	485.140	**6087159**

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm. Offset side holes every 300 mm.
Connecting parts should be ordered in the appropriate quantity.
IKS 60 = installation cable tray system with 60 mm side height.

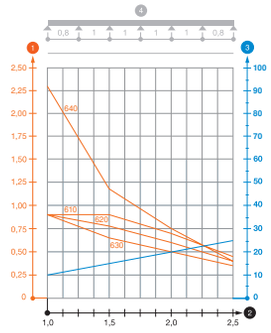
Type	Length mm	Dim. B mm	Usable cross-section cm²
IKS 610 FS	3000	100	58
IKS 620 FS	3000	200	118
IKS 630 FS	3000	300	178
IKS 640 FS	3000	400	238

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
IKS 610 FS	0.9	0.9	0.7	0.45
IKS 620 FS	0.9	0.77	0.6	0.4
IKS 630 FS	0.9	0.65	0.5	0.35
IKS 640 FS	2.3	1.17	0.75	0.4

Load



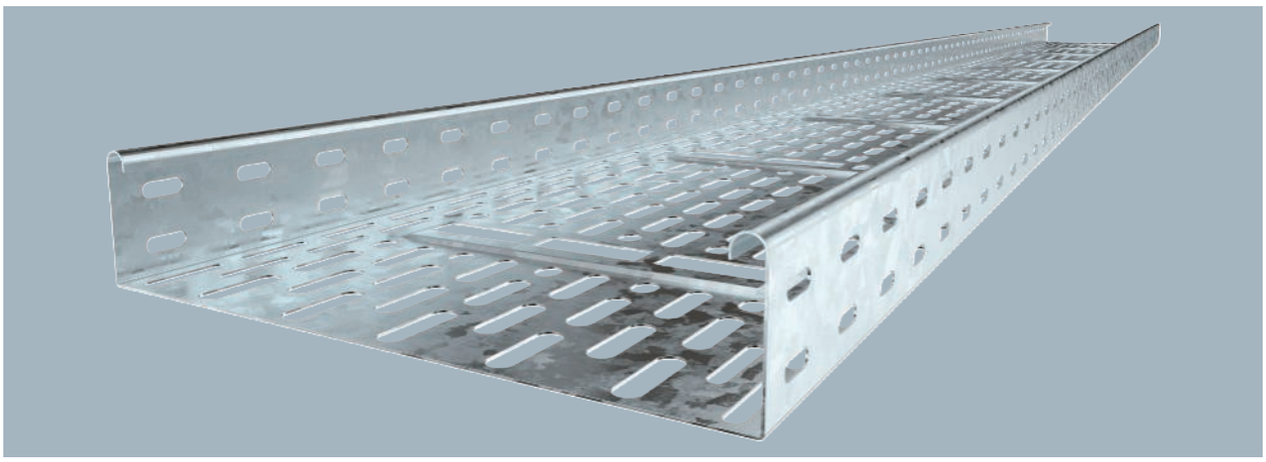
Load diagram, cable tray, type IKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

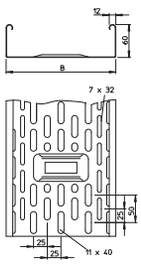
Cable tray DKS 60



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

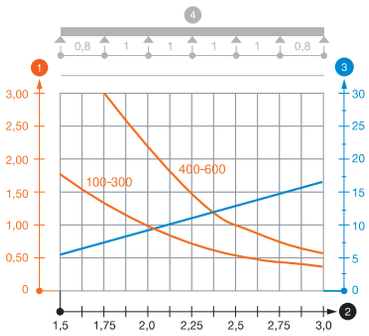
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DKS 610 FT	100	1.00	3	175.667	**6085326**
DKS 620 FT	200	1.00	3	237.334	**6085342**
DKS 630 FT	300	1.00	3	295.000	**6085369**
DKS 640 FT	400	1.50	3	523.000	**6085512**
DKS 650 FT	500	1.50	3	607.000	**6085539**
DKS 660 FT	600	1.50	3	690.667	**6085555**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
DKS 610 FT	3000	100	58
DKS 620 FT	3000	200	118
DKS 630 FT	3000	300	178
DKS 640 FT	3000	400	238
DKS 650 FT	3000	500	298
DKS 660 FT	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 610 FT	1.75	0.95	0.5	0.4
DKS 620 FT	1.75	0.95	0.5	0.4
DKS 630 FT	1.75	0.95	0.5	0.4
DKS 640 FT	3	2.25	1	0.65
DKS 650 FT	3	2.25	1	0.65
DKS 660 FT	3	2.25	1	0.65

Load diagram, cable tray, type DKS 60

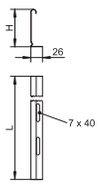
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS DD

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**



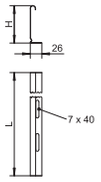
Separating retainer for separation of cables of different voltages or functions.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Separating retainer 45

VA VA 2B

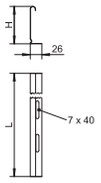


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**
TSG 45 A4	45	0.75	3000	3	49.850	**6062028**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

St FS DD

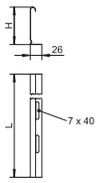


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

VA VA 2B



Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 A2	60	0.75	3000	3	59.265	**6062084**
TSG 60 A4	60	0.75	3000	3	59.256	**6062086**

Separating retainer for the separation of cables of different voltages or functions.

Separating retainer connector

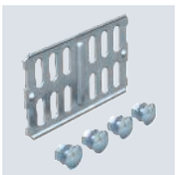
VA 2B

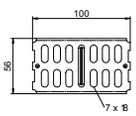
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Straight connector 60

St FS FT





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FS	60	10	9.976	**6067093**
RLVK 60 FT	60	10	10.300	**6067603**

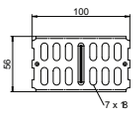
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

VA VA 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	**6067654**
RLVK 60 A4	60	10	9.780	**6067675**

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

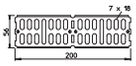


St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	**6067115**
RWVL 60 FT	60	10	17.400	**6067611**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

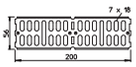


VA VA 2B

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	**6067662**
RWVL 60 A4	60	10	16.200	**6067664**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

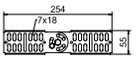


St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	**7082010**
RGV 60 FT	60	10	26.100	**7082223**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

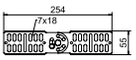


VA VA 2B

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	**7082258**
RGV 60 A4	60	10	25.100	**7082265**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.



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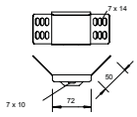
Cable trays, side height 60

Angle connector 60

St FS FT

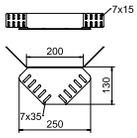


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	**6043062**
WKV 60 FT	60	5	15.800	**6042910**

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD

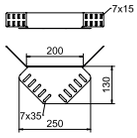


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	**6067972**
REV 60 DD	60	1	32.000	**6069410**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Corner connector 60

VA VA 2B

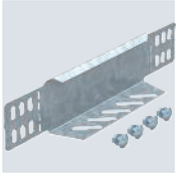


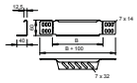
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	**6068022**
REV 60 A4	60	5	32.000	**6068054**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 60

St FS DD





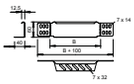
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	**7109105**
RWEB 615 FS	60	150	1	17.600	**7109156**
RWEB 620 FS	60	200	1	22.800	**7109202**
RWEB 630 FS	60	300	1	30.700	**7109296**
RWEB 640 FS	60	400	1	39.600	**7109407**
RWEB 650 FS	60	500	1	47.500	**7109504**
RWEB 660 FS	60	600	1	55.500	**7109601**
RWEB 605 DD	60	50	1	9.337	**7107145**
RWEB 610 DD	60	100	1	12.300	**7106106**
RWEB 615 DD	60	150	1	17.900	**7106110**
RWEB 620 DD	60	200	1	22.600	**7106114**
RWEB 630 DD	60	300	1	30.700	**7106118**
RWEB 640 DD	60	400	1	39.600	**7106122**
RWEB 650 DD	60	500	1	47.500	**7106126**
RWEB 660 DD	60	600	1	55.500	**7106130**

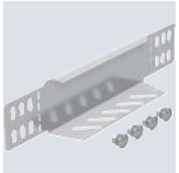
Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

VA 2B

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A2	60	100	1	12.500	**7109814**
RWEB 615 A2	60	150	1	18.000	**7109816**
RWEB 620 A2	60	200	1	22.900	**7109830**
RWEB 630 A2	60	300	1	31.200	**7109857**
RWEB 640 A2	60	400	1	37.300	**7109873**
RWEB 650 A2	60	500	1	48.100	**7109903**
RWEB 660 A2	60	600	1	56.100	**7109938**



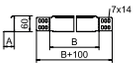


Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

VA 2B

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 A4	60	95	1	13.200	**7109951**
RWEB 620 A4	60	195	1	24.000	**7109953**
RWEB 630 A4	60	295	1	32.100	**7109955**
RWEB 640 A4	60	395	1	41.300	**7109957**
RWEB 650 A4	60	495	1	49.400	**7109959**
RWEB 660 A4	60	595	1	57.400	**7109961**

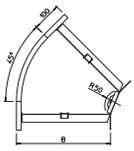


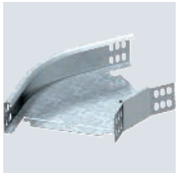
Reducer and end closure plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

St FS FT

45° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 610 FS	60	100	1	57.600	**6043763**
RB 45 615 FS	60	150	1	66.800	**6043755**
RB 45 620 FS	60	200	1	80.800	**6043771**
RB 45 630 FS	60	300	1	112.900	**6043798**
RB 45 610 FT	60	100	1	62.000	**7066112**
RB 45 615 FT	60	150	1	72.200	**7066158**
RB 45 620 FT	60	200	1	87.400	**7066228**
RB 45 630 FT	60	300	1	122.700	**7066317**



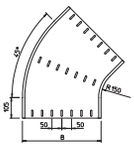


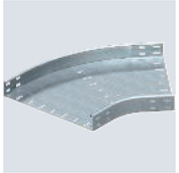
45° bend, horizontal, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

St FS FT

45° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 640 FS	60	400	1	301.000	**7000383**
RB 45 650 FS	60	500	1	385.900	**7000405**
RB 45 660 FS	60	600	1	480.400	**7000421**
RB 45 640 FT	60	400	1	301.000	**7066406**
RB 45 650 FT	60	500	1	412.800	**7066503**
RB 45 660 FT	60	600	1	515.600	**7066600**





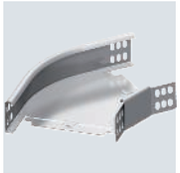
45° bend, horizontal, for all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

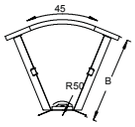
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

45° bend 60

VA VA 2B





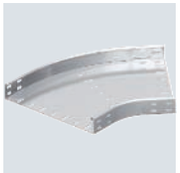
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 610 A2	60	100	1	57.700	**7133107**
RB 45 620 A2	60	200	1	80.900	**7133120**
RB 45 630 A2	60	300	1	113.100	**7133142**
RB 45 610 A4	60	100	1	57.700	**7133261**
RB 45 620 A4	60	200	1	80.900	**7133263**
RB 45 630 A4	60	300	1	113.100	**7133265**

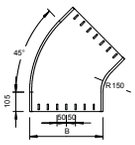
45° bend, horizontal, for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend 60

VA VA 2B





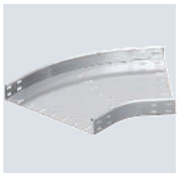
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBU 45 640 A2	60	400	1	300.700	**7133235**
RBU 45 650 A2	60	500	1	385.900	**7133243**
RBU 45 660 A2	60	600	1	480.400	**7133251**
RBU 45 640 A4	60	400	1	300.700	**7133271**
RBU 45 650 A4	60	500	1	385.900	**7133273**
RBU 45 660 A4	60	600	1	480.400	**7133275**

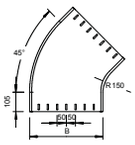
45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

45° bend 60

VA VA 2B





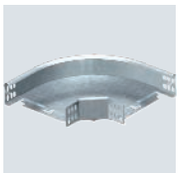
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBU 45 640 A2	60	400	1	300.700	**7133235**
RBU 45 650 A2	60	500	1	385.900	**7133243**
RBU 45 660 A2	60	600	1	480.400	**7133251**
RBU 45 640 A4	60	400	1	300.700	**7133271**
RBU 45 650 A4	60	500	1	385.900	**7133273**
RBU 45 660 A4	60	600	1	480.400	**7133275**

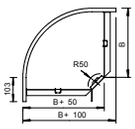
45° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend 60

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 FS	60	100	1	71.900	**6043216**
RB 90 615 FS	60	150	1	88.400	**6043208**
RB 90 620 FS	60	200	1	110.300	**6043224**
RB 90 630 FS	60	300	1	167.400	**6043232**
RB 90 610 FT	60	100	1	77.600	**7125100**
RB 90 615 FT	60	150	1	89.500	**7125189**
RB 90 620 FT	60	200	1	119.600	**7125220**
RB 90 630 FT	60	300	1	181.200	**7125305**

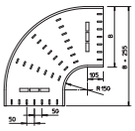
90° bend, horizontal, for all cable tray types of 60 mm side height.

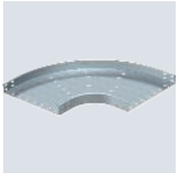
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 640 FS	60	400	1	472.300	**7001290**
RB 90 650 FS	60	500	1	527.000	**7001304**
RB 90 660 FS	60	600	1	680.000	**7001312**
RB 90 640 FT	60	400	1	507.000	**7125410**
RB 90 650 FT	60	500	1	559.000	**7125526**
RB 90 660 FT	60	600	1	721.500	**7125585**





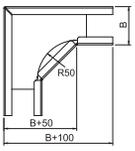
90° bend, horizontal, for all cable tray types of 60 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

90° bend

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 605 FS	60	50	1	39.300	**7124430**
RB 90 605 FT	60	50	1	41.600	**7124438**

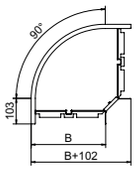


90° bend for horizontal routing of cable trays, type RKS 605.

VA VA 2B

90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 A2	60	100	1	125.000	**7134122**
RB 90 620 A2	60	200	1	110.400	**7134130**
RB 90 630 A2	60	300	1	166.600	**7134138**
RB 90 610 A4	60	100	1	125.000	**7134286**
RB 90 620 A4	60	200	1	111.900	**7134288**
RB 90 630 A4	60	300	1	166.600	**7134290**



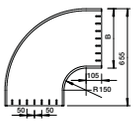
90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.

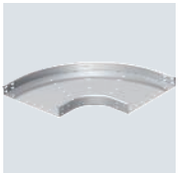
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

VA VA 2B

90° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBU 90 640 A2	60	400	1	465.000	**7134231**
RBU 90 650 A2	60	500	1	610.000	**7134258**
RBU 90 660 A2	60	600	1	770.000	**7134266**
RBU 90 640 A4	60	400	1	465.000	**7134292**
RBU 90 650 A4	60	500	1	610.000	**7134294**
RBU 90 660 A4	60	600	1	770.000	**7134296**





90° bend, horizontal and unperforated, for all cable tray types of 60 mm side height.

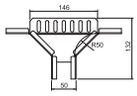
Fitting, unperforated, in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 60

Add-on tee 60

St FS FT

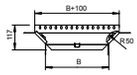


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 605 FS	60	50	1	30.000	**7120460**
RAA 605 FT	60	50	1	30.300	**7120468**

Add-on tee for horizontal routing of cable trays, type RKS 605.

Add-on tee 60

St FS FT

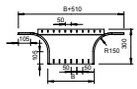


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 FS	60	100	1	44.200	**6040403**
RAA 615 FS	60	150	1	40.100	**6040411**
RAA 620 FS	60	200	1	53.100	**6040438**
RAA 630 FS	60	300	1	61.900	**6040446**
RAA 610 FT	60	100	1	47.700	**7121109**
RAA 615 FT	60	150	1	43.400	**7121205**
RAA 620 FT	60	200	1	57.500	**7121210**
RAA 630 FT	60	300	1	67.100	**7121318**

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee 60

St FS FT

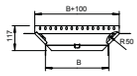


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 FS	60	400	1	220.000	**7002394**
RAA 650 FS	60	500	1	255.000	**7002416**
RAA 660 FS	60	600	1	285.000	**7002432**
RAA 640 FT	60	400	1	240.000	**7121407**
RAA 650 FT	60	500	1	280.000	**7121504**
RAA 660 FT	60	600	1	310.000	**7121601**

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

Add-on tee 60

VA VA 2B



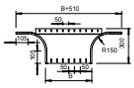
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 A2	60	100	1	44.200	**7136120**
RAA 620 A2	60	200	1	53.200	**7136133**
RAA 630 A2	60	300	1	61.500	**7136141**
RAA 610 A4	60	100	1	44.200	**7136122**
RAA 630 A4	60	300	1	61.500	**7136143**
RAA 620 A4	60	200	1	53.200	**7136135**

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

VA VA 2B

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 A2	60	400	1	220.000	**7136242**
RAA 650 A2	60	500	1	255.000	**7136250**
RAA 660 A2	60	600	1	285.000	**7136269**
RAA 640 A4	60	400	1	220.000	**7136244**
RAA 650 A4	60	500	1	255.000	**7136252**
RAA 660 A4	60	600	1	285.000	**7136271**

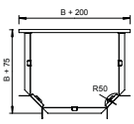


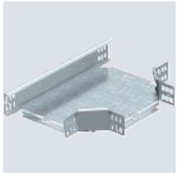
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

St FT

T branch piece 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 610 FT	60	100	1	89.900	**7117116**
RT 615 FT	60	150	1	109.000	**7117162**
RT 620 FT	60	200	1	144.800	**7117209**
RT 630 FT	60	300	1	215.900	**7117306**



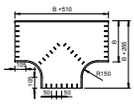


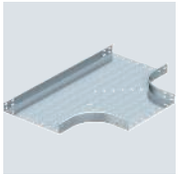
Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

St FT

T branch piece 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 640 FT	60	400	1	746.000	**7117396**
RT 650 FT	60	500	1	804.500	**7117507**
RT 660 FT	60	600	1	1,001.700	**7117604**



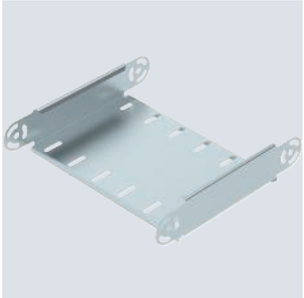


Horizontal T branch piece, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Adjustable bend element, vertical 60

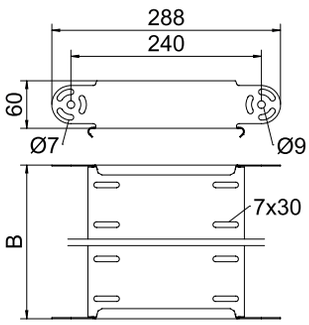
St FS FT



Type	Side height mm		Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60		1	48.100	**7005326**
RGBEV 615 FS	60		1	63.700	**7005334**
RGBEV 620 FS	60		1	63.600	**7005342**
RGBEV 630 FS	60		1	80.400	**7005369**
RGBEV 640 FS	60		1	114.000	**7005385**
RGBEV 650 FS	60		1	134.000	**7005407**
RGBEV 660 FS	60		1	155.900	**7005423**
RGBEV 610 FT	60		1	52.400	**7075103**
RGBEV 615 FT	60		1	60.300	**7075154**
RGBEV 620 FT	60		1	69.300	**7075200**
RGBEV 630 FT	60		1	87.600	**7075308**
RGBEV 640 FT	60		1	123.000	**7075405**
RGBEV 650 FT	60		1	144.000	**7075502**
RGBEV 660 FT	60		1	167.200	**7075596**

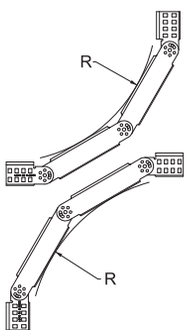
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 FS	100	1.00
RGBEV 615 FS	150	1.00
RGBEV 620 FS	200	1.00
RGBEV 630 FS	300	1.00
RGBEV 640 FS	400	1.00
RGBEV 650 FS	500	1.00
RGBEV 660 FS	600	1.00

Installation



Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	Approx. 600 mm
4	approx. 750 mm
5	Approx. 900 mm

Please order two RGV 60 adjustable connectors separately.

VA VA 2B

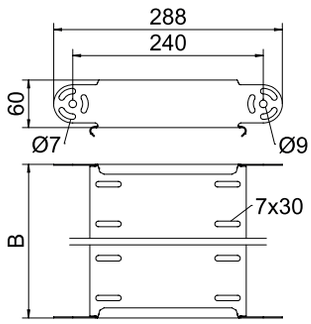
Adjustable vertical bend element 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 A2	60	1	53.300	**7075651**
RGBEV 620 A2	60	1	74.100	**7075653**
RGBEV 630 A2	60	1	94.800	**7075655**
RGBEV 640 A2	60	1	115.500	**7075657**
RGBEV 650 A2	60	1	136.200	**7075659**
RGBEV 660 A2	60	1	157.000	**7075661**
RGBEV 610 A4	60	1	54.000	**7075671**
RGBEV 620 A4	60	1	75.000	**7075673**
RGBEV 630 A4	60	1	96.000	**7075675**
RGBEV 640 A4	60	1	117.000	**7075677**
RGBEV 650 A4	60	1	138.000	**7075679**
RGBEV 660 A4	60	1	159.000	**7075681**

Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 A2	100	1.00
RGBEV 620 A2	200	1.00
RGBEV 630 A2	300	1.00
RGBEV 640 A2	400	1.00
RGBEV 650 A2	500	1.00
RGBEV 660 A2	600	1.00

Dimensions

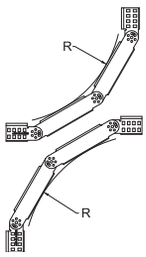


Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 articulated connectors separately.

Installation

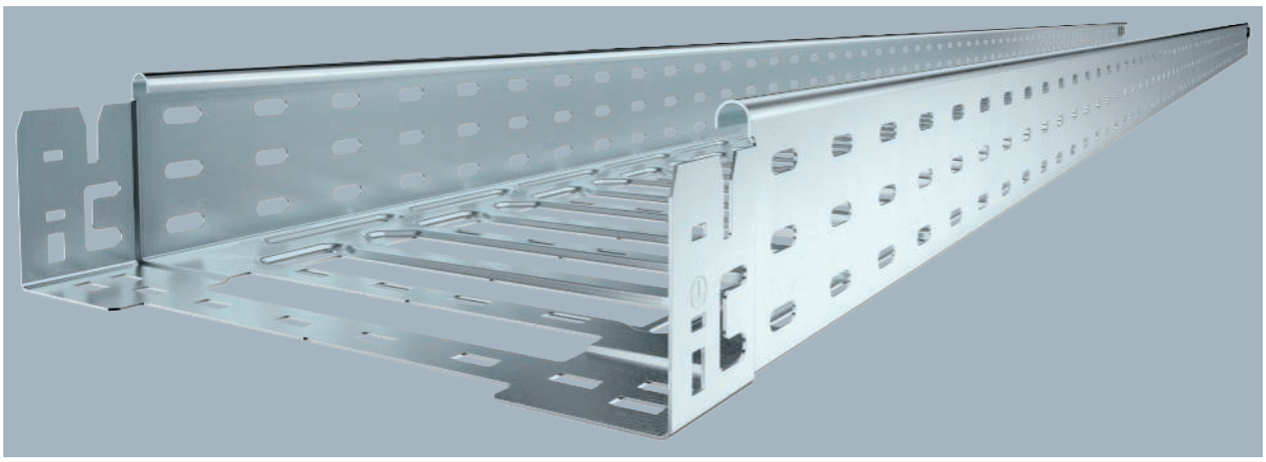


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray MKS-Magic® 85

St FS

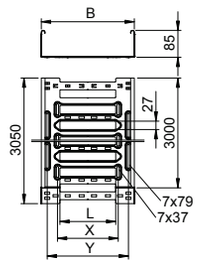


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FS	100	1.00	3	200.000	**6059080**
MKSM 820 FS	200	1.00	3	254.754	**6059084**
MKSM 830 FS	300	1.00	3	292.131	**6059086**
MKSM 840 FS	400	1.00	3	329.508	**6059088**
MKSM 850 FS	500	1.00	3	366.885	**6059090**
MKSM 860 FS	600	1.00	3	403.934	**6059092**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

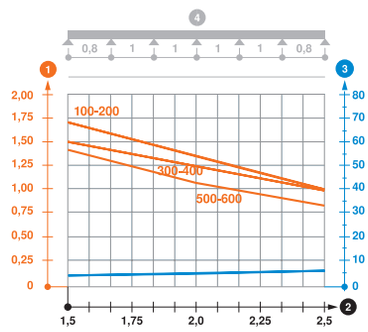
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 810 FS	3050	100	83	30	–	62
MKSM 820 FS	3050	200	186	80	96	162
MKSM 830 FS	3050	300	253	180	196	262
MKSM 840 FS	3050	400	338	280	296	362
MKSM 850 FS	3050	500	423	380	396	462
MKSM 860 FS	3050	600	508	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FS	1.7	1.35	1
MKSM 820 FS	1.7	1.35	1
MKSM 830 FS	1.5	1.25	1
MKSM 840 FS	1.5	1.25	1
MKSM 850 FS	1.4	1.1	0.85
MKSM 860 FS	1.4	1.1	0.85

Load



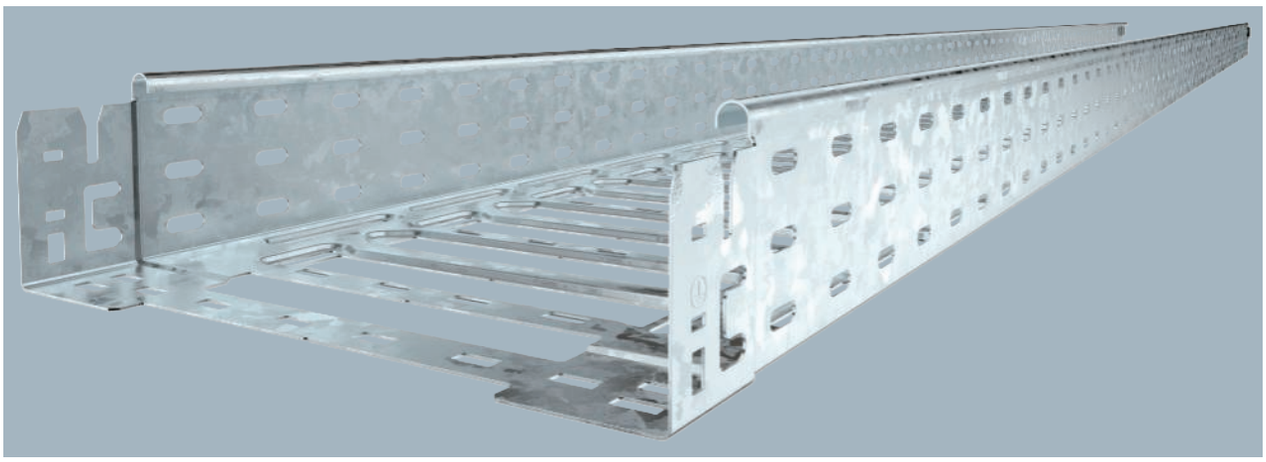
Load diagram, cable tray, type MKSM 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

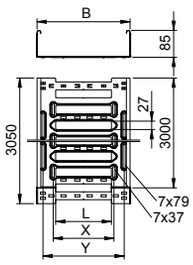
Cable tray MKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

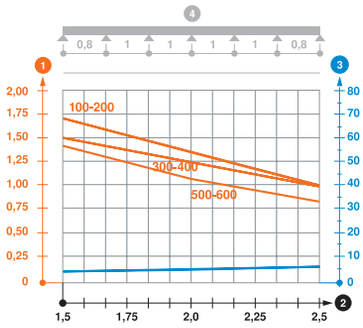
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FT	100	1.00	3	218.032	**6059097**
MKSM 820 FT	200	1.00	3	277.704	**6059101**
MKSM 830 FT	300	1.00	3	318.688	**6059103**
MKSM 840 FT	400	1.00	3	359.344	**6059105**
MKSM 850 FT	500	1.00	3	400.000	**6059107**
MKSM 860 FT	600	1.00	3	440.327	**6059109**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 810 FT	3050	100	83	30	–	62
MKSM 820 FT	3050	200	186	80	96	162
MKSM 830 FT	3050	300	253	180	196	262
MKSM 840 FT	3050	400	338	280	296	362
MKSM 850 FT	3050	500	423	380	396	462
MKSM 860 FT	3050	600	508	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FT	1.7	1.35	1
MKSM 820 FT	1.7	1.35	1
MKSM 830 FT	1.5	1.25	1
MKSM 840 FT	1.5	1.25	1
MKSM 850 FT	1.4	1.1	0.85
MKSM 860 FT	1.4	1.1	0.85

Load diagram, cable tray, type MKSM 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

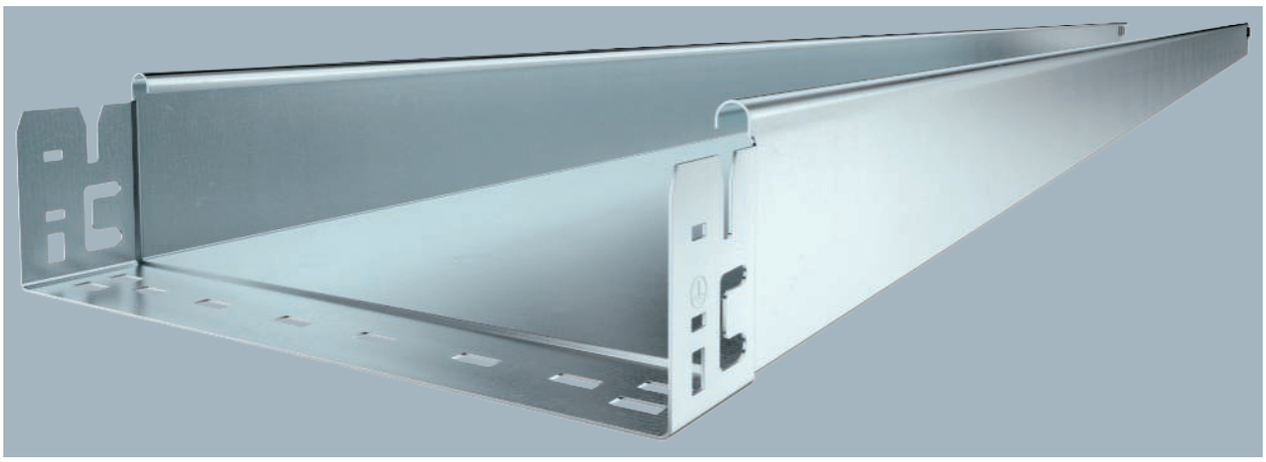
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray MKS-Magic® 85, unperforated

St FS

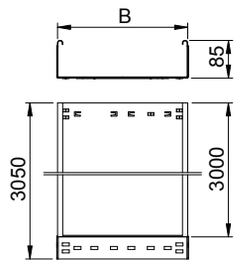


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FS	100	1.00	3	230.721	**6059308**
MKSMU 820 FS	200	1.00	3	309.049	**6059312**
MKSMU 830 FS	300	1.00	3	387.508	**6059314**
MKSMU 840 FS	400	1.00	3	465.934	**6059316**
MKSMU 850 FS	500	1.00	3	544.360	**6059318**
MKSMU 860 FS	600	1.00	3	622.786	**6059320**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

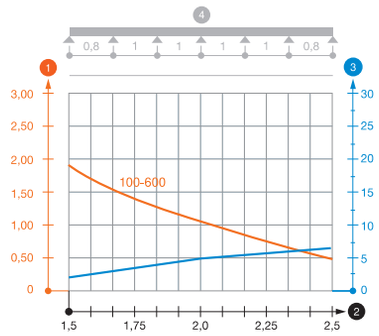
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 810 FS	3050	100	83
MKSMU 820 FS	3050	200	186
MKSMU 830 FS	3050	300	253
MKSMU 840 FS	3050	400	338
MKSMU 850 FS	3050	500	423
MKSMU 860 FS	3050	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FS	1.75	1.1	0.5
MKSMU 820 FS	1.75	1.1	0.5
MKSMU 830 FS	1.75	1.1	0.5
MKSMU 840 FS	1.75	1.1	0.5
MKSMU 850 FS	1.75	1.1	0.5
MKSMU 860 FS	1.75	1.1	0.5

Load



Load diagram, cable tray, type MKSMU 85

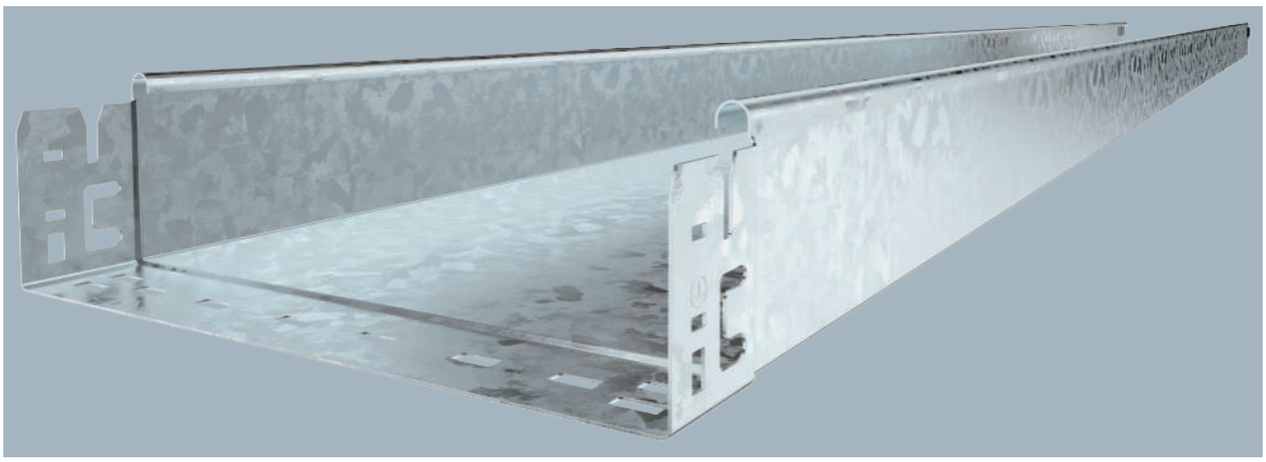
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

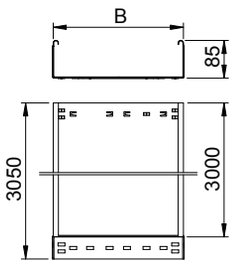
Cable tray MKS-Magic® 85, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

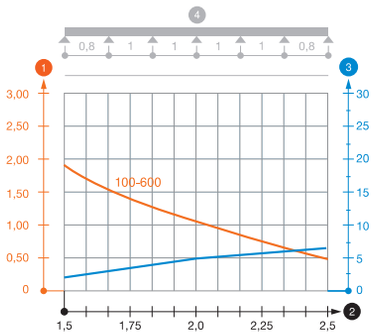
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FT	100	1.00	3	253.606	**6059325**
MKSMU 820 FT	200	1.00	3	339.737	**6059329**
MKSMU 830 FT	300	1.00	3	426.000	**6059331**
MKSMU 840 FT	400	1.00	3	512.229	**6059333**
MKSMU 850 FT	500	1.00	3	598.459	**6059335**
MKSMU 860 FT	600	1.00	3	684.688	**6059337**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 810 FT	3050	100	83
MKSMU 820 FT	3050	200	186
MKSMU 830 FT	3050	300	253
MKSMU 840 FT	3050	400	338
MKSMU 850 FT	3050	500	423
MKSMU 860 FT	3050	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FT	1.75	1.1	0.5
MKSMU 820 FT	1.75	1.1	0.5
MKSMU 830 FT	1.75	1.1	0.5
MKSMU 840 FT	1.75	1.1	0.5
MKSMU 850 FT	1.75	1.1	0.5
MKSMU 860 FT	1.75	1.1	0.5

Load diagram, cable tray, type MKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

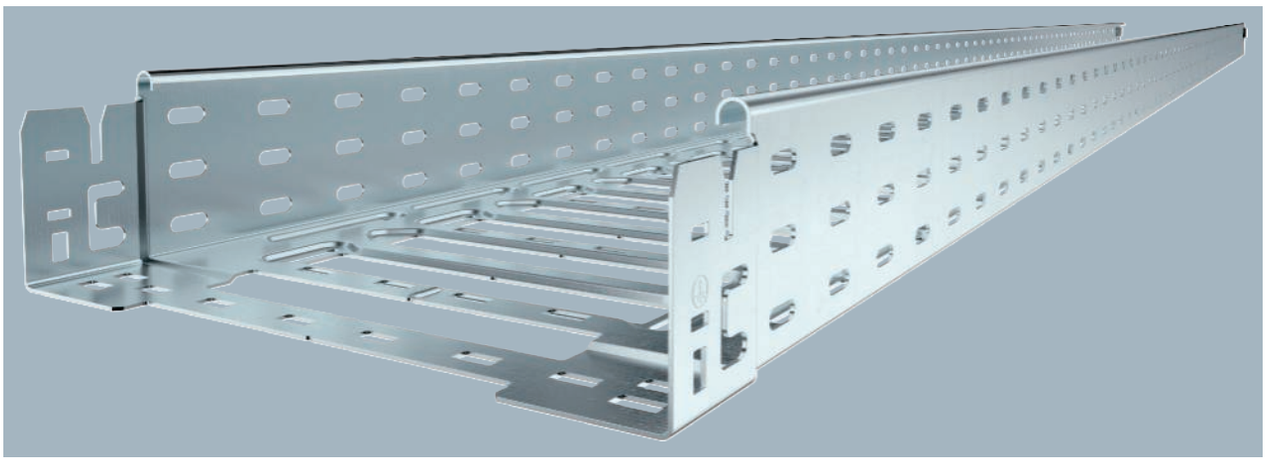
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray SKS-Magic® 85

St FS

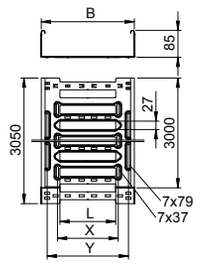


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 810 FS	100	1.50	3	301.836	**6059530**
SKSM 820 FS	200	1.50	3	381.967	**6059534**
SKSM 830 FS	300	1.50	3	438.032	**6059536**
SKSM 840 FS	400	1.50	3	494.098	**6059538**
SKSM 850 FS	500	1.50	3	550.163	**6059540**
SKSM 860 FS	600	1.50	3	605.901	**6059542**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

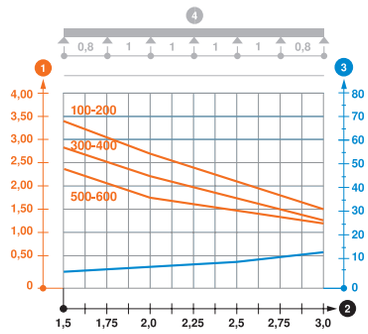
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 810 FS	3050	100	83	30	–	62
SKSM 820 FS	3050	200	186	80	96	162
SKSM 830 FS	3050	300	253	180	196	262
SKSM 840 FS	3050	400	338	280	296	362
SKSM 850 FS	3050	500	423	380	396	462
SKSM 860 FS	3050	600	508	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 810 FS	3.4	2.7	1.5
SKSM 820 FS	3.4	2.7	1.5
SKSM 830 FS	2.8	2.25	1.35
SKSM 840 FS	2.8	2.25	1.35
SKSM 850 FS	2.4	1.75	1.2
SKSM 860 FS	2.4	1.75	1.2

Load



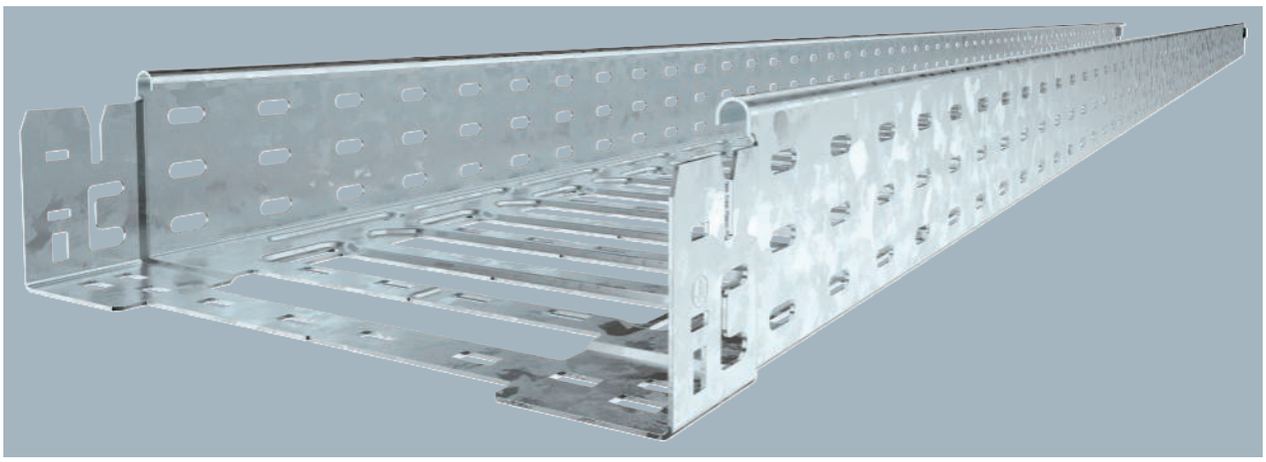
Load diagram, cable tray, type SKSM 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

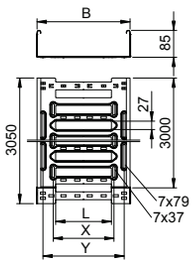
Cable tray SKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

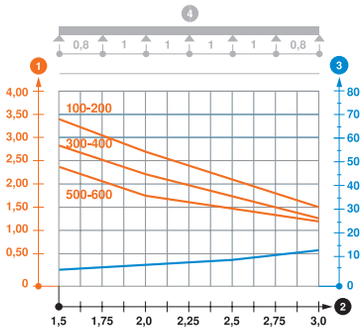
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 810 FT	100	1.50	3	321.868	**6059549**
SKSM 820 FT	200	1.50	3	404.918	**6059553**
SKSM 830 FT	300	1.50	3	464.590	**6059555**
SKSM 840 FT	400	1.50	3	523.934	**6059557**
SKSM 850 FT	500	1.50	3	583.278	**6059559**
SKSM 860 FT	600	1.50	3	642.950	**6059561**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 810 FT	3050	100	83	30	–	62
SKSM 820 FT	3050	200	186	80	96	162
SKSM 830 FT	3050	300	253	180	196	262
SKSM 840 FT	3050	400	338	280	296	362
SKSM 850 FT	3050	500	423	380	396	462
SKSM 860 FT	3050	600	508	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 810 FT	3.4	2.7	1.5
SKSM 820 FT	3.4	2.7	1.5
SKSM 830 FT	2.8	2.25	1.35
SKSM 840 FT	2.8	2.25	1.35
SKSM 850 FT	2.4	1.75	1.2
SKSM 860 FT	2.4	1.75	1.2

Load diagram, cable tray, type SKSM 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray SKS-Magic® 85, unperforated

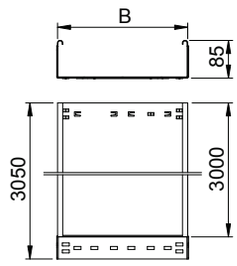
St FS

Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 810 FS	100	1.50	3	345.803	**6059762**
SKSMU 820 FS	200	1.50	3	463.344	**6059766**
SKSMU 830 FS	300	1.50	3	581.016	**6059768**
SKSMU 840 FS	400	1.50	3	698.688	**6059770**
SKSMU 850 FS	500	1.50	3	816.262	**6059772**
SKSMU 860 FS	600	1.50	3	933.934	**6059774**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 810 FS	3050	100	83
SKSMU 820 FS	3050	200	186
SKSMU 830 FS	3050	300	253
SKSMU 840 FS	3050	400	338
SKSMU 850 FS	3050	500	423
SKSMU 860 FS	3050	600	508

Dimensions



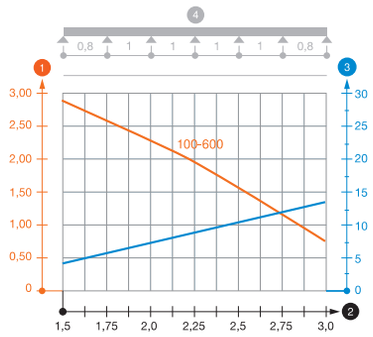
	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 810 FS	2.8	2.25	1.5	0.75
SKSMU 820 FS	2.8	2.25	1.5	0.75
SKSMU 830 FS	2.8	2.25	1.5	0.75
SKSMU 840 FS	2.8	2.25	1.5	0.75
SKSMU 850 FS	2.8	2.25	1.5	0.75
SKSMU 860 FS	2.8	2.25	1.5	0.75

Load diagram, cable tray, type SKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

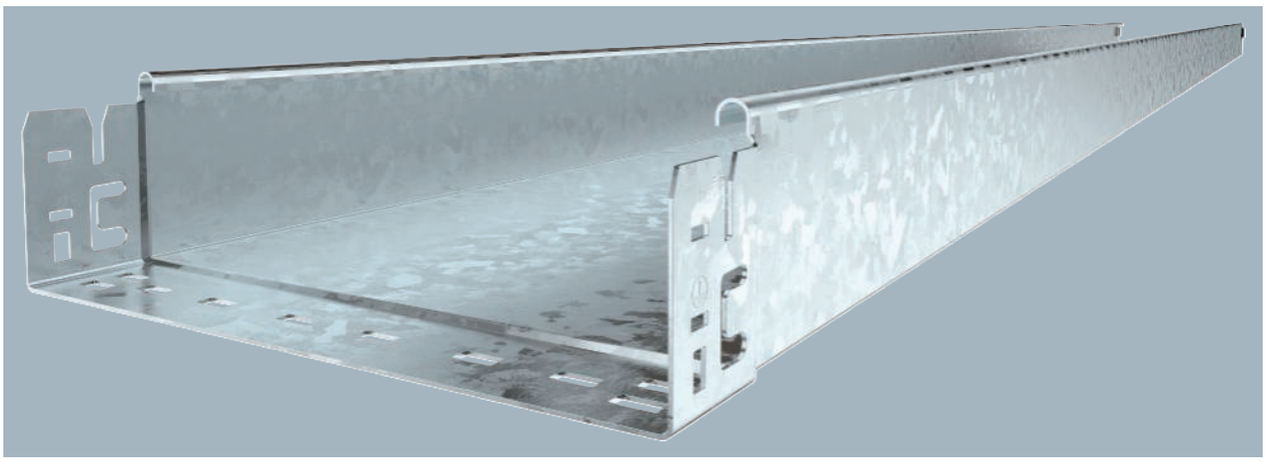
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Load



St FT

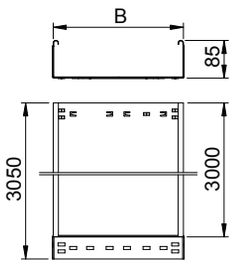
Cable tray SKS-Magic® 85, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

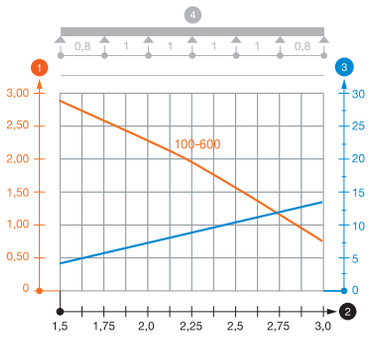
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 810 FT	100	1.50	3	368.819	**6059779**
SKSMU 820 FT	200	1.50	3	494.032	**6059783**
SKSMU 830 FT	300	1.50	3	619.508	**6059785**
SKSMU 840 FT	400	1.50	3	744.983	**6059787**
SKSMU 850 FT	500	1.50	3	848.721	**6059789**
SKSMU 860 FT	600	1.50	3	995.836	**6059791**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 810 FT	3050	100	83
SKSMU 820 FT	3050	200	186
SKSMU 830 FT	3050	300	253
SKSMU 840 FT	3050	400	338
SKSMU 850 FT	3050	500	423
SKSMU 860 FT	3050	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 810 FT	2.8	2.25	1.5	0.75
SKSMU 820 FT	2.8	2.25	1.5	0.75
SKSMU 830 FT	2.8	2.25	1.5	0.75
SKSMU 840 FT	2.8	2.25	1.5	0.75
SKSMU 850 FT	2.8	2.25	1.5	0.75
SKSMU 860 FT	2.8	2.25	1.5	0.75

Load diagram, cable tray, type SKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

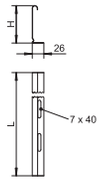
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Separating retainer 85

St FS DD

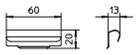


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

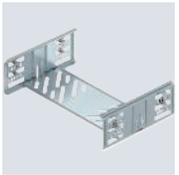


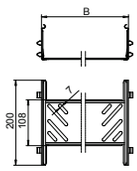
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Magic straight connector set 85

St FS DD





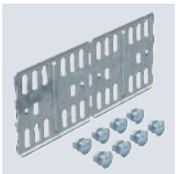
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 810 FS	85	100	1	37.100	6069002
KTSMV 820 FS	85	200	1	43.800	6069006
KTSMV 830 FS	85	300	1	50.600	6069008
KTSMV 840 FS	85	400	1	57.300	6069010
KTSMV 850 FS	85	500	1	64.000	6069012
KTSMV 860 FS	85	600	1	70.800	6069014
KTSMV 810 DD	85	100	1	37.100	6069024
KTSMV 820 DD	85	200	1	43.800	6069028
KTSMV 830 DD	85	300	1	50.600	6069030
KTSMV 840 DD	85	400	1	57.300	6069032
KTSMV 850 DD	85	500	1	64.000	6069034
KTSMV 860 DD	85	600	1	70.800	6069036

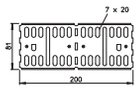
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 85 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

Straight and angle connector 85

St FS FT





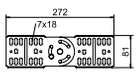
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 85 FS	85	10	27.300	6067123
RLVL 85 FT	85	10	28.300	6067816

Straight and angle connector for cable trays and fittings with a side height of 85 mm.

Including appropriate fastening material.

Adjustable connector 85

St FS FT



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 85 FS	85	10	44.100	7082029
RGV 85 FT	85	10	45.900	7082320

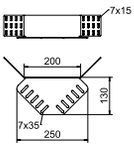
Adjustable connector for cable trays with a side height of 85 mm.

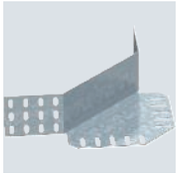
Including appropriate fastening material.

St FS DD

Corner connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 85 FS	85	10	61.000	**6067980**
REV 85 DD	85	1	61.000	**6069320**



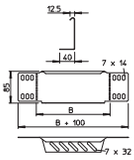


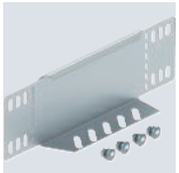
Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

St FS DD

Reducer/stop-end 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 810 FS	85	100	1	12.000	**7110103**
RWEB 820 FS	85	200	1	23.000	**7110200**
RWEB 830 FS	85	300	1	33.000	**7110308**
RWEB 840 FS	85	400	1	43.000	**7110405**
RWEB 850 FS	85	500	1	53.000	**7110502**
RWEB 860 FS	85	600	1	63.000	**7110618**
RWEB 810 DD	85	100	1	12.000	**7107315**
RWEB 820 DD	85	200	1	23.000	**7107331**
RWEB 830 DD	85	300	1	33.000	**7107366**
RWEB 840 DD	85	400	1	43.000	**7107382**
RWEB 850 DD	85	500	1	53.000	**7107404**
RWEB 860 DD	85	600	1	63.000	**7107420**



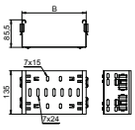


Reducer/stop-end for cable trays with side height 85 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St DD

Magic 85 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 810 DD	85	100	1	37.700	**6065810**
FVM 820 DD	85	200	1	49.800	**6065814**
FVM 830 DD	85	300	1	62.500	**6065816**
FVM 840 DD	85	400	1	75.200	**6065818**
FVM 850 DD	85	500	1	87.400	**6065820**
FVM 860 DD	85	600	1	100.200	**6065822**



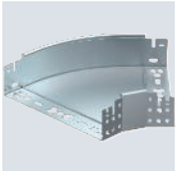
The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 85 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

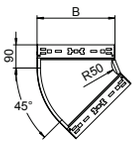
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

45° Magic bend 85

St FS FT



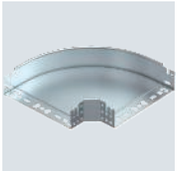


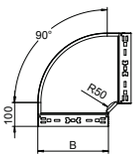
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 810 FS	85	100	1	60.600	6041410
RBM 45 820 FS	85	200	1	98.100	6041412
RBM 45 830 FS	85	300	1	142.300	6041414
RBM 45 840 FS	85	400	1	190.900	6041416
RBM 45 850 FS	85	500	1	250.700	6041418
RBM 45 860 FS	85	600	1	318.200	6041420
RBM 45 810 FT	85	100	1	65.000	6041430
RBM 45 820 FT	85	200	1	105.200	6041432
RBM 45 830 FT	85	300	1	152.600	6041434
RBM 45 840 FT	85	400	1	204.700	6041436
RBM 45 850 FT	85	500	1	268.800	6041438
RBM 45 860 FT	85	600	1	341.200	6041440

45° bend with quick connector system. For all cable tray types of 85 mm side height.

90° Magic bend 85

St FS FT



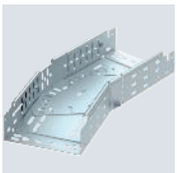


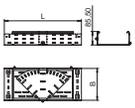
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 810 FS	85	100	1	78.500	6041490
RBM 90 820 FS	85	200	1	138.200	6041492
RBM 90 830 FS	85	300	1	213.300	6041494
RBM 90 840 FS	85	400	1	299.700	6041496
RBM 90 850 FS	85	500	1	405.300	6041498
RBM 90 860 FS	85	600	1	526.400	6041500
RBM 90 810 FT	85	100	1	84.200	6041510
RBM 90 820 FT	85	200	1	148.700	6041512
RBM 90 830 FT	85	300	1	228.700	6041514
RBM 90 840 FT	85	400	1	321.400	6041516
RBM 90 850 FT	85	500	1	434.600	6041518
RBM 90 860 FT	85	600	1	564.500	6041520

90° bend with quick connector system. For all cable tray types of 85 mm side height.

Magic 85 bend, variable

St FS FT





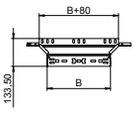
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 810 FS	85	100	340	1	88.500	6040580
RBMV 820 FS	85	200	490	1	185.400	6040584
RBMV 830 FS	85	300	640	1	324.700	6040586
RBMV 840 FS	85	400	820	1	505.500	6040588
RBMV 850 FS	85	500	960	1	1,059.200	6040590
RBMV 860 FS	85	600	1120	1	1,433.700	6040592
RBMV 810 FT	85	100	340	1	100.000	6040600
RBMV 820 FT	85	200	490	1	202.200	6040604
RBMV 830 FT	85	300	640	1	430.300	6040606
RBMV 840 FT	85	400	820	1	676.200	6040608
RBMV 850 FT	85	500	960	1	1,167.800	6040610
RBMV 860 FT	85	600	1120	1	1,520.100	6040612

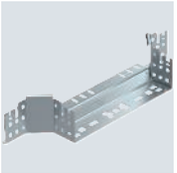
Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Magic 85 add-on tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 810 FS	85	100	1	45.700	6041570
RAAM 820 FS	85	200	1	58.400	6041572
RAAM 830 FS	85	300	1	71.300	6041574
RAAM 840 FS	85	400	1	84.300	6041576
RAAM 850 FS	85	500	1	97.100	6041578
RAAM 860 FS	85	600	1	110.500	6041580
RAAM 810 FT	85	100	1	49.000	6041590
RAAM 820 FT	85	200	1	62.600	6041592
RAAM 830 FT	85	300	1	76.500	6041594
RAAM 840 FT	85	400	1	90.400	6041596
RAAM 850 FT	85	500	1	104.100	6041598
RAAM 860 FT	85	600	1	118.500	6041600



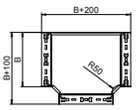


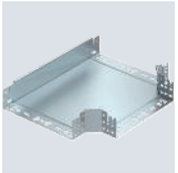
Add-on tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Magic 85 T branch piece

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 810 FS	85	100	1	98.700	6041660
RTM 820 FS	85	200	1	168.200	6041662
RTM 830 FS	85	300	1	255.800	6041664
RTM 840 FS	85	400	1	358.100	6041666
RTM 850 FS	85	500	1	485.400	6041668
RTM 860 FS	85	600	1	632.400	6041670
RTM 810 FT	85	100	1	105.800	6041680
RTM 820 FT	85	200	1	180.400	6041682
RTM 830 FT	85	300	1	274.300	6041684
RTM 840 FT	85	400	1	384.000	6041686
RTM 850 FT	85	500	1	520.500	6041688
RTM 860 FT	85	600	1	678.200	6041690



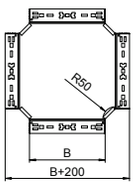


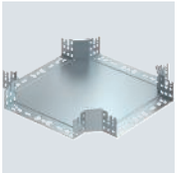
Tee with quick connector system. For all cable tray types of 85 mm side height.

St FS FT

Magic 85 cross-over

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 810 FS	85	100	1	108.700	7027081
RKM 820 FS	85	200	1	176.300	7027085
RKM 830 FS	85	300	1	261.600	7027087
RKM 840 FS	85	400	1	358.900	7027089
RKM 850 FS	85	500	1	483.800	7027091
RKM 860 FS	85	600	1	628.400	7027093
RKM 810 FT	85	100	1	116.600	7027101
RKM 820 FT	85	200	1	189.100	7027105
RKM 830 FT	85	300	1	280.500	7027107
RKM 840 FT	85	400	1	384.900	7027109
RKM 850 FT	85	500	1	518.900	7027111
RKM 860 FT	85	600	1	673.900	7027113



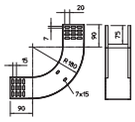


Cross-over with quick connector system. For all cable tray types of 85 mm side height.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

90° vertical bend, rising 85

St FS FT

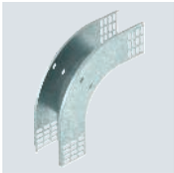


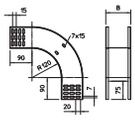
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 S FS	85	100	1	97.100	**7007230**
RBV 820 S FS	85	200	1	132.600	**7007234**
RBV 830 S FS	85	300	1	156.200	**7007238**
RBV 840 S FS	85	400	1	179.900	**7007242**
RBV 850 S FS	85	500	1	203.500	**7007246**
RBV 860 S FS	85	600	1	227.100	**7007250**
RBV 810 S FT	85	100	1	97.100	**7007231**
RBV 820 S FT	85	200	1	132.600	**7007235**
RBV 830 S FT	85	300	1	156.200	**7007239**
RBV 840 S FT	85	400	1	179.900	**7007243**
RBV 850 S FT	85	500	1	203.500	**7007247**
RBV 860 S FT	85	600	1	227.100	**7007251**

90° rising vertical bend, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling 85

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 F FS	85	100	1	86.600	**7007270**
RBV 820 F FS	85	200	1	104.200	**7007274**
RBV 830 F FS	85	300	1	121.800	**7007278**
RBV 840 F FS	85	400	1	139.500	**7007282**
RBV 850 F FS	85	500	1	157.100	**7007286**
RBV 860 F FS	85	600	1	174.700	**7007290**
RBV 810 F FT	85	100	1	86.600	**7007271**
RBV 820 F FT	85	200	1	104.200	**7007275**
RBV 830 F FT	85	300	1	121.800	**7007279**
RBV 840 F FT	85	400	1	139.500	**7007283**
RBV 850 F FT	85	500	1	157.100	**7007287**
RBV 860 F FT	85	600	1	174.700	**7007291**

90° vertical bend, falling, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

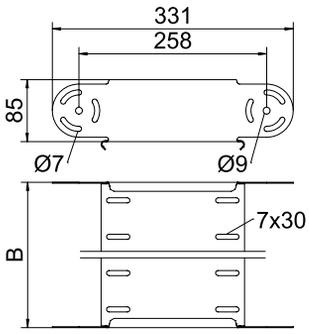
Adjustable bend element, vertical 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 810 FS	85	1	71.500	**7005466**
RGBEV 820 FS	85	1	91.900	**7005482**
RGBEV 830 FS	85	1	112.400	**7005504**
RGBEV 840 FS	85	1	133.000	**7005520**
RGBEV 850 FS	85	1	153.100	**7005547**
RGBEV 860 FS	85	1	173.400	**7005563**
RGBEV 810 FT	85	1	76.700	**7076096**
RGBEV 820 FT	85	1	98.500	**7076207**
RGBEV 830 FT	85	1	120.500	**7076304**
RGBEV 840 FT	85	1	142.000	**7076401**
RGBEV 850 FT	85	1	164.100	**7076509**
RGBEV 860 FT	85	1	185.900	**7076606**

Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thick-ness mm
RGBEV 810 FS	100	1.00
RGBEV 820 FS	200	1.00
RGBEV 830 FS	300	1.00
RGBEV 840 FS	400	1.00
RGBEV 850 FS	500	1.00
RGBEV 860 FS	600	1.00

Dimensions

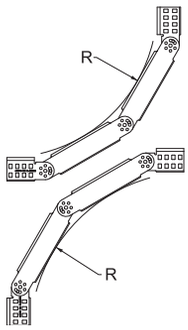


Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 adjustable connectors separately.

Installation

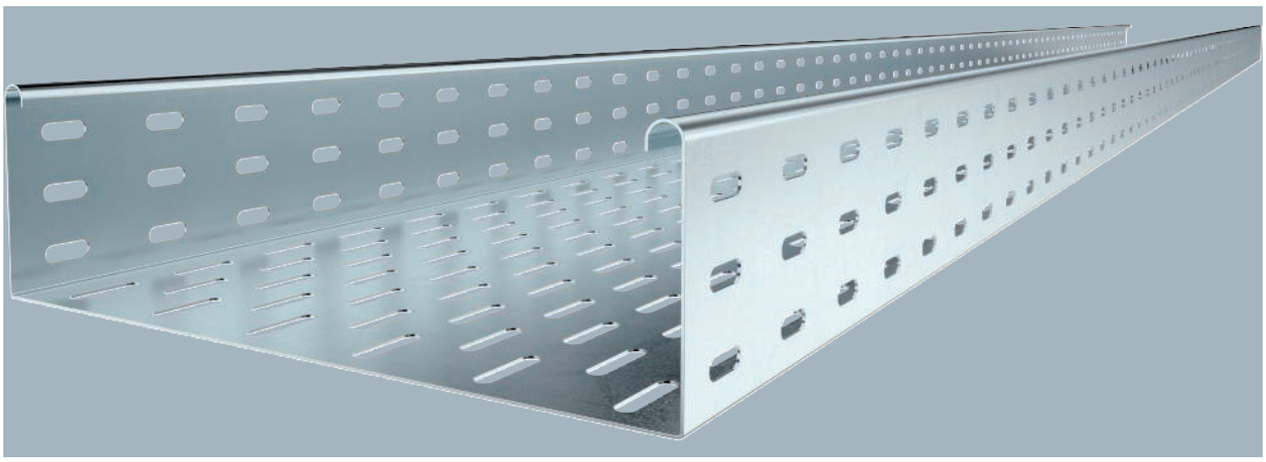


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray MKS 85

St FS



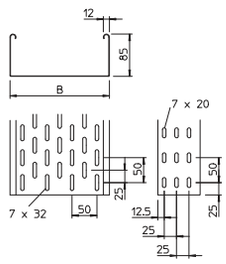
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKS 810 FS	100	1.00	3	207.670	**6057101**
MKS 820 FS	200	1.00	3	292.334	**6057209**
MKS 830 FS	300	1.00	3	357.667	**6057306**
MKS 840 FS	400	1.00	3	423.000	**6057403**
MKS 850 FS	500	1.00	3	488.000	**6057500**
MKS 860 FS	600	1.00	3	553.000	**6057535**

Including connector, type RLVL 85.

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

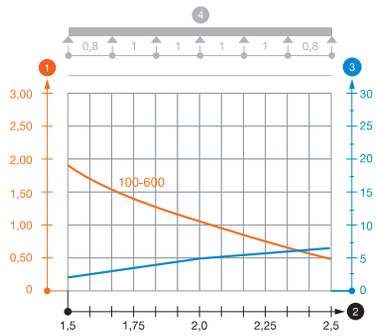
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 810 FS	3000	100	83
MKS 820 FS	3000	200	186
MKS 830 FS	3000	300	253
MKS 840 FS	3000	400	338
MKS 850 FS	3000	500	423
MKS 860 FS	3000	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 810 FS	1.75	1.1	0.5
MKS 820 FS	1.75	1.1	0.5
MKS 830 FS	1.75	1.1	0.5
MKS 840 FS	1.75	1.1	0.5
MKS 850 FS	1.75	1.1	0.5
MKS 860 FS	1.75	1.1	0.5

Load



Load diagram, cable tray, type MKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

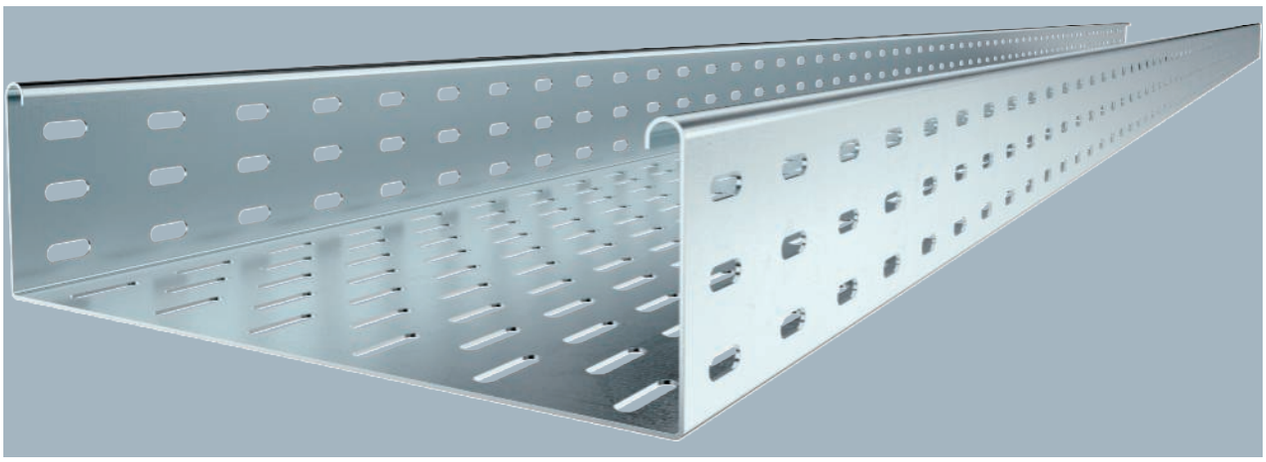
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

* From width 300 mm, tested with joint plate SSLB

St FS

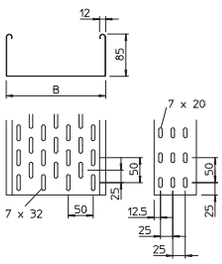
Cable tray SKS 85



FS version includes connector, type RLVL 85.
SKS 85 = heavy-duty cable tray system with 85 mm side height.

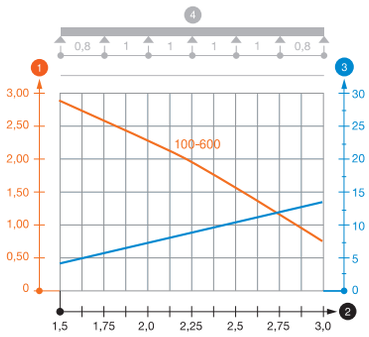
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 810 FS	100	1.50	3	310.340	**6058108**
SKS 820 FS	200	1.50	3	429.000	**6058205**
SKS 830 FS	300	1.50	3	527.000	**6058302**
SKS 840 FS	400	1.50	3	624.000	**6058396**
SKS 850 FS	500	1.50	3	721.667	**6058507**
SKS 860 FS	600	1.50	3	821.000	**6058604**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 810 FS	3000	100	83
SKS 820 FS	3000	200	186
SKS 830 FS	3000	300	253
SKS 840 FS	3000	400	338
SKS 850 FS	3000	500	423
SKS 860 FS	3000	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FS	2.8	2.25	1.5	0.75
SKS 820 FS	2.8	2.25	1.5	0.75
SKS 830 FS	2.8	2.25	1.5	0.75
SKS 840 FS	2.8	2.25	1.5	0.75
SKS 850 FS	2.8	2.25	1.5	0.75
SKS 860 FS	2.8	2.25	1.5	0.75

Load diagram, cable tray, type SKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

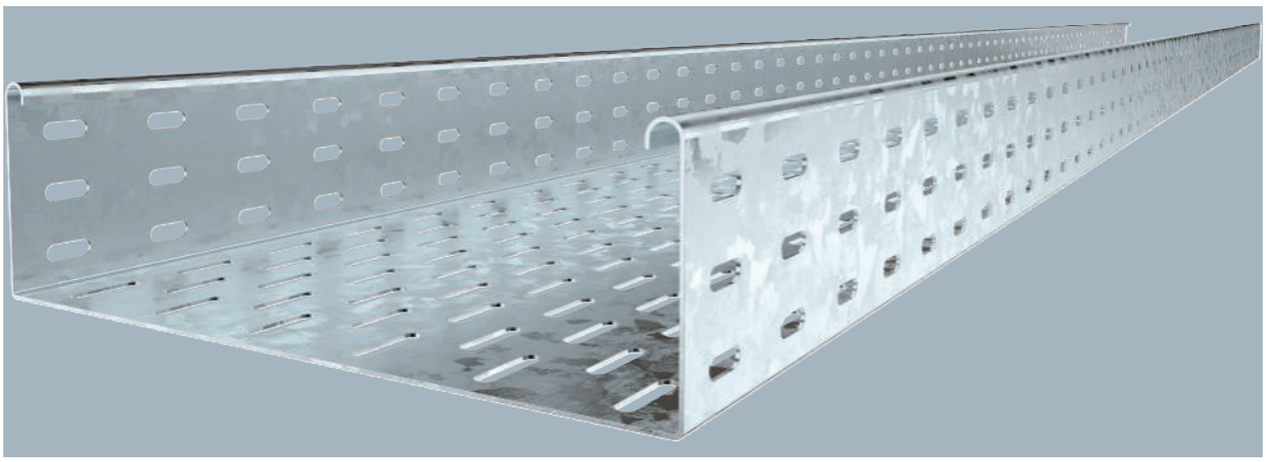
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Cable tray SKS 85

St FT

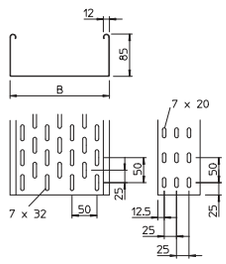


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 810 FT	100	1.50	3	334.000	**6058620**
SKS 820 FT	200	1.50	3	438.340	**6058647**
SKS 830 FT	300	1.50	3	543.000	**6058663**
SKS 840 FT	400	1.50	3	644.000	**6058698**
SKS 850 FT	500	1.50	3	750.340	**6058728**
SKS 860 FT	600	1.50	3	856.670	**6058744**

SKS 85 = heavy-duty cable tray system with 85 mm side height.

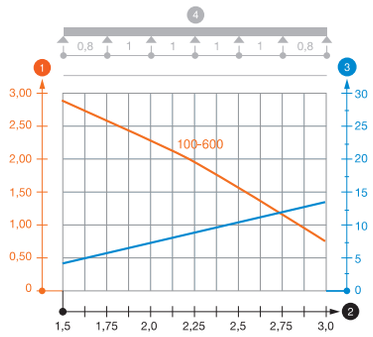
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 810 FT	3000	100	83
SKS 820 FT	3000	200	186
SKS 830 FT	3000	300	253
SKS 840 FT	3000	400	338
SKS 850 FT	3000	500	423
SKS 860 FT	3000	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FT	2.8	2.25	1.5	0.75
SKS 820 FT	2.8	2.25	1.5	0.75
SKS 830 FT	2.8	2.25	1.5	0.75
SKS 840 FT	2.8	2.25	1.5	0.75
SKS 850 FT	2.8	2.25	1.5	0.75
SKS 860 FT	2.8	2.25	1.5	0.75

Load



Load diagram, cable tray, type SKS 85

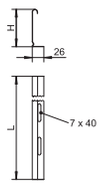
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Separating retainer 60

St FS DD



Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**

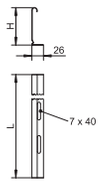
Separating retainer for separation of cables of different voltages or functions.

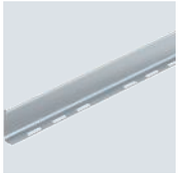
St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.



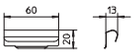


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

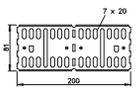


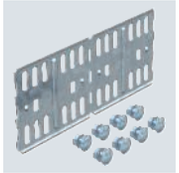
St FS FT

Straight and angle connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 85 FS	85	10	27.300	**6067123**
RLVL 85 FT	85	10	28.300	**6067816**

Straight and angle connector for cable trays and fittings with a side height of 85 mm.
Including appropriate fastening material.



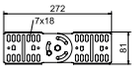


St FS FT

Adjustable connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 85 FS	85	10	44.100	**7082029**
RGV 85 FT	85	10	45.900	**7082320**

Adjustable connector for cable trays with a side height of 85 mm.
Including appropriate fastening material.

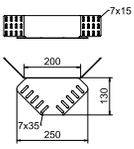


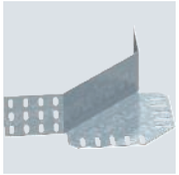
St FS DD

Corner connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 85 FS	85	10	61.000	**6067980**
REV 85 DD	85	1	61.000	**6069320**

Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.



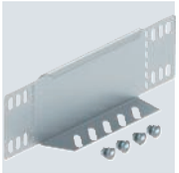


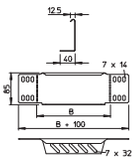
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Reducer/stop-end 85

St FS DD



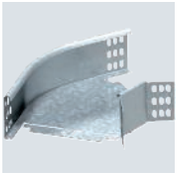


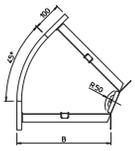
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 810 FS	85	100	1	12.000	**7110103**
RWEB 820 FS	85	200	1	23.000	**7110200**
RWEB 830 FS	85	300	1	33.000	**7110308**
RWEB 840 FS	85	400	1	43.000	**7110405**
RWEB 850 FS	85	500	1	53.000	**7110502**
RWEB 860 FS	85	600	1	63.000	**7110618**
RWEB 810 DD	85	100	1	12.000	**7107315**
RWEB 820 DD	85	200	1	23.000	**7107331**
RWEB 830 DD	85	300	1	33.000	**7107366**
RWEB 840 DD	85	400	1	43.000	**7107382**
RWEB 850 DD	85	500	1	53.000	**7107404**
RWEB 860 DD	85	600	1	63.000	**7107420**

Reducer/stop-end for cable trays with side height 85 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

45° bend 85

St FS FT



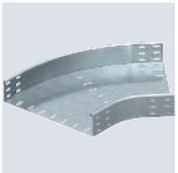


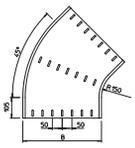
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 810 FS	85	100	1	60.000	**7000472**
RB 45 820 FS	85	200	1	85.000	**7000499**
RB 45 830 FS	85	300	1	120.000	**7000510**
RB 45 810 FT	85	100	1	65.000	**7067119**
RB 45 820 FT	85	200	1	90.000	**7067216**
RB 45 830 FT	85	300	1	130.000	**7067313**

45° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state. The WKV 85 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend 85

St FS FT



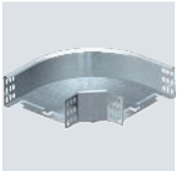


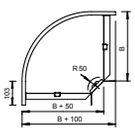
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 840 FS	85	400	1	320.000	**7000529**
RB 45 850 FS	85	500	1	380.000	**7000545**
RB 45 860 FS	85	600	1	490.000	**7000561**
RB 45 840 FT	85	400	1	340.000	**7067402**
RB 45 850 FT	85	500	1	400.000	**7067496**
RB 45 860 FT	85	600	1	525.000	**7067607**

45° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

90° bend 85

St FS FT





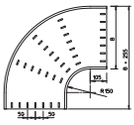
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 810 FS	85	100	1	65.000	**7001762**
RB 90 820 FS	85	200	1	150.000	**7001789**
RB 90 830 FS	85	300	1	180.000	**7001800**
RB 90 810 FT	85	100	1	70.000	**7126127**
RB 90 820 FT	85	200	1	160.000	**7126216**
RB 90 830 FT	85	300	1	200.000	**7126301**

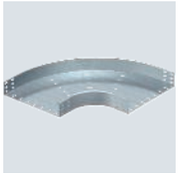
90° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

90° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 840 FS	85	400	1	500.000	**7001819**
RB 90 850 FS	85	500	1	650.000	**7001835**
RB 90 860 FS	85	600	1	820.000	**7001851**
RB 90 840 FT	85	400	1	540.000	**7126417**
RB 90 850 FT	85	500	1	690.000	**7126514**
RB 90 860 FT	85	600	1	870.000	**7126611**



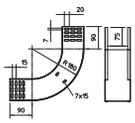


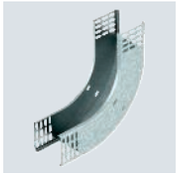
90° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, rising 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 S FS	85	100	1	97.100	**7007230**
RBV 820 S FS	85	200	1	132.600	**7007234**
RBV 830 S FS	85	300	1	156.200	**7007238**
RBV 840 S FS	85	400	1	179.900	**7007242**
RBV 850 S FS	85	500	1	203.500	**7007246**
RBV 860 S FS	85	600	1	227.100	**7007250**
RBV 810 S FT	85	100	1	97.100	**7007231**
RBV 820 S FT	85	200	1	132.600	**7007235**
RBV 830 S FT	85	300	1	156.200	**7007239**
RBV 840 S FT	85	400	1	179.900	**7007243**
RBV 850 S FT	85	500	1	203.500	**7007247**
RBV 860 S FT	85	600	1	227.100	**7007251**



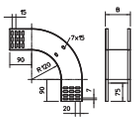


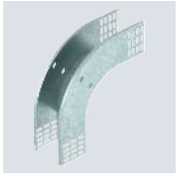
90° rising vertical bend, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, falling 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 810 F FS	85	100	1	86.600	**7007270**
RBV 820 F FS	85	200	1	104.200	**7007274**
RBV 830 F FS	85	300	1	121.800	**7007278**
RBV 840 F FS	85	400	1	139.500	**7007282**
RBV 850 F FS	85	500	1	157.100	**7007286**
RBV 860 F FS	85	600	1	174.700	**7007290**
RBV 810 F FT	85	100	1	86.600	**7007271**
RBV 820 F FT	85	200	1	104.200	**7007275**
RBV 830 F FT	85	300	1	121.800	**7007279**
RBV 840 F FT	85	400	1	139.500	**7007283**
RBV 850 F FT	85	500	1	157.100	**7007287**
RBV 860 F FT	85	600	1	174.700	**7007291**





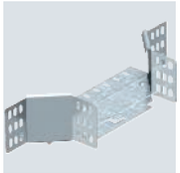
90° vertical bend, falling, for all cable tray types of 85 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

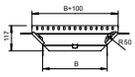
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 85

Add-on tee 85

St FS FT



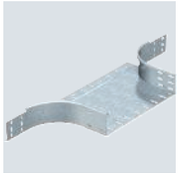


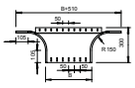
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 810 FS	85	100	1	40.000	**7002475**
RAA 820 FS	85	200	1	45.000	**7002491**
RAA 830 FS	85	300	1	60.000	**7002513**
RAA 810 FT	85	100	1	45.000	**7122109**
RAA 820 FT	85	200	1	50.000	**7122213**
RAA 830 FT	85	300	1	65.000	**7122310**

Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

Add-on tee 85

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 840 FS	85	400	1	230.000	**7002521**
RAA 850 FS	85	500	1	265.000	**7002556**
RAA 860 FS	85	600	1	295.000	**7002572**
RAA 840 FT	85	400	1	250.000	**7122403**
RAA 850 FT	85	500	1	290.000	**7122500**
RAA 860 FT	85	600	1	320.000	**7122608**

Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS FT

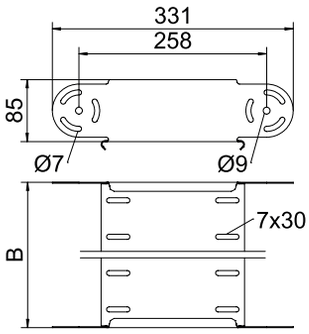
Adjustable bend element, vertical 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 810 FS	85	1	71.500	**7005466**
RGBEV 820 FS	85	1	91.900	**7005482**
RGBEV 830 FS	85	1	112.400	**7005504**
RGBEV 840 FS	85	1	133.000	**7005520**
RGBEV 850 FS	85	1	153.100	**7005547**
RGBEV 860 FS	85	1	173.400	**7005563**
RGBEV 810 FT	85	1	76.700	**7076096**
RGBEV 820 FT	85	1	98.500	**7076207**
RGBEV 830 FT	85	1	120.500	**7076304**
RGBEV 840 FT	85	1	142.000	**7076401**
RGBEV 850 FT	85	1	164.100	**7076509**
RGBEV 860 FT	85	1	185.900	**7076606**

Adjustable vertical bend element, for all cable tray types with a side height of 85 mm.
RGV 85 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Dim. B mm	Metal thick-ness mm
RGBEV 810 FS	100	1.00
RGBEV 820 FS	200	1.00
RGBEV 830 FS	300	1.00
RGBEV 840 FS	400	1.00
RGBEV 850 FS	500	1.00
RGBEV 860 FS	600	1.00

Dimensions

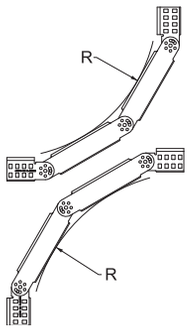


Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 85 adjustable connectors separately.

Installation

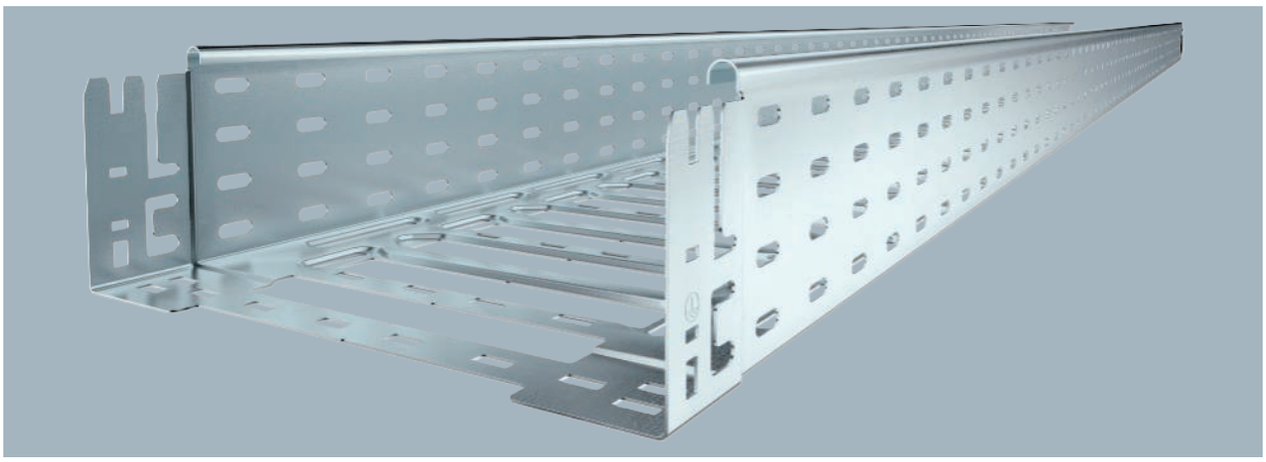


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray MKS-Magic® 110

St FS

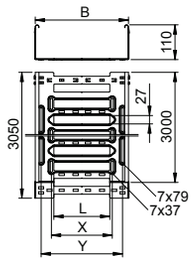


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 FS	100	1.00	3	236.819	**6059156**
MKSM 120 FS	200	1.00	3	293.114	**6059160**
MKSM 130 FS	300	1.00	3	331.081	**6059162**
MKSM 140 FS	400	1.00	3	369.049	**6059164**
MKSM 150 FS	500	1.00	3	406.983	**6059166**
MKSM 160 FS	600	1.00	3	444.983	**6059168**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

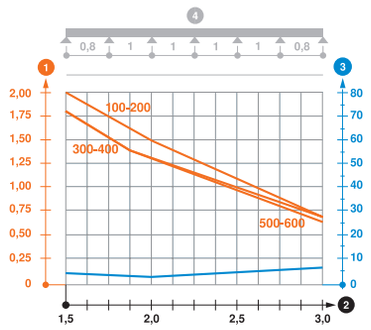
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 110 FS	3050	100	108	30	–	62
MKSM 120 FS	3050	200	218	80	96	162
MKSM 130 FS	3050	300	328	180	196	262
MKSM 140 FS	3050	400	438	280	296	362
MKSM 150 FS	3050	500	548	380	396	462
MKSM 160 FS	3050	600	655	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FS	2	1.5	0.7
MKSM 120 FS	2	1.5	0.7
MKSM 130 FS	1.8	1.3	0.7
MKSM 140 FS	1.8	1.3	0.7
MKSM 150 FS	1.8	1.3	0.65
MKSM 160 FS	1.8	1.3	0.65

Load



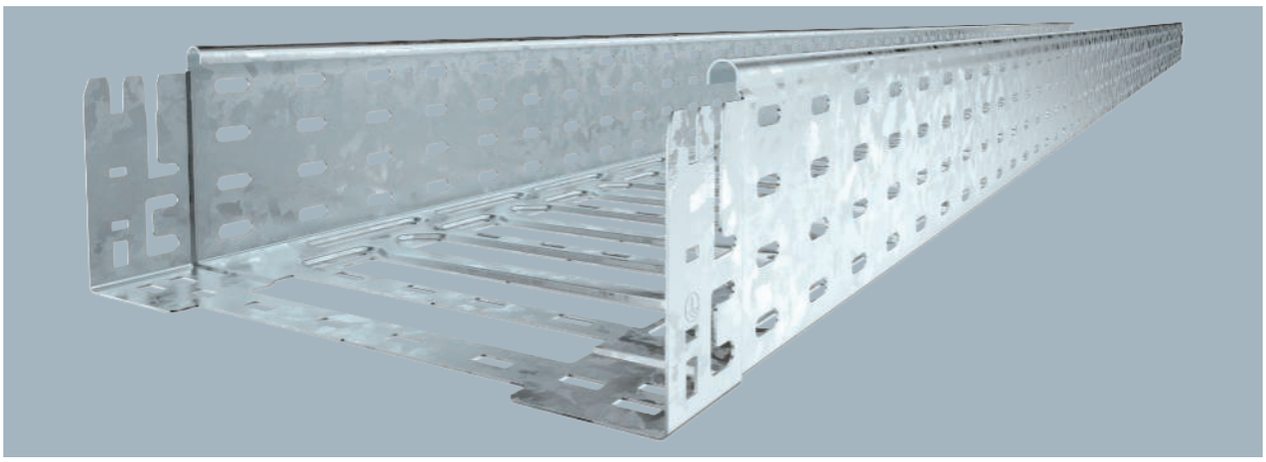
Load diagram, cable tray, type MKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

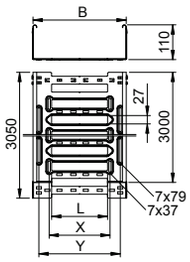
Cable tray MKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

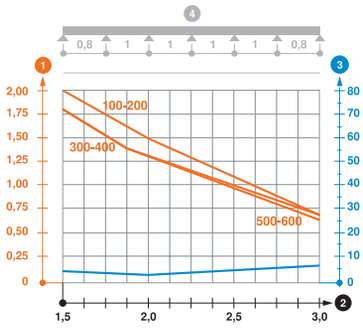
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 110 FT	100	1.00	3	260.327	**6059173**
MKSM 120 FT	200	1.00	3	322.229	**6059177**
MKSM 130 FT	300	1.00	3	363.967	**6059179**
MKSM 140 FT	400	1.00	3	405.737	**6059181**
MKSM 150 FT	500	1.00	3	447.442	**6059183**
MKSM 160 FT	600	1.00	3	489.180	**6059185**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 110 FT	3050	100	108	30	–	62
MKSM 120 FT	3050	200	218	80	96	162
MKSM 130 FT	3050	300	328	180	196	262
MKSM 140 FT	3050	400	438	280	296	362
MKSM 150 FT	3050	500	548	380	396	462
MKSM 160 FT	3050	600	655	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FT	2	1.5	0.7
MKSM 120 FT	2	1.5	0.7
MKSM 130 FT	1.8	1.3	0.7
MKSM 140 FT	1.8	1.3	0.7
MKSM 150 FT	1.8	1.3	0.65
MKSM 160 FT	1.8	1.3	0.65

Load diagram, cable tray, type MKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

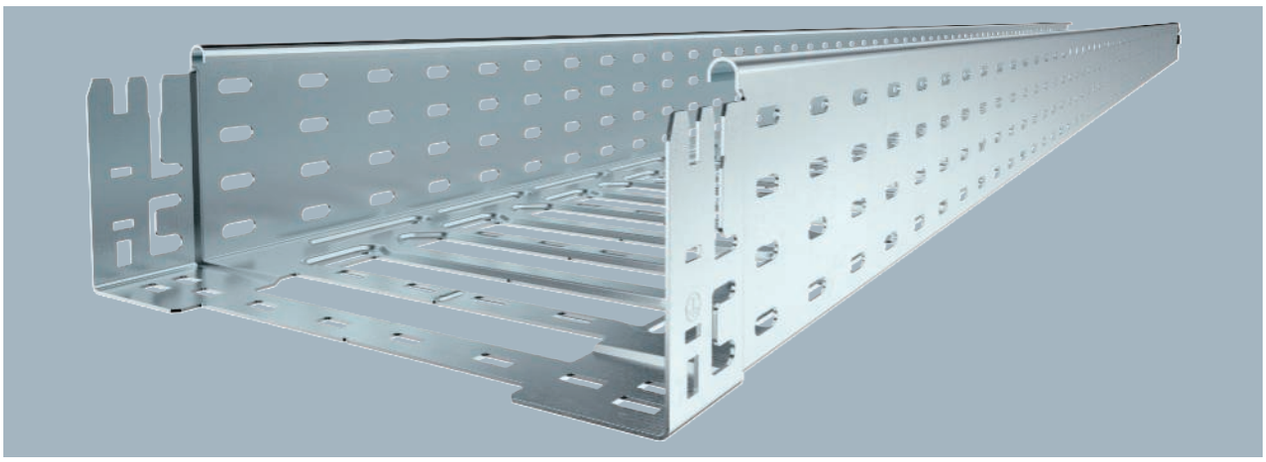
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray SKS-Magic® 110

St FS

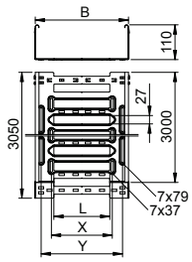


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 110 FS	100	1.50	3	353.114	**6059614**
SKSM 120 FS	200	1.50	3	434.754	**6059618**
SKSM 130 FS	300	1.50	3	490.819	**6059620**
SKSM 140 FS	400	1.50	3	546.885	**6059622**
SKSM 150 FS	500	1.50	3	602.950	**6059624**
SKSM 160 FS	600	1.50	3	667.278	**6059626**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

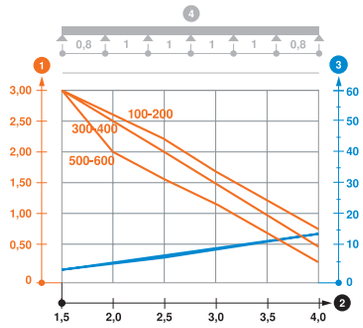
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 110 FS	3050	100	108	30	–	62
SKSM 120 FS	3050	200	218	80	96	162
SKSM 130 FS	3050	300	328	180	196	262
SKSM 140 FS	3050	400	438	280	296	362
SKSM 150 FS	3050	500	548	380	396	462
SKSM 160 FS	3050	600	655	480	496	562

Dimensions



	1.5 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSM 110 FS	3	1.7	0.8
SKSM 120 FS	3	1.7	0.8
SKSM 130 FS	3	1.5	0.5
SKSM 140 FS	3	1.5	0.5
SKSM 150 FS	3	1.2	0.3
SKSM 160 FS	3	1.2	0.3

Load



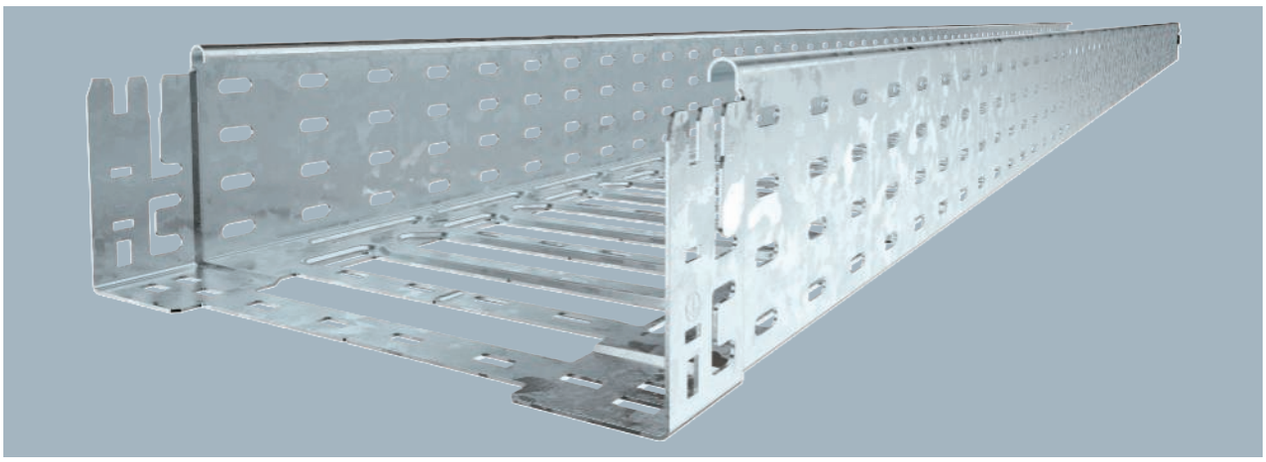
Load diagram, cable tray, type SKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

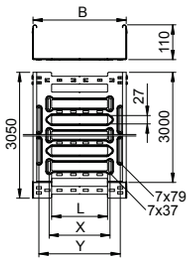
Cable tray SKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

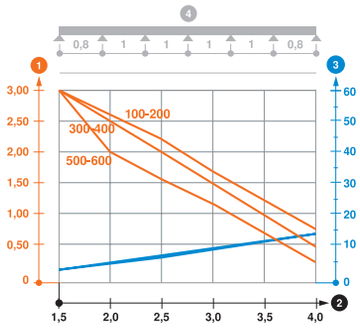
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKSM 110 FT	100	1.50	3	374.426	**6059631**
SKSM 120 FT	200	1.50	3	460.983	**6059635**
SKSM 130 FT	300	1.50	3	520.327	**6059637**
SKSM 140 FT	400	1.50	3	580.000	**6059639**
SKSM 150 FT	500	1.50	3	639.344	**6059641**
SKSM 160 FT	600	1.50	3	711.508	**6059643**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 110 FT	3050	100	108	30	–	62
SKSM 120 FT	3050	200	218	80	96	162
SKSM 130 FT	3050	300	328	180	196	262
SKSM 140 FT	3050	400	438	280	296	362
SKSM 150 FT	3050	500	548	380	396	462
SKSM 160 FT	3050	600	655	480	496	562

Load



	1.5 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSM 110 FT	3	1.7	0.8
SKSM 120 FT	3	1.7	0.8
SKSM 130 FT	3	1.5	0.5
SKSM 140 FT	3	1.5	0.5
SKSM 150 FT	3	1.2	0.3
SKSM 160 FT	3	1.2	0.3

Load diagram, cable tray, type SKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

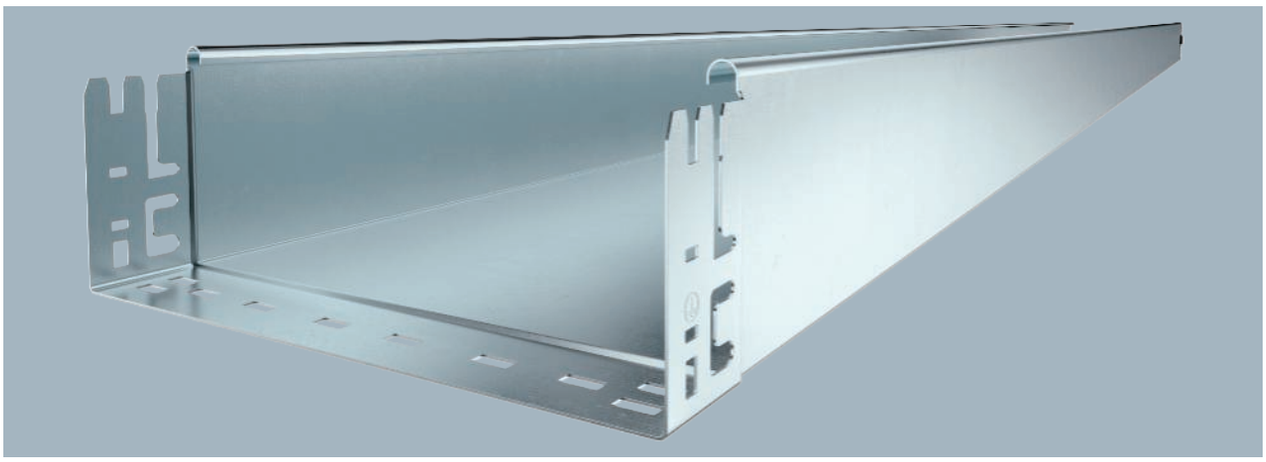
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray MKS-Magic® 110, unperforated

St FS

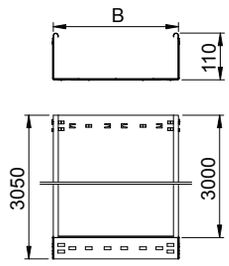


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 FS	100	1.00	3	269.672	**6059382**
MKSMU 120 FS	200	1.00	3	348.032	**6059386**
MKSMU 130 FS	300	1.00	3	426.459	**6059388**
MKSMU 140 FS	400	1.00	3	504.918	**6059390**
MKSMU 150 FS	500	1.00	3	583.311	**6059392**
MKSMU 160 FS	600	1.00	3	661.770	**6059394**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

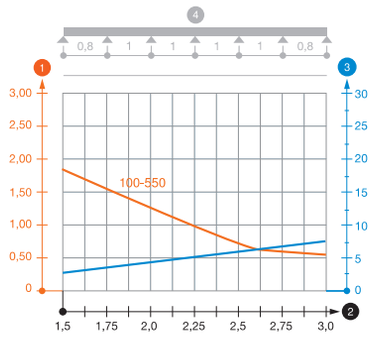
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 110 FS	3050	100	108
MKSMU 120 FS	3050	200	218
MKSMU 130 FS	3050	300	328
MKSMU 140 FS	3050	400	438
MKSMU 150 FS	3050	500	548
MKSMU 160 FS	3050	600	655

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FS	1.85	1.3	0.75	0.6
MKSMU 120 FS	1.85	1.3	0.75	0.6
MKSMU 130 FS	1.85	1.3	0.75	0.6
MKSMU 140 FS	1.85	1.3	0.75	0.6
MKSMU 150 FS	1.85	1.3	0.75	0.6
MKSMU 160 FS	1.85	1.3	0.75	0.6

Load



Load diagram, cable tray, type MKSMU 110

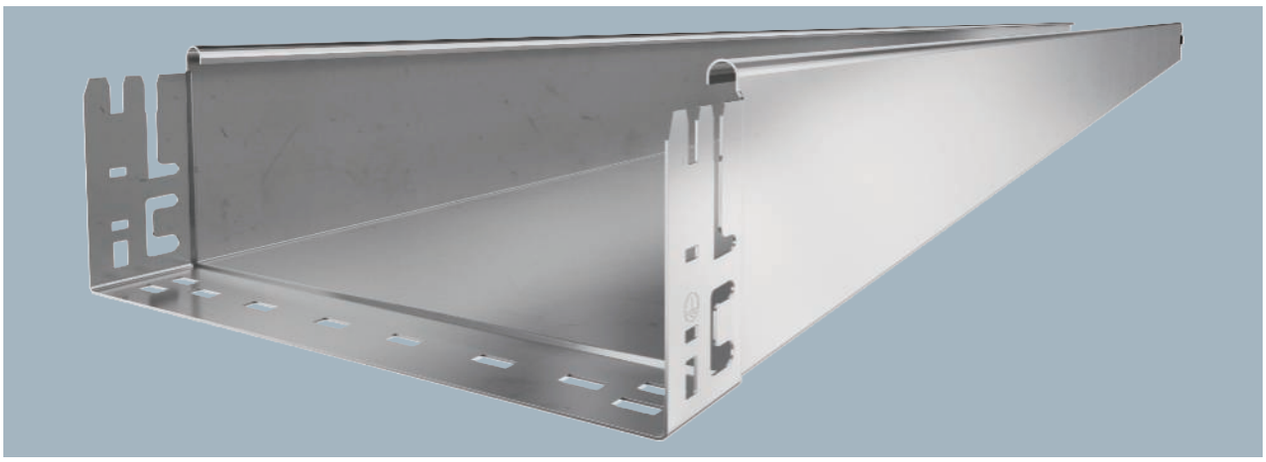
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

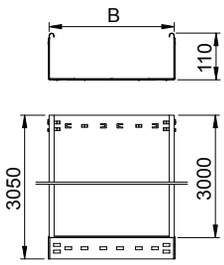
Cable tray MKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

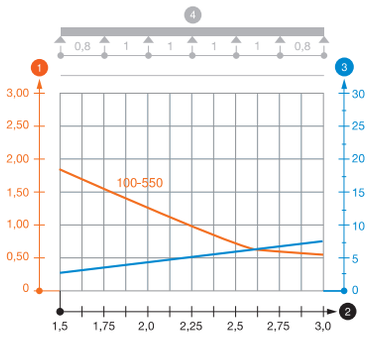
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 A2	100	1.00	3	274.167	**6059416**
MKSMU 120 A2	200	1.00	3	353.833	**6059420**
MKSMU 130 A2	300	1.00	3	433.600	**6059422**
MKSMU 140 A2	400	1.00	3	513.333	**6059424**
MKSMU 150 A2	500	1.00	3	593.033	**6059426**
MKSMU 160 A2	600	1.00	3	672.800	**6059428**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 110 A2	3050	100	108
MKSMU 120 A2	3050	200	218
MKSMU 130 A2	3050	300	328
MKSMU 140 A2	3050	400	438
MKSMU 150 A2	3050	500	548
MKSMU 160 A2	3050	600	655

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 A2	1.85	1.3	0.75	0.6
MKSMU 120 A2	1.85	1.3	0.75	0.6
MKSMU 130 A2	1.85	1.3	0.75	0.6
MKSMU 140 A2	1.85	1.3	0.75	0.6
MKSMU 150 A2	1.85	1.3	0.75	0.6
MKSMU 160 A2	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKSMU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

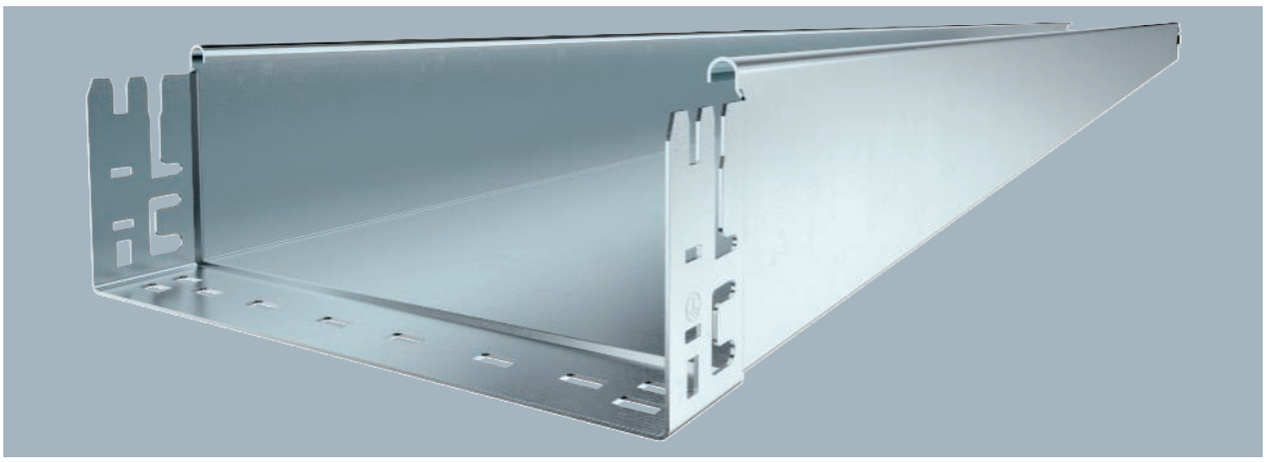
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray SKS-Magic® 110, unperforated

St FS

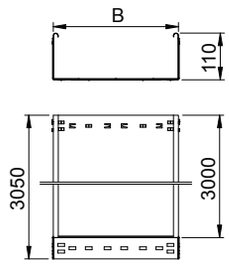


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 110 FS	100	1.50	3	404.262	**6059836**
SKSMU 120 FS	200	1.50	3	521.803	**6059840**
SKSMU 130 FS	300	1.50	3	639.442	**6059842**
SKSMU 140 FS	400	1.50	3	757.114	**6059844**
SKSMU 150 FS	500	1.50	3	874.721	**6059846**
SKSMU 160 FS	600	1.50	3	992.360	**6059848**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

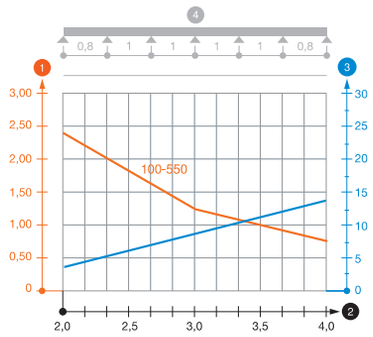
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 110 FS	3050	100	108
SKSMU 120 FS	3050	200	218
SKSMU 130 FS	3050	300	328
SKSMU 140 FS	3050	400	438
SKSMU 150 FS	3050	500	548
SKSMU 160 FS	3050	600	655

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSMU 110 FS	3	2.4	1.2	0.8
SKSMU 120 FS	3	2.4	1.2	0.8
SKSMU 130 FS	3	2.4	1.2	0.8
SKSMU 140 FS	3	2.4	1.2	0.8
SKSMU 150 FS	3	2.4	1.2	0.8
SKSMU 160 FS	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKSMU 110

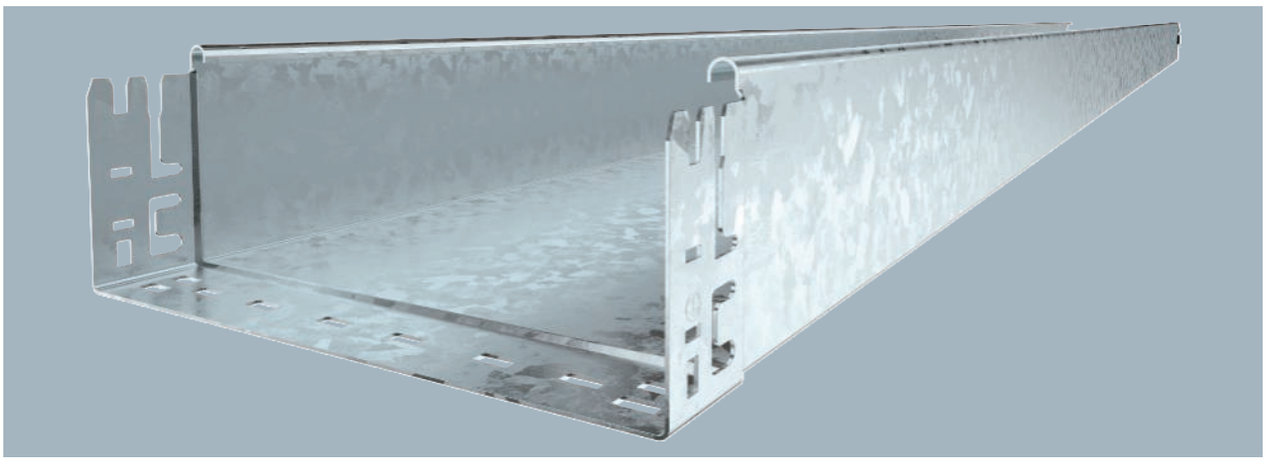
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

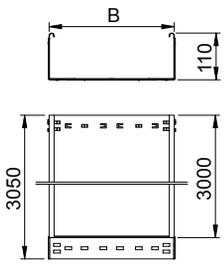
Cable tray SKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

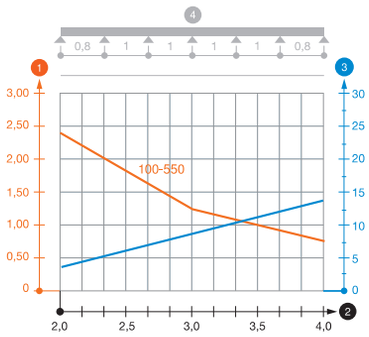
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 110 FT	100	1.50	3	431.049	**6059853**
SKSMU 120 FT	200	1.50	3	556.360	**6059857**
SKSMU 130 FT	300	1.50	3	681.836	**6059859**
SKSMU 140 FT	400	1.50	3	807.311	**6059861**
SKSMU 150 FT	500	1.50	3	932.688	**6059863**
SKSMU 160 FT	600	1.50	3	1,058.163	**6059865**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 110 FT	3050	100	108
SKSMU 120 FT	3050	200	218
SKSMU 130 FT	3050	300	328
SKSMU 140 FT	3050	400	438
SKSMU 150 FT	3050	500	548
SKSMU 160 FT	3050	600	655

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSMU 110 FT	3	2.4	1.2	0.8
SKSMU 120 FT	3	2.4	1.2	0.8
SKSMU 130 FT	3	2.4	1.2	0.8
SKSMU 140 FT	3	2.4	1.2	0.8
SKSMU 150 FT	3	2.4	1.2	0.8
SKSMU 160 FT	3	2.4	1.2	0.8

Load diagram, cable tray, type SKSMU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

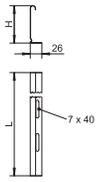
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Separating retainer 85

St FS DD

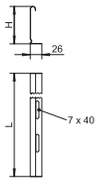


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 110

St FS DD

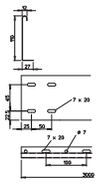


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

Barrier strip 110

VA 2B

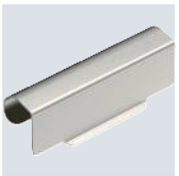


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 A2	110	0.75	3000	3	90.684	**6062255**

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

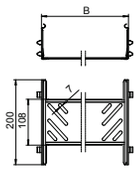


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Magic straight connector set 110

St FS DD



Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 110 FS	110	100	1	44.100	**6069090**
KTSMV 120 FS	110	200	1	50.800	**6069094**
KTSMV 130 FS	110	300	1	57.600	**6069096**
KTSMV 140 FS	110	400	1	64.300	**6069098**
KTSMV 150 FS	110	500	1	71.000	**6069100**
KTSMV 160 FS	110	600	1	77.800	**6069102**
KTSMV 110 DD	110	100	1	44.100	**6069112**
KTSMV 120 DD	110	200	1	50.800	**6069116**
KTSMV 130 DD	110	300	1	57.600	**6069118**
KTSMV 140 DD	110	400	1	64.300	**6069120**
KTSMV 150 DD	110	500	1	71.000	**6069122**
KTSMV 160 DD	110	600	1	77.800	**6069124**

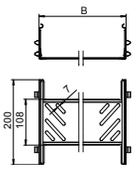
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

VA 2B

Magic straight connector set 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
KTSMV 110 A2	110	100	1	44.100	**6069134**
KTSMV 120 A2	110	200	1	50.800	**6069138**
KTSMV 130 A2	110	300	1	57.600	**6069140**
KTSMV 140 A2	110	400	1	64.300	**6069142**
KTSMV 150 A2	110	500	1	71.000	**6069144**
KTSMV 160 A2	110	600	1	77.800	**6069146**



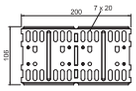
Cable tray connector with quick fastening for the screwless connection of perforated cable trays with a side height of 110 mm.

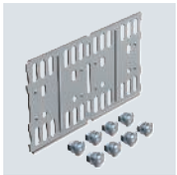
The optimised design means that the connector can be used to create radii and as a length compensation piece for large temperature deviations.

St FS FT

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	**6067131**
RLVL 110 FT	110	10	35.100	**6067913**





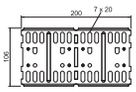
Straight and angle connector for cable trays and fittings with a side height of 110 mm.

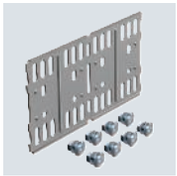
Including appropriate fastening material.

VA 2B

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 A2	110	10	33.400	**6067948**



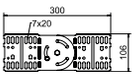


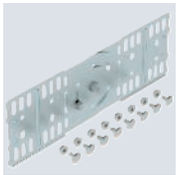
Straight and angle connector for cable trays and fittings with a side height of 110 mm.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 FS	110	10	61.700	**7082037**
RGV 110 FT	110	10	64.300	**7082436**





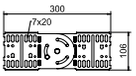
Adjustable connector for cable trays with a side height of 110 mm.

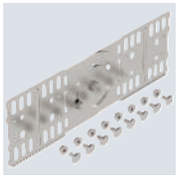
Including appropriate fastening material.

VA 2B

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 A2	110	4	61.700	**7082479**





Adjustable connector for cable trays with a side height of 110 mm.

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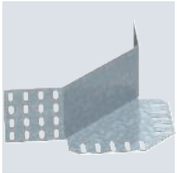
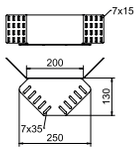
Cable trays, side height 110

Corner connector 110

St FS DD



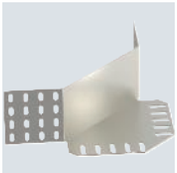


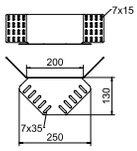
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	**6067999**
REV 110 DD	110	1	72.000	**6069339**

Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

Corner connector 110

VA 2B



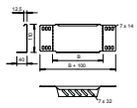


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 A2	110	5	75.000	**6068049**

Corner connector for cable trays with side height 110 mm.

Reducer/stop-end 110

St FS DD

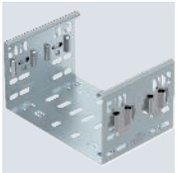


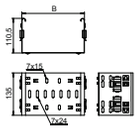
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FS	110	100	1	16.400	**7111096**
RWEB 120 FS	110	200	1	29.000	**7111207**
RWEB 130 FS	110	300	1	40.700	**7111304**
RWEB 140 FS	110	400	1	52.900	**7111428**
RWEB 150 FS	110	500	1	64.800	**7111509**
RWEB 160 FS	110	600	1	71.000	**7111740**
RWEB 110 DD	110	100	1	16.300	**7107455**
RWEB 120 DD	110	200	1	25.000	**7107471**
RWEB 130 DD	110	300	1	44.000	**7107501**
RWEB 140 DD	110	400	1	58.000	**7107536**
RWEB 150 DD	110	500	1	64.700	**7107552**
RWEB 160 DD	110	600	1	71.000	**7107562**
RWEB 155 DD	110	550	1	70.700	**7107560**

Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

Magic 110 fitting connector

St DD





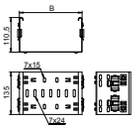
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 110 DD	110	100	1	42.900	**6065910**
FVM 120 DD	110	200	1	55.000	**6065914**
FVM 130 DD	110	300	1	67.700	**6065916**
FVM 140 DD	110	400	1	80.400	**6065918**
FVM 150 DD	110	500	1	92.600	**6065920**
FVM 160 DD	110	600	1	105.000	**6065922**

The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

VA 2B

Magic 110 fitting connector

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
FVM 110 A2	110	100	1	42.900	**6065930**
FVM 120 A2	110	200	1	55.000	**6065934**
FVM 130 A2	110	300	1	67.700	**6065936**
FVM 140 A2	110	400	1	80.400	**6065938**
FVM 150 A2	110	500	1	92.400	**6065940**
FVM 160 A2	110	600	1	105.000	**6065942**



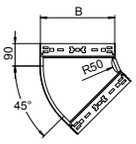
The fitting connector is compatible with cable tray types MKSM, MKSMU, SKSM and SKSMU.

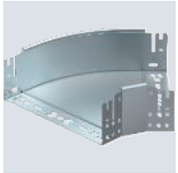
Magic straight connector for direct and screwless joining of Magic fittings with a side height of 110 mm.
The straight connector is equipped with four brackets and can also be used for the direct connection with a cut cable tray with only two brackets mounted to one side. To join a cut cable tray with a fitting, an additional Magic straight connector set is needed.

St FS FT

45° Magic bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 110 FS	110	100	1	70.500	**6041750**
RBM 45 115 FS	110	150	1	89.300	**6041751**
RBM 45 120 FS	110	200	1	109.900	**6041752**
RBM 45 130 FS	110	300	1	156.100	**6041754**
RBM 45 140 FS	110	400	1	206.500	**6041756**
RBM 45 150 FS	110	500	1	268.300	**6041758**
RBM 45 160 FS	110	600	1	337.700	**6041760**
RBM 45 110 FT	110	100	1	75.600	**6041780**
RBM 45 115 FT	110	150	1	95.800	**6041781**
RBM 45 120 FT	110	200	1	117.900	**6041782**
RBM 45 130 FT	110	300	1	167.400	**6041784**
RBM 45 140 FT	110	400	1	221.400	**6041786**
RBM 45 150 FT	110	500	1	287.700	**6041788**
RBM 45 160 FT	110	600	1	362.100	**6041790**



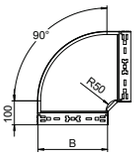


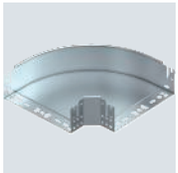
45° bend with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

90° Magic bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 110 FS	110	100	1	90.900	**6041840**
RBM 90 115 FS	110	150	1	121.000	**6041841**
RBM 90 120 FS	110	200	1	154.900	**6041842**
RBM 90 130 FS	110	300	1	233.400	**6041844**
RBM 90 140 FS	110	400	1	323.600	**6041846**
RBM 90 150 FS	110	500	1	433.100	**6041848**
RBM 90 160 FS	110	600	1	558.000	**6041850**
RBM 90 110 FT	110	100	1	97.500	**6041860**
RBM 90 120 FT	110	200	1	166.100	**6041862**
RBM 90 130 FT	110	300	1	250.300	**6041864**
RBM 90 140 FT	110	400	1	347.000	**6041866**
RBM 90 150 FT	110	500	1	464.400	**6041868**
RBM 90 160 FT	110	600	1	598.400	**6041870**





90° bend with quick connector system. For all cable tray types of 110 mm side height.

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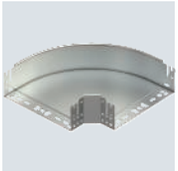
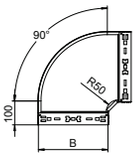
Cable trays, side height 110

90° Magic bend 110

VA 2B



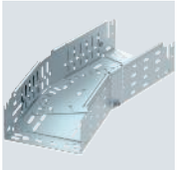


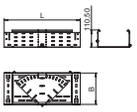
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 110 A2	110	100	1	90.900	**6041880**
RBM 90 120 A2	110	200	1	154.900	**6041882**
RBM 90 130 A2	110	300	1	233.400	**6041884**
RBM 90 140 A2	110	400	1	323.600	**6041886**
RBM 90 150 A2	110	500	1	433.100	**6041888**
RBM 90 160 A2	110	600	1	558.000	**6041890**

90° bend with quick connector system. For all cable tray types of 110 mm side height.

Magic 110 bend, variable

St FS FT



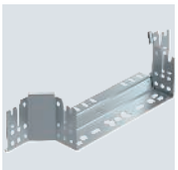


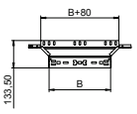
Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 110 FS	110	100	340	1	103.900	**6040680**
RBMV 115 FS	110	150	420	1	152.200	**6040682**
RBMV 120 FS	110	200	490	1	209.200	**6040684**
RBMV 130 FS	110	300	640	1	357.800	**6040686**
RBMV 140 FS	110	400	820	1	548.400	**6040688**
RBMV 150 FS	110	500	960	1	1,134.000	**6040690**
RBMV 160 FS	110	600	1120	1	1,522.400	**6040692**
RBMV 110 FT	110	100	340	1	117.600	**6040700**
RBMV 115 FT	110	150	420	1	170.500	**6040702**
RBMV 120 FT	110	200	490	1	228.100	**6040704**
RBMV 130 FT	110	300	640	1	474.400	**6040706**
RBMV 140 FT	110	400	820	1	733.500	**6040708**
RBMV 150 FT	110	500	960	1	1,202.400	**6040710**
RBMV 160 FT	110	600	1120	1	1,614.200	**6040712**

Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 110 mm side height.

Magic 110 add-on tee

St FS FT





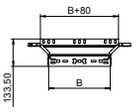
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 110 FS	110	100	1	53.700	**6041920**
RAAM 115 FS	110	150	1	60.000	**6041921**
RAAM 120 FS	110	200	1	66.300	**6041922**
RAAM 130 FS	110	300	1	79.200	**6041924**
RAAM 140 FS	110	400	1	92.200	**6041926**
RAAM 150 FS	110	500	1	105.100	**6041928**
RAAM 160 FS	110	600	1	118.400	**6041930**
RAAM 110 FT	110	100	1	57.600	**6041940**
RAAM 115 FT	110	150	1	64.300	**6041941**
RAAM 120 FT	110	200	1	71.100	**6041942**
RAAM 130 FT	110	300	1	84.900	**6041944**
RAAM 140 FT	110	400	1	98.900	**6041946**
RAAM 150 FT	110	500	1	112.700	**6041948**
RAAM 160 FT	110	600	1	127.000	**6041950**

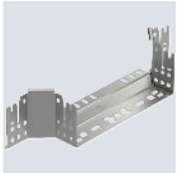
Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

VA 2B

Magic 110 add-on tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 110 A2	110	100	1	53.700	**6041960**
RAAM 120 A2	110	200	1	66.300	**6041962**
RAAM 130 A2	110	300	1	79.200	**6041964**
RAAM 140 A2	110	400	1	92.200	**6041966**
RAAM 150 A2	110	500	1	105.100	**6041968**
RAAM 160 A2	110	600	1	118.400	**6041970**



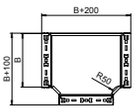


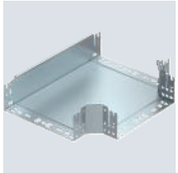
Add-on tee with quick connector system. For all cable tray types of 110 mm side height.

St FS FT

Magic 110 tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 110 FS	110	100	1	113.600	**6042010**
RTM 115 FS	110	150	1	147.200	**6042011**
RTM 120 FS	110	200	1	185.500	**6042012**
RTM 130 FS	110	300	1	275.600	**6042014**
RTM 140 FS	110	400	1	380.300	**6042018**
RTM 150 FS	110	500	1	510.100	**6042020**
RTM 160 FS	110	600	1	659.500	**6042022**
RTM 110 FT	110	100	1	121.800	**6042030**
RTM 115 FT	110	150	1	157.900	**6042032**
RTM 120 FT	110	200	1	198.900	**6042034**
RTM 130 FT	110	300	1	295.500	**6042036**
RTM 140 FT	110	400	1	407.800	**6042038**
RTM 150 FT	110	500	1	547.000	**6042040**
RTM 160 FT	110	600	1	707.200	**6042042**



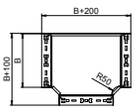


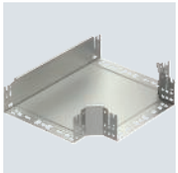
Tee with quick connector system. For all cable tray types of 110 mm side height.

VA 2B

Magic 110 tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 110 A2	110	100	1	113.600	**6042050**
RTM 120 A2	110	200	1	185.500	**6042052**
RTM 130 A2	110	300	1	275.600	**6042054**
RTM 140 A2	110	400	1	380.300	**6042056**
RTM 150 A2	110	500	1	510.100	**6042060**
RTM 160 A2	110	600	1	659.500	**6042062**



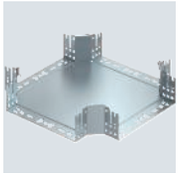


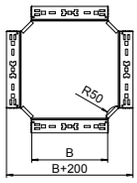
Tee with quick connector system. For all cable tray types of 110 mm side height.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Magic 110 cross-over

St FS FT



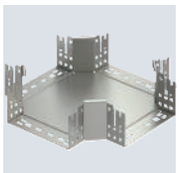


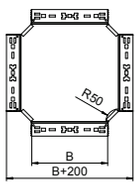
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 110 FS	110	100	1	124.700	**7027161**
RKM 115 FS	110	150	1	156.100	**7027163**
RKM 120 FS	110	200	1	192.300	**7027165**
RKM 130 FS	110	300	1	277.600	**7027167**
RKM 140 FS	110	400	1	374.800	**7027169**
RKM 150 FS	110	500	1	499.800	**7027171**
RKM 160 FS	110	600	1	644.300	**7027173**
RKM 110 FT	110	100	1	133.700	**7027181**
RKM 115 FT	110	150	1	167.400	**7027183**
RKM 120 FT	110	200	1	206.200	**7027185**
RKM 130 FT	110	300	1	297.700	**7027187**
RKM 140 FT	110	400	1	401.900	**7027189**
RKM 150 FT	110	500	1	536.000	**7027191**
RKM 160 FT	110	600	1	690.900	**7027193**

Cross-over with quick connector system. For all cable tray types of 110 mm side height.

Magic 110 cross-over

VA 2B



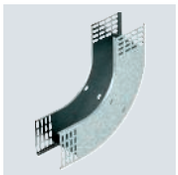


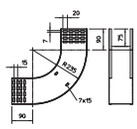
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RKM 110 A2	110	100	1	124.700	**7027201**
RKM 120 A2	110	200	1	192.300	**7027205**
RKM 130 A2	110	300	1	277.600	**7027207**
RKM 140 A2	110	400	1	374.800	**7027209**
RKM 150 A2	110	500	1	499.800	**7027211**
RKM 160 A2	110	600	1	644.300	**7027213**

Cross-over with quick connector system. For all cable tray types of 110 mm side height.

90° vertical bend, rising, 110

St FS FT





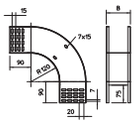
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 110 S FS	110	100	1	120.100	**7007310**
RBV 120 S FS	110	200	1	151.300	**7007314**
RBV 130 S FS	110	300	1	182.400	**7007318**
RBV 140 S FS	110	400	1	213.600	**7007322**
RBV 150 S FS	110	500	1	244.800	**7007326**
RBV 160 S FS	110	600	1	274.000	**7007333**
RBV 110 S FT	110	100	1	120.000	**7007398**
RBV 120 S FT	110	200	1	163.000	**7007400**
RBV 130 S FT	110	300	1	182.400	**7007319**
RBV 140 S FT	110	400	1	231.000	**7007404**
RBV 150 S FT	110	500	1	244.800	**7007327**
RBV 160 S FT	110	600	1	299.000	**7007334**

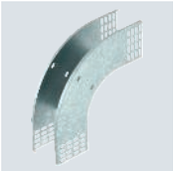
90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, falling 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 120 F FS	110	200	1	124.000	**7007354**
RBV 130 F FS	110	300	1	141.600	**7007358**
RBV 140 F FS	110	400	1	159.200	**7007362**
RBV 150 F FS	110	500	1	176.900	**7007366**
RBV 160 F FS	110	600	1	193.000	**7007373**
RBV 110 F FT	110	100	1	120.000	**7007468**
RBV 120 F FT	110	200	1	134.000	**7007470**
RBV 130 F FT	110	300	1	141.600	**7007359**
RBV 140 F FT	110	400	1	172.000	**7007474**
RBV 150 F FT	110	500	1	176.900	**7007367**
RBV 160 F FT	110	600	1	210.000	**7007374**





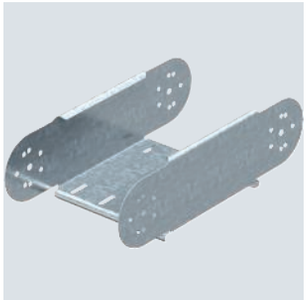
90° vertical bend, falling, for all cable tray types of 110 mm side height.

The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 110 FS	110	1	96.500	**7005628**
RGBEV 120 FS	110	1	116.800	**7005644**
RGBEV 130 FS	110	1	137.200	**7005660**
RGBEV 140 FS	110	1	157.500	**7005687**
RGBEV 150 FS	110	1	177.900	**7005709**
RGBEV 160 FS	110	1	175.000	**7005723**
RGBEV 110 FT	110	1	103.400	**7077106**
RGBEV 120 FT	110	1	125.200	**7077203**
RGBEV 130 FT	110	1	147.100	**7077300**
RGBEV 140 FT	110	1	168.900	**7077408**
RGBEV 150 FT	110	1	179.800	**7077505**
RGBEV 160 FT	110	1	186.000	**7077972**

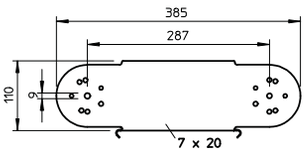


Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Width mm	Metal thickness mm
RGBEV 110 FS	100	1.00
RGBEV 120 FS	200	1.00
RGBEV 130 FS	300	1.00
RGBEV 140 FS	400	1.00
RGBEV 150 FS	500	1.00
RGBEV 160 FS	600	1.00

Dimensions

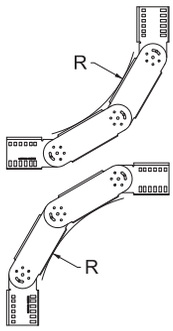


Radius table

Quantity of elements	Radius
1	Approx. 300 mm
2	Approx. 450 mm
3	Approx. 600 mm
4	Approx. 750 mm
5	Approx. 900 mm

Please order two RGV 110 adjustable connectors separately.

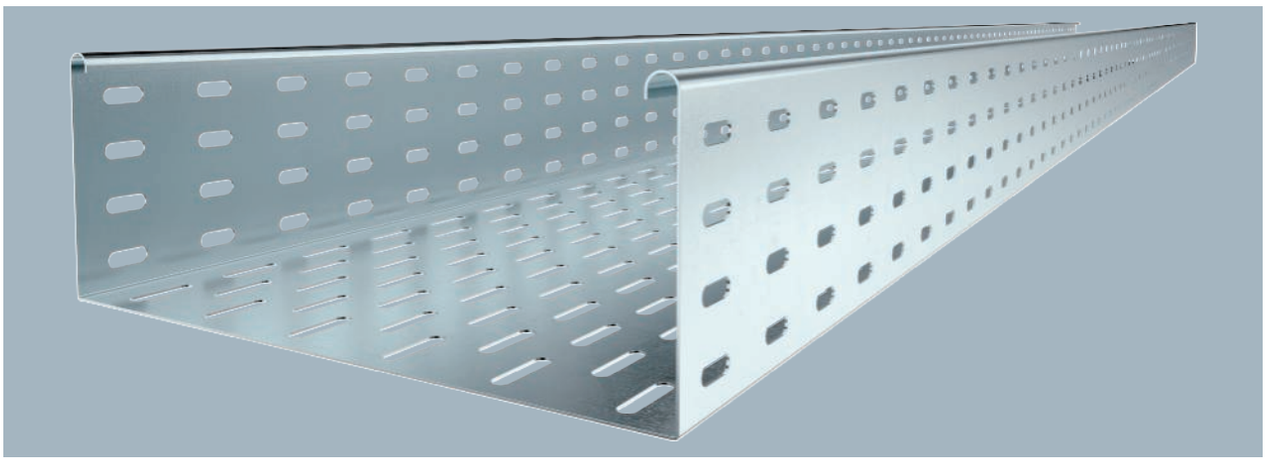
Installation



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable tray MKS 110

St FS



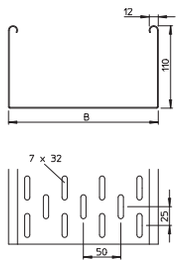
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKS 110 FS	100	1.00		3	267.700	**6060102**
MKS 120 FS	200	1.00		3	308.500	**6060196**
MKS 130 FS	300	1.00		3	373.900	**6060307**
MKS 140 FS	400	1.00		3	463.000	**6060404**
MKS 150 FS	500	1.00		3	528.333	**6060412**
MKS 155 FS	550	1.00		3	536.700	**6060528**

Including connector, type RLVL 110.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

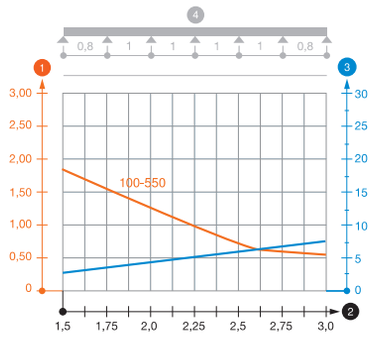
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 110 FS	3000	100	108
MKS 120 FS	3000	200	218
MKS 130 FS	3000	300	328
MKS 140 FS	3000	400	438
MKS 150 FS	3000	500	548
MKS 155 FS	3000	550	603

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 FS	1.85	1.3	0.75	0.6
MKS 120 FS	1.85	1.3	0.75	0.6
MKS 130 FS	1.85	1.3	0.75	0.6
MKS 140 FS	1.85	1.3	0.75	0.6
MKS 150 FS	1.85	1.3	0.75	0.6
MKS 155 FS	1.85	1.3	0.75	0.6

Load



Load diagram, cable tray, type MKS 110

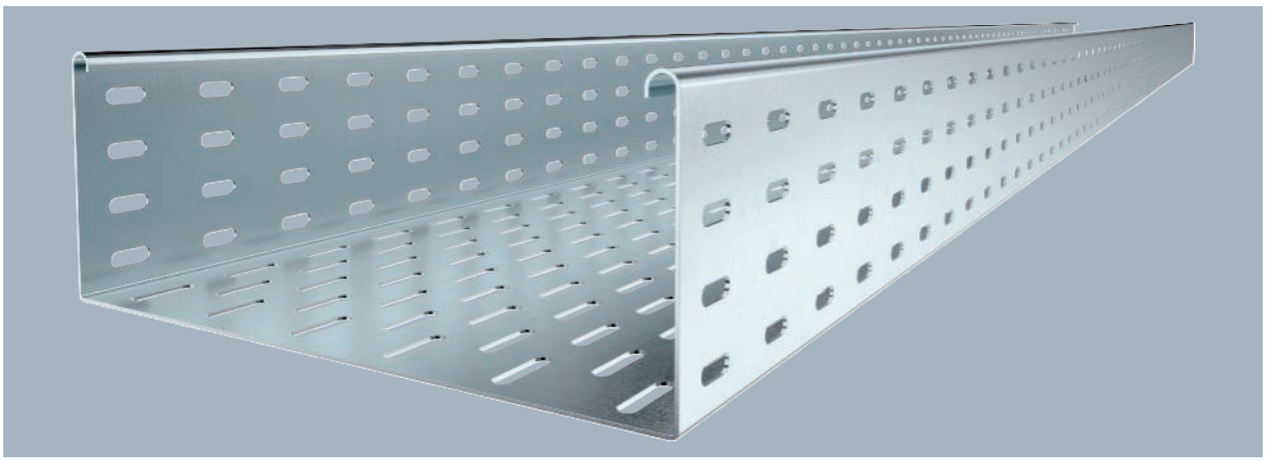
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray SKS 110

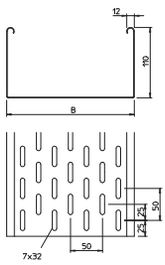


FS version includes connector, type RLVL 110.

SKS 110 = heavy-duty cable tray system with 110 mm side height.

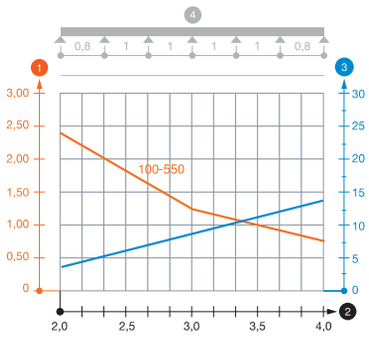
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FS	100	1.50	3	386.000	**6061109**
SKS 120 FS	200	1.50	3	486.340	**6061206**
SKS 130 FS	300	1.50	3	584.000	**6061303**
SKS 140 FS	400	1.50	3	681.670	**6061400**
SKS 150 FS	500	1.50	3	779.670	**6061508**
SKS 155 FS	550	1.50	3	830.000	**6061559**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 110 FS	3000	100	108
SKS 120 FS	3000	200	218
SKS 130 FS	3000	300	328
SKS 140 FS	3000	400	438
SKS 150 FS	3000	500	548
SKS 155 FS	3000	550	603

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FS	3	2.4	1.2	0.8
SKS 120 FS	3	2.4	1.2	0.8
SKS 130 FS	3	2.4	1.2	0.8
SKS 140 FS	3	2.4	1.2	0.8
SKS 150 FS	3	2.4	1.2	0.8
SKS 155 FS	3	2.4	1.2	0.8

Load diagram, cable tray, type SKS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

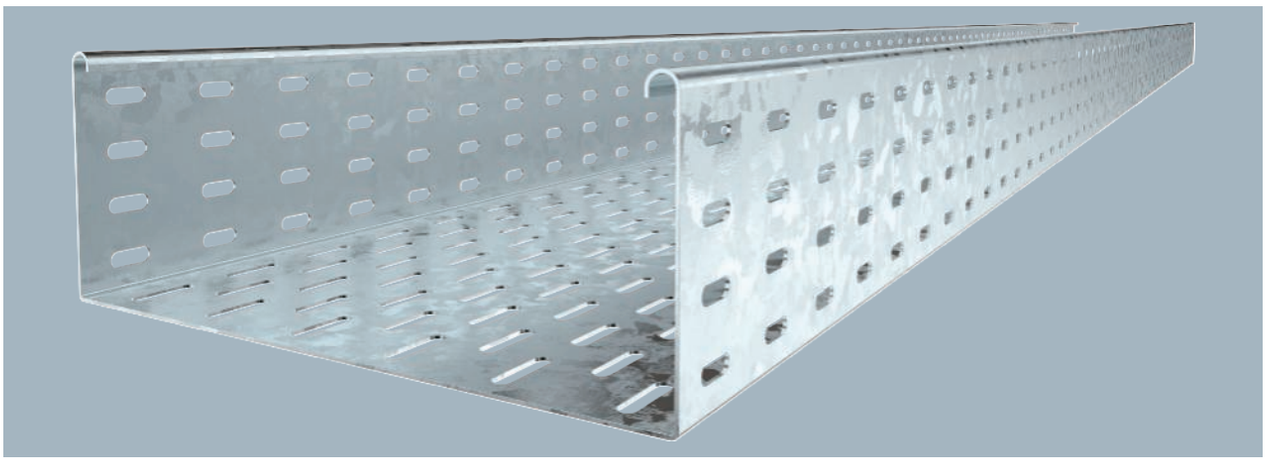
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray SKS 110

St FT

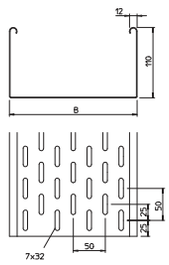


Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FT	100	1.50	3	388.680	**6061605**
SKS 120 FT	200	1.50	3	494.000	**6061621**
SKS 130 FT	300	1.50	3	598.340	**6061656**
SKS 140 FT	400	1.50	3	697.340	**6061672**
SKS 150 FT	500	1.50	3	807.000	**6061702**
SKS 155 FT	550	1.50	3	856.000	**6061729**

SKS 110 = heavy-duty cable tray system with 110 mm side height.

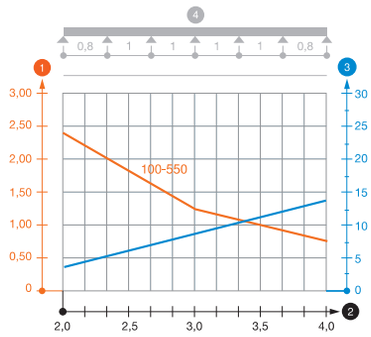
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 110 FT	3000	100	108
SKS 120 FT	3000	200	218
SKS 130 FT	3000	300	328
SKS 140 FT	3000	400	438
SKS 150 FT	3000	500	548
SKS 155 FT	3000	550	603

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FT	3	2.4	1.2	0.8
SKS 120 FT	3	2.4	1.2	0.8
SKS 130 FT	3	2.4	1.2	0.8
SKS 140 FT	3	2.4	1.2	0.8
SKS 150 FT	3	2.4	1.2	0.8
SKS 155 FT	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKS 110

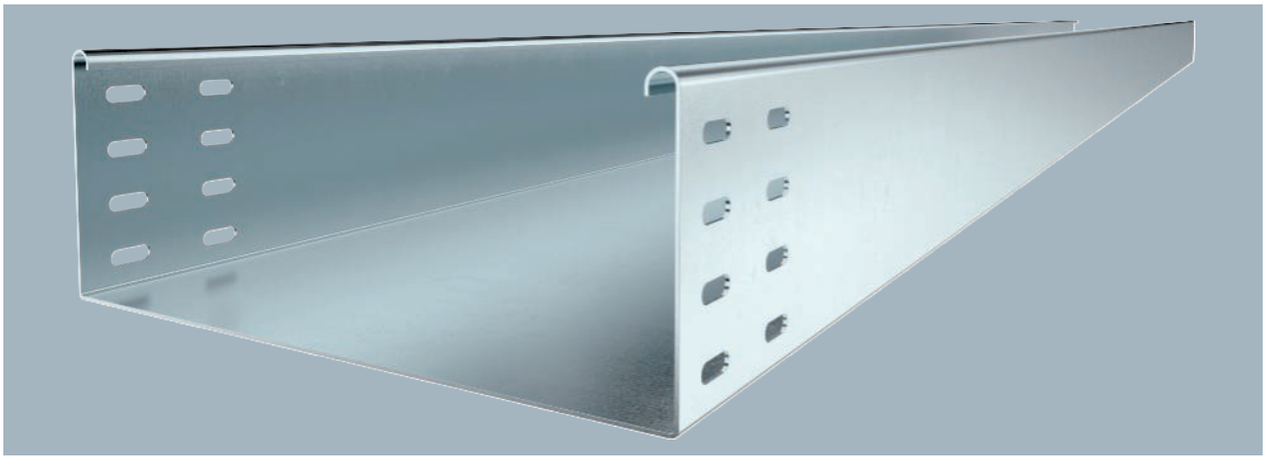
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray SKSU 110

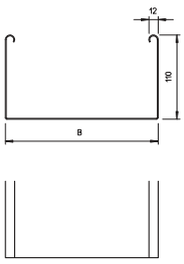


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKSU 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

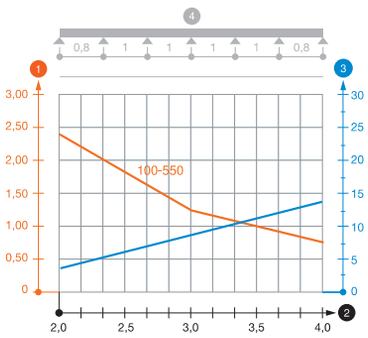
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 110 FS	100	1.50	3	404.000	**6063403**
SKSU 120 FS	200	1.50	3	520.000	**6063438**
SKSU 130 FS	300	1.50	3	637.000	**6063454**
SKSU 140 FS	400	1.50	3	754.700	**6063470**
SKSU 150 FS	500	1.50	3	872.000	**6063497**
SKSU 155 FS	550	1.50	3	935.340	**6063500**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 110 FS	3000	100	108
SKSU 120 FS	3000	200	218
SKSU 130 FS	3000	300	328
SKSU 140 FS	3000	400	438
SKSU 150 FS	3000	500	548
SKSU 155 FS	3000	550	603

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FS	3	2.4	1.2	0.8
SKSU 120 FS	3	2.4	1.2	0.8
SKSU 130 FS	3	2.4	1.2	0.8
SKSU 140 FS	3	2.4	1.2	0.8
SKSU 150 FS	3	2.4	1.2	0.8
SKSU 155 FS	3	2.4	1.2	0.8

Load diagram, cable tray, type SKSU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

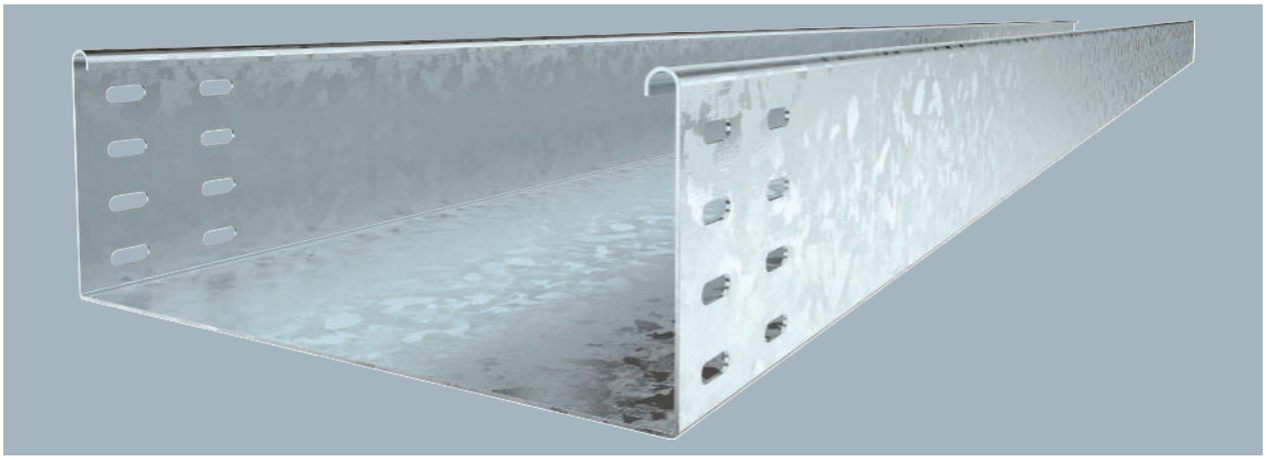
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Cable tray SKSU 110

St FT



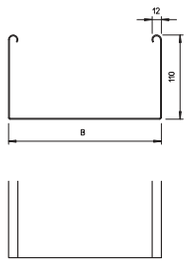
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 110 FT	100	1.50	3	406.700	**6064795**
SKSU 120 FT	200	1.50	3	551.340	**6064833**
SKSU 130 FT	300	1.50	3	694.000	**6064884**
SKSU 140 FT	400	1.50	3	822.670	**6064922**
SKSU 150 FT	500	1.50	3	924.670	**6064965**
SKSU 155 FT	550	1.50	3	991.670	**6064973**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

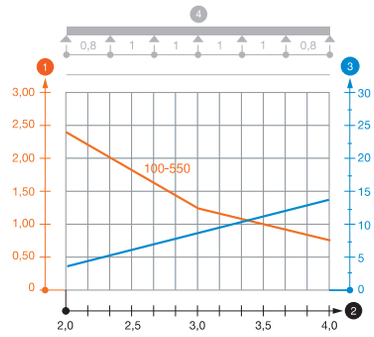
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 110 FT	3000	100	108
SKSU 120 FT	3000	200	218
SKSU 130 FT	3000	300	328
SKSU 140 FT	3000	400	438
SKSU 150 FT	3000	500	548
SKSU 155 FT	3000	550	605

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FT	3	2.4	1.2	0.8
SKSU 120 FT	3	2.4	1.2	0.8
SKSU 130 FT	3	2.4	1.2	0.8
SKSU 140 FT	3	2.4	1.2	0.8
SKSU 150 FT	3	2.4	1.2	0.8
SKSU 155 FT	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKSU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

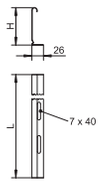
— Strut bend curve according to support width

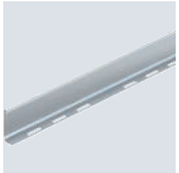
St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.



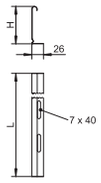


St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

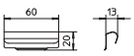


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

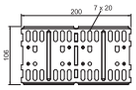


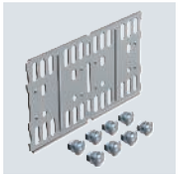
St FS FT

Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	**6067131**
RLVL 110 FT	110	10	35.100	**6067913**

Straight and angle connector for cable trays and fittings with a side height of 110 mm.
Including appropriate fastening material.



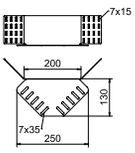


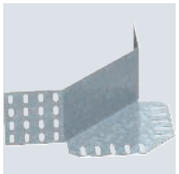
St FS DD

Corner connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	**6067999**
REV 110 DD	110	1	72.000	**6069339**

Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.



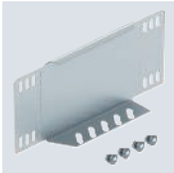


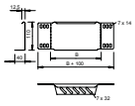
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable trays, side height 110

Reducer/stop-end 110

St FS DD





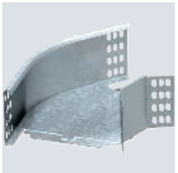
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FS	110	100	1	16.400	**7111096**
RWEB 115 FS	110	150	1	22.900	**7111201**
RWEB 120 FS	110	200	1	29.000	**7111207**
RWEB 130 FS	110	300	1	40.700	**7111304**
RWEB 140 FS	110	400	1	52.900	**7111428**
RWEB 150 FS	110	500	1	64.800	**7111509**
RWEB 160 FS	110	600	1	71.000	**7111740**
RWEB 155 FS	110	550	1	70.700	**7111541**
RWEB 110 DD	110	100	1	16.300	**7107455**
RWEB 120 DD	110	200	1	25.000	**7107471**
RWEB 130 DD	110	300	1	44.000	**7107501**
RWEB 140 DD	110	400	1	58.000	**7107536**
RWEB 150 DD	110	500	1	64.700	**7107552**
RWEB 160 DD	110	600	1	71.000	**7107562**
RWEB 155 DD	110	550	1	70.700	**7107560**

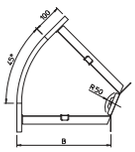
Reducer/stop-end for cable trays with side height 110 mm.

From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

45° bend 110

St FS FT





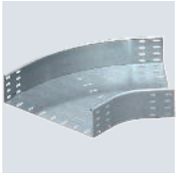
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 110 FS	110	100	1	70.000	**7000634**
RB 45 120 FS	110	200	1	100.000	**7000650**
RB 45 130 FS	110	300	1	135.000	**7000677**
RB 45 110 FT	110	100	1	75.000	**7068115**
RB 45 120 FT	110	200	1	110.000	**7068212**
RB 45 130 FT	110	300	1	145.000	**7068328**

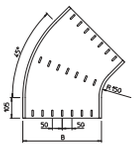
45° bend, horizontal, for all cable tray types of 110 mm side height.

The fitting is shipped in an unmounted state. The WKV 110 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

45° bend 110

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 140 FS	110	400	1	340.000	**7000685**
RB 45 150 FS	110	500	1	400.000	**7000707**
RB 45 155 FS	110	550	1	470.000	**7000715**
RB 45 140 FT	110	400	1	365.000	**7068409**
RB 45 150 FT	110	500	1	425.000	**7068506**
RB 45 155 FT	110	550	1	500.000	**7068557**

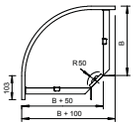
45° bend, horizontal, for all cable tray types of 110 mm side height.

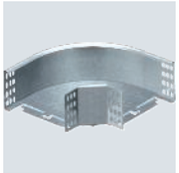
Fastening materials should be ordered separately.

St FS FT

90° bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 110 FS	110	100	1	80.000	**7001894**
RB 90 120 FS	110	200	1	140.000	**7001916**
RB 90 130 FS	110	300	1	210.000	**7001932**
RB 90 110 FT	110	100	1	85.000	**7127103**
RB 90 120 FT	110	200	1	150.000	**7127227**
RB 90 130 FT	110	300	1	230.000	**7127320**



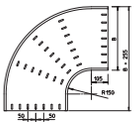


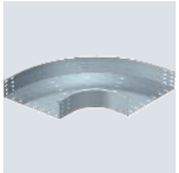
90° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

90° bend 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 140 FS	110	400	1	540.000	**7001940**
RB 90 150 FS	110	500	1	700.000	**7001967**
RB 90 155 FS	110	550	1	780.000	**7001975**
RB 90 140 FT	110	400	1	575.000	**7127413**
RB 90 150 FT	110	500	1	750.000	**7127499**
RB 90 155 FT	110	550	1	840.000	**7127545**



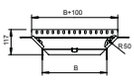


90° bend, horizontal, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

St FS FT

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 110 FS	110	100	1	45.000	**7002637**
RAA 120 FS	110	200	1	55.000	**7002653**
RAA 130 FS	110	300	1	70.000	**7002688**
RAA 110 FT	110	100	1	50.000	**7123116**
RAA 120 FT	110	200	1	60.000	**7123213**
RAA 130 FT	110	300	1	75.000	**7123310**

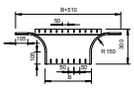


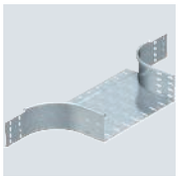
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 140 FS	110	400	1	250.000	**7002696**
RAA 150 FS	110	500	1	285.000	**7002726**
RAA 155 FS	110	550	1	300.000	**7002734**
RAA 140 FT	110	400	1	270.000	**7123396**
RAA 150 FT	110	500	1	310.000	**7123507**
RAA 155 FT	110	550	1	325.000	**7123558**



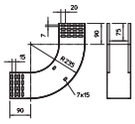


Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

90° vertical bend, rising, 110

St FS FT

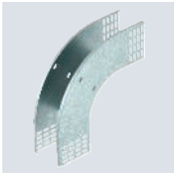


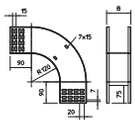
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 110 S FS	110	100	1	120.100	**7007310**
RBV 120 S FS	110	200	1	151.300	**7007314**
RBV 130 S FS	110	300	1	182.400	**7007318**
RBV 140 S FS	110	400	1	213.600	**7007322**
RBV 150 S FS	110	500	1	244.800	**7007326**
RBV 160 S FS	110	600	1	274.000	**7007333**
RBV 110 S FT	110	100	1	120.000	**7007398**
RBV 120 S FT	110	200	1	163.000	**7007400**
RBV 130 S FT	110	300	1	182.400	**7007319**
RBV 140 S FT	110	400	1	231.000	**7007404**
RBV 150 S FT	110	500	1	244.800	**7007327**
RBV 160 S FT	110	600	1	299.000	**7007334**

90° rising vertical bend, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

90° vertical bend, falling 110

St FS FT





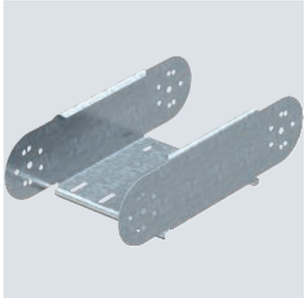
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 120 F FS	110	200	1	124.000	**7007354**
RBV 130 F FS	110	300	1	141.600	**7007358**
RBV 140 F FS	110	400	1	159.200	**7007362**
RBV 150 F FS	110	500	1	176.900	**7007366**
RBV 160 F FS	110	600	1	193.000	**7007373**
RBV 110 F FT	110	100	1	120.000	**7007468**
RBV 120 F FT	110	200	1	134.000	**7007470**
RBV 130 F FT	110	300	1	141.600	**7007359**
RBV 140 F FT	110	400	1	172.000	**7007474**
RBV 150 F FT	110	500	1	176.900	**7007367**
RBV 160 F FT	110	600	1	210.000	**7007374**

90° vertical bend, falling, for all cable tray types of 110 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

Adjustable bend element, vertical 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 110 FS	110	1	96.500	**7005628**
RGBEV 115 FS	110	1	106.700	**7005636**
RGBEV 120 FS	110	1	116.800	**7005644**
RGBEV 130 FS	110	1	137.200	**7005660**
RGBEV 140 FS	110	1	157.500	**7005687**
RGBEV 150 FS	110	1	177.900	**7005709**
RGBEV 155 FS	110	1	188.300	**7005717**
RGBEV 160 FS	110	1	175.000	**7005723**
RGBEV 110 FT	110	1	103.400	**7077106**
RGBEV 120 FT	110	1	125.200	**7077203**
RGBEV 130 FT	110	1	147.100	**7077300**
RGBEV 140 FT	110	1	168.900	**7077408**
RGBEV 150 FT	110	1	179.800	**7077505**
RGBEV 160 FT	110	1	186.000	**7077972**

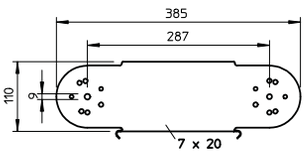


Adjustable bend element, vertical, for all cable tray types with a side height of 110 mm.

RGV 110 adjustable connectors should be ordered separately and in the appropriate quantity.

Type	Width mm	Metal thickness mm
RGBEV 110 FS	100	1.00
RGBEV 115 FS	150	1.00
RGBEV 120 FS	200	1.00
RGBEV 130 FS	300	1.00
RGBEV 140 FS	400	1.00
RGBEV 150 FS	500	1.00
RGBEV 155 FS	550	1.00
RGBEV 160 FS	600	1.00

Dimensions

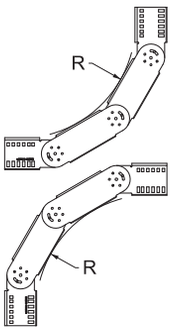


Radius table

Quantity of elements	Radius
1	Approx. 300 mm
2	Approx. 450 mm
3	Approx. 600 mm
4	Approx. 750 mm
5	Approx. 900 mm

Please order two RGV 110 adjustable connectors separately.

Installation

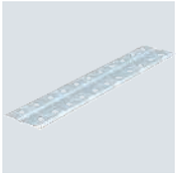


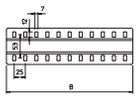
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Joint plates

Joint plate

St FS DD



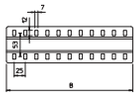


Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	**7070205**
SSLB 150 FS	150	20	14.000	**7070209**
SSLB 200 FS	200	20	18.500	**7070213**
SSLB 300 FS	300	20	29.200	**7070217**
SSLB 400 FS	400	20	38.200	**7070221**
SSLB 500 FS	500	20	49.000	**7070225**
SSLB 550 FS	550	20	53.500	**7070229**
SSLB 600 FS	600	20	58.000	**7070233**
SSLB 100 DD	100	20	7.700	**7070306**
SSLB 150 DD	150	20	14.000	**7070310**
SSLB 200 DD	200	20	18.500	**7070314**
SSLB 300 DD	300	20	29.200	**7070318**
SSLB 400 DD	400	20	38.200	**7070322**
SSLB 500 DD	500	20	49.000	**7070326**
SSLB 600 DD	600	20	58.000	**7070334**
SSLB 550 DD	550	20	53.500	**7070330**

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

Joint plate

VA VA 2B



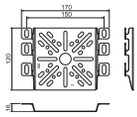
Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	**7070353**
SSLB 200 A2	200	20	18.500	**7070361**
SSLB 300 A2	300	20	29.200	**7070365**
SSLB 400 A2	400	20	38.200	**7070369**
SSLB 500 A2	500	20	49.000	**7070373**
SSLB 600 A2	600	20	58.000	**7070381**
SSLB 100 A4	100	20	7.700	**7070390**
SSLB 200 A4	200	20	18.500	**7070392**
SSLB 300 A4	300	20	29.200	**7070394**
SSLB 400 A4	400	20	38.200	**7070396**
SSLB 500 A4	500	20	49.000	**7070398**
SSLB 600 A4	600	20	58.000	**7070400**

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

Mounting plates

Mounting plate

St VA FS DD 2B



Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI FS	120	170	1	13.300	**7084773**
MP UNI DD	120	170	1	11.000	**7085114**
MP UNI A2	120	170	1	11.000	**7085133**

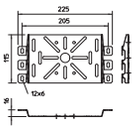
Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.

St FS

Mounting plate

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP 225 UNI FS	115	225	1	20.000	**7084870**

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate for universal use on side rails of cable trays and mesh cable trays.

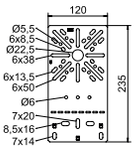


St FS DD

Mounting plate, flat

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP FL FS	235	120	1	19.200	**7084757**
MP FL DD	235	120	1	19.200	**7085108**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Flat mounting plate, for fastening on the side rail of the cable tray.

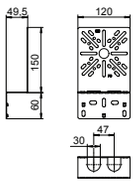


St FS DD

Mounting plate, angled

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI KL. FS	210	120	1	20.200	**7084765**
MP WI KL. DD	210	120	1	20.200	**7085111**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Curved mounting plate, for fixing on the side rail of the cable tray.

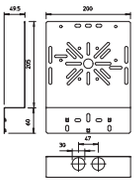


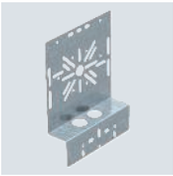
St FS DD

Mounting plate, angled, wide

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI GR. FS	240	200	1	39.400	**7084781**
MP WI GR. DD	240	200	1	39.400	**7085112**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Angled mounting plate, for fastening on the side rail of the cable tray.



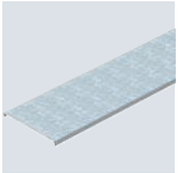


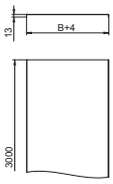
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

System accessories

Unperforated cover

St FS DD



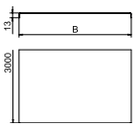


Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	**6052056**
DRLU 100 FS	100	1.00	3000	3	99.000	**6052103**
DRLU 150 FS	150	1.00	3000	3	138.267	**6052153**
DRLU 200 FS	200	1.00	3000	3	177.500	**6052210**
DRLU 300 FS	300	1.00	3000	3	256.000	**6052307**
DRLU 400 FS	400	1.00	3000	3	334.500	**6052405**
DRLU 500 FS	500	1.50	3000	3	619.234	**6052512**
DRLU 550 FS	550	1.50	3000	3	678.100	**6052571**
DRLU 600 FS	600	1.50	3000	3	737.000	**6052609**
DRLU 050 DD	50	1.00	3000	3	59.770	**6052640**
DRLU 100 DD	100	1.00	3000	3	99.000	**6052643**
DRLU 150 DD	150	1.00	3000	3	138.267	**6052647**
DRLU 200 DD	200	1.00	3000	3	177.500	**6052650**
DRLU 300 DD	300	1.00	3000	3	256.000	**6052656**
DRLU 400 DD	400	1.00	3000	3	334.500	**6052662**
DRLU 500 DD	500	1.50	3000	3	619.234	**6052668**
DRLU 550 DD	550	1.50	3000	3	678.100	**6052671**
DRLU 600 DD	600	1.50	3000	3	737.000	**6052674**

Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

Unperforated cover

VA VA 2B



Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	**6052821**
DRLU 100 A2	100	1.00	3000	3	99.000	**6052824**
DRLU 150 A2	150	1.00	3000	3	138.234	**6052828**
DRLU 200 A2	200	1.00	3000	3	177.500	**6052831**
DRLU 300 A2	300	1.00	3000	3	256.000	**6052834**
DRLU 400 A2	400	1.00	3000	3	334.500	**6052837**
DRLU 500 A2	500	1.50	3000	3	619.167	**6052841**
DRLU 600 A2	600	1.50	3000	3	736.900	**6052844**
DRLU 100 A4	100	1.00	3000	3	99.000	**6052991**
DRLU 150 A4	150	1.00	3000	3	138.234	**6052992**
DRLU 200 A4	200	1.00	3000	3	177.500	**6052993**
DRLU 300 A4	300	1.00	3000	3	256.000	**6052994**
DRLU 400 A4	400	1.00	3000	3	334.500	**6052995**
DRLU 500 A4	500	1.25	3000	3	619.167	**6052996**
DRLU 600 A4	600	1.25	3000	3	736.900	**6052998**

Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

Cover clamp

VA 2B

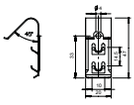
Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	**6052810**

Cover clamp for secure fastening of covers on cable trays and cable ladders.
At least 6 cover clamps should be mounted for each 3 metres of cover.

VA 2B

Cover clamp, universal

Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	6065600

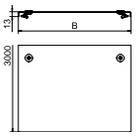


Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

St FS FT DD

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	6052029
DRL 100 FS	100	1.00	3000	3	103.000	6052096
DRL 150 FS	150	1.00	3000	3	141.667	6052150
DRL 200 FS	200	1.00	3000	3	181.340	6052207
DRL 300 FS	300	1.00	3000	3	259.334	6052304
DRL 400 FS	400	1.00	3000	3	338.670	6052401
DRL 500 FS	500	1.25	3000	3	623.000	6052509
DRL 550 FS	550	1.25	3000	3	681.670	6052568
DRL 600 FS	600	1.25	3000	3	741.000	6052606
DRL 100 FT	100	1.00	3000	3	106.670	6051340
DRL 150 FT	150	1.00	3000	3	159.340	6051359
DRL 200 FT	200	1.00	3000	3	202.670	6051367
DRL 300 FT	300	1.00	3000	3	289.000	6051383
DRL 400 FT	400	1.50	3000	3	542.000	6051413
DRL 500 FT	500	1.50	3000	3	667.670	6051448
DRL 600 FT	600	1.50	3000	3	793.000	6051472
DRL 100 DD	100	1.00	3000	3	106.340	6052703
DRL 150 DD	150	1.00	3000	3	145.670	6052706
DRL 200 DD	200	1.00	3000	3	185.000	6052709
DRL 300 DD	300	1.00	3000	3	263.340	6052712
DRL 400 DD	400	1.00	3000	3	342.070	6052715
DRL 500 DD	500	1.25	3000	3	626.670	6052718
DRL 550 DD	550	1.25	3000	3	685.340	6052721
DRL 600 DD	600	1.25	3000	3	744.570	6052724

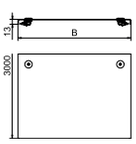


Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

VA VA 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	6052878
DRL 150 A2	150	1.00	3000	3	144.400	6052886
DRL 200 A2	200	1.00	3000	3	183.500	6052894
DRL 300 A2	300	1.00	3000	3	262.240	6052908
DRL 400 A2	400	1.00	3000	3	340.400	6052932
DRL 500 A2	500	1.25	3000	3	625.340	6052959
DRL 600 A2	600	1.25	3000	3	743.240	6052975
DRL 100 A4	100	1.00	3000	3	105.070	6052980
DRL 150 A4	150	1.00	3000	3	144.400	6052982
DRL 200 A4	200	1.00	3000	3	183.570	6052981
DRL 300 A4	300	1.00	3000	3	262.240	6052983
DRL 400 A4	400	1.00	3000	3	341.240	6052984
DRL 500 A4	500	1.25	3000	3	624.900	6052985
DRL 600 A4	600	1.25	3000	3	743.240	6052986

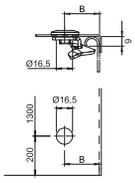


Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Turn buckle for riveting

St FT



Type		Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT		20	2.187	**6065012**

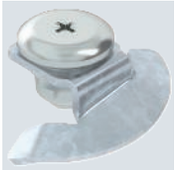
Turn buckle for additional installation or installation at a later date.

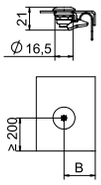
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

Turn buckle for screwing

St FT





Type		Pack Piece	Weight kg/100 pc.	Item no.
DRL H S FT		20	3.260	**6065018**

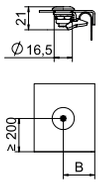
Turn buckle for additional installation or installation at a later date.

Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

Turn buckle for screwing

VA 2B



Type		Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2		20	3.260	**6065016**

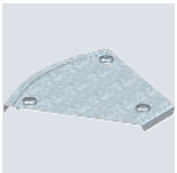
Turn buckle for additional mounting or mounting at a later date.

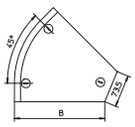
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

Cover for 45° bend

St FS DD





Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 100 FS	100	1.00	1	19.400	**7128819**
DFB 45 150 FS	150	1.00	1	27.800	**7128827**
DFB 45 200 FS	200	1.00	1	36.900	**7128835**
DFB 45 300 FS	300	1.00	1	60.200	**7128851**
DFB 45 100 DD	100	1.00	1	19.400	**7131828**
DFB 45 150 DD	150	1.00	1	27.800	**7131836**
DFB 45 200 DD	200	1.00	1	36.900	**7131844**
DFB 45 300 DD	300	1.00	1	60.200	**7131860**

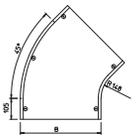
The cover can be used with fittings of all side heights.

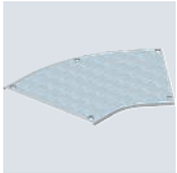
Cover for 45° bend with pre-mounted turn buckle.

St FS DD

Cover for 45° bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 400 FS	400	1.25	1	218.600	**7128886**
DFB 45 500 FS	500	1.25	1	252.800	**7128908**
DFB 45 600 FS	600	1.25	1	362.800	**7128924**
DFB 45 400 DD	400	1.25	1	218.600	**7131879**
DFB 45 500 DD	500	1.25	1	252.800	**7131887**
DFB 45 550 DD	550	1.25	1	324.000	**7131895**
DFB 45 600 DD	600	1.25	1	362.800	**7131909**



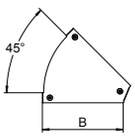


The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckle.

St FS DD

Cover for 45° Magic bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 45 100 FS	100	1.25	1	16.400	**7138360**
DFBM 45 150 FS	150	1.25	1	23.100	**7138362**
DFBM 45 200 FS	200	1.25	1	31.400	**7138364**
DFBM 45 300 FS	300	1.25	1	52.400	**7138366**
DFBM 45 400 FS	400	1.25	1	97.900	**7138368**
DFBM 45 500 FS	500	1.25	1	142.300	**7138370**
DFBM 45 600 FS	600	1.25	1	191.500	**7138372**
DFBM 45 100 DD	100	1.25	1	16.400	**7138400**
DFBM 45 150 DD	150	1.25	1	23.100	**7138402**
DFBM 45 200 DD	200	1.25	1	31.400	**7138404**
DFBM 45 300 DD	300	1.25	1	52.400	**7138406**
DFBM 45 400 DD	400	1.25	1	97.900	**7138408**
DFBM 45 500 DD	500	1.25	1	142.300	**7138410**
DFBM 45 600 DD	600	1.25	1	191.500	**7138412**

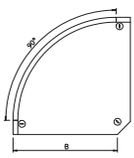


The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckles.

St FS DD

Cover for 90° bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 FS	100	1.00	1	27.000	**7129610**
DFB 90 150 FS	150	1.00	1	40.000	**7129629**
DFB 90 200 FS	200	1.00	1	56.000	**7129637**
DFB 90 300 FS	300	1.00	1	100.000	**7129653**
DFB 90 100 DD	100	1.00	1	27.000	**7130511**
DFB 90 150 DD	150	1.00	1	40.000	**7130538**
DFB 90 200 DD	200	1.00	1	56.000	**7130546**
DFB 90 300 DD	300	1.00	1	100.000	**7130562**

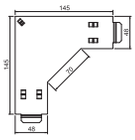


The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for 90° bend

St FS FT

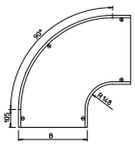


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 050 FS	50	1.00	1	10.800	**7131780**
DFB 90 050 FT	50	1.00	1	12.000	**7131785**

Fixing under cable tray cover, no fastening material required.
Cover for for 90° cable tray bend fitting, type RB 90 305 and 605.

Cover for 90° bend

St FS DD

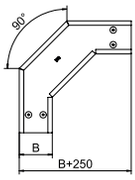


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 FS	400	1.25	1	340.000	**7129688**
DFB 90 500 FS	500	1.25	1	455.000	**7129718**
DFB 90 550 FS	550	1.25	1	517.000	**7129726**
DFB 90 600 FS	600	1.25	1	640.000	**7129734**
DFB 90 400 DD	400	1.25	1	400.000	**7130589**
DFB 90 500 DD	500	1.25	1	535.000	**7130600**
DFB 90 600 DD	600	1.25	1	750.000	**7130627**

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Cover for 90° bend

VA VA 2B

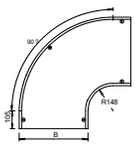


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 A2	100	1.00	1	65.000	**7134908**
DFB 90 200 A2	200	1.00	1	60.000	**7134916**
DFB 90 300 A2	300	1.00	1	102.200	**7134924**
DFB 90 100 A4	100	1.00	1	65.000	**7134982**
DFB 90 200 A4	200	1.00	1	60.000	**7134988**
DFB 90 300 A4	300	1.00	1	102.200	**7134990**

The cover can be used with fittings of all side heights.
The 100 mm width has a rectangular shape and does not correspond to the image.
Cover for 90° bend with pre-mounted turn buckles.

Cover for 90° bend

VA VA 2B



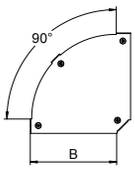
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 A2	400	1.25	1	340.000	**7134932**
DFB 90 500 A2	500	1.25	1	470.000	**7134940**
DFB 90 600 A2	600	1.25	1	589.700	**7134967**
DFB 90 400 A4	400	1.25	1	340.000	**7134992**
DFB 90 500 A4	500	1.25	1	470.000	**7134994**
DFB 90 600 A4	600	1.25	1	589.700	**7134996**

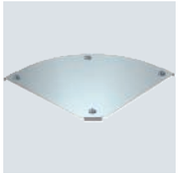
The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

St FS DD

Cover for 90° Magic bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 FS	100	1.25	1	17.100	**7138500**
DFBM 90 150 FS	150	1.25	1	28.500	**7138502**
DFBM 90 200 FS	200	1.25	1	43.000	**7138504**
DFBM 90 300 FS	300	1.25	1	81.600	**7138506**
DFBM 90 400 FS	400	1.25	1	165.000	**7138508**
DFBM 90 500 FS	500	1.25	1	244.100	**7138510**
DFBM 90 600 FS	600	1.25	1	338.100	**7138512**
DFBM 90 100 DD	100	1.25	1	17.100	**7138540**
DFBM 90 150 DD	150	1.25	1	28.500	**7138542**
DFBM 90 200 DD	200	1.25	1	43.000	**7138544**
DFBM 90 300 DD	300	1.25	1	81.600	**7138546**
DFBM 90 400 DD	400	1.25	1	165.000	**7138548**
DFBM 90 500 DD	500	1.25	1	244.100	**7138550**
DFBM 90 600 DD	600	1.25	1	338.100	**7138552**



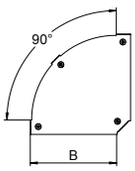


The cover can be used with fittings of all side heights.
Cover for 90° bend with premounted turn buckles.

VA VA 2B

Cover for 90° Magic bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 A2	100	1.25	1	18.500	**7138570**
DFBM 90 150 A2	150	1.25	1	29.900	**7138572**
DFBM 90 200 A2	200	1.25	1	44.400	**7138574**
DFBM 90 300 A2	300	1.25	1	83.000	**7138576**
DFBM 90 400 A2	400	1.25	1	166.400	**7138578**
DFBM 90 500 A2	500	1.25	1	245.500	**7138580**
DFBM 90 600 A2	600	1.25	1	339.500	**7138582**
DFBM 90 100 A4	100	1.25	1	18.500	**7138590**
DFBM 90 150 A4	150	1.25	1	29.900	**7138592**
DFBM 90 200 A4	200	1.25	1	44.400	**7138594**
DFBM 90 300 A4	300	1.25	1	83.000	**7138596**
DFBM 90 400 A4	400	1.25	1	166.400	**7138598**
DFBM 90 500 A4	500	1.25	1	245.500	**7138600**

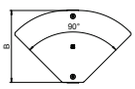


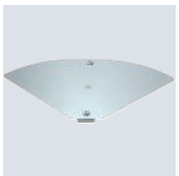
The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

St FS DD

Cover for variable Magic bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBMV 100 FS	100	1.00	1	17.300	**6040760**
DFBMV 150 FS	150	1.00	1	28.500	**6040762**
DFBMV 200 FS	200	1.00	1	42.800	**6040764**
DFBMV 300 FS	300	1.00	1	81.200	**6040766**
DFBMV 400 FS	400	1.25	1	164.400	**6040768**
DFBMV 500 FS	500	1.25	1	244.500	**6040770**
DFBMV 600 FS	600	1.25	1	340.600	**6040772**
DFBMV 100 DD	100	1.00	1	17.300	**6040780**
DFBMV 200 DD	200	1.00	1	42.800	**6040784**
DFBMV 300 DD	300	1.00	1	81.200	**6040786**
DFBMV 400 DD	400	1.25	1	164.400	**6040788**
DFBMV 500 DD	500	1.25	1	244.500	**6040790**
DFBMV 600 DD	600	1.25	1	340.600	**6040792**



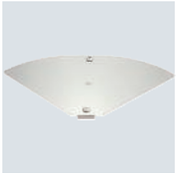


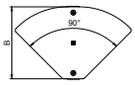
Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for variable Magic bend

VA VA 2B



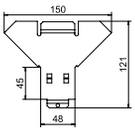


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBMV 100 A2	100	1.00	1	16.800	**6040800**
DFBMV 150 A2	150	1.00	1	27.500	**6040802**
DFBMV 200 A2	200	1.00	1	41.300	**6040804**
DFBMV 300 A2	300	1.00	1	78.100	**6040806**
DFBMV 400 A2	400	1.25	1	158.100	**6040808**
DFBMV 500 A2	500	1.25	1	234.900	**6040810**
DFBMV 600 A2	600	1.25	1	327.200	**6040812**
DFBMV 100 A4	100	1.00	1	16.800	**6040820**
DFBMV 150 A4	150	1.00	1	27.500	**6040822**
DFBMV 200 A4	200	1.00	1	41.300	**6040824**
DFBMV 300 A4	300	1.00	1	78.100	**6040826**
DFBMV 400 A4	400	1.25	1	158.100	**6040828**
DFBMV 500 A4	500	1.25	1	234.900	**6040830**
DFBMV 600 A4	600	1.25	1	327.200	**6040832**

Cover for the variable bend, adjustable to an angle of 0 to 90°, locking through turn buckle and through overlapping with cable tray cover.

Cover for add-on tee

St FS FT

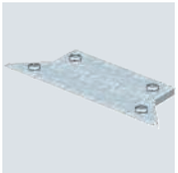


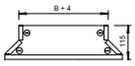
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 050 FS	50	1.00	1	8.450	**7132110**
DFAA 050 FT	50	1.00	1	9.380	**7132115**

Cover for for add-on tee cable tray fitting, type RAA 305 and 605.
Fixing under cable tray cover, no fastening material required.

Cover for add-on tee

St FS DD



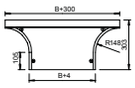


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 FS	100	1.00	1	25.000	**7128428**
DFAA 150 FS	150	1.00	1	30.000	**7128436**
DFAA 200 FS	200	1.00	1	34.000	**7128444**
DFAA 300 FS	300	1.00	1	43.000	**7128460**
DFAA 100 DD	100	1.00	1	25.000	**7131305**
DFAA 200 DD	200	1.00	1	34.000	**7131321**
DFAA 300 DD	300	1.00	1	43.000	**7131348**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for add-on tee

St FS DD



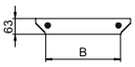
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 500 FS	500	1.25	1	174.000	**7128509**
DFAA 550 FS	550	1.25	1	186.000	**7128517**
DFAA 600 FS	600	1.25	1	200.000	**7128525**
DFAA 400 DD	400	1.25	1	145.000	**7131356**
DFAA 550 DD	550	1.25	1	186.000	**7131372**
DFAA 600 DD	600	1.25	1	214.000	**7131380**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS DD

Cover for Magic add-on tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 FS	100	1.25	1	12.400	**7138640**
DFAAM 150 FS	150	1.25	1	14.800	**7138642**
DFAAM 200 FS	200	1.25	1	17.300	**7138644**
DFAAM 300 FS	300	1.25	1	22.200	**7138646**
DFAAM 400 FS	400	1.25	1	32.800	**7138648**
DFAAM 500 FS	500	1.25	1	39.000	**7138650**
DFAAM 600 FS	600	1.25	1	45.100	**7138652**
DFAAM 100 DD	100	1.25	1	12.400	**7138680**
DFAAM 150 DD	150	1.25	1	14.800	**7138682**
DFAAM 200 DD	200	1.25	1	17.300	**7138684**
DFAAM 300 DD	300	1.25	1	22.200	**7138686**
DFAAM 400 DD	400	1.25	1	32.800	**7138688**
DFAAM 500 DD	500	1.25	1	39.000	**7138690**
DFAAM 600 DD	600	1.25	1	45.100	**7138692**

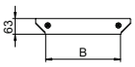


Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

VA VA 2B

Cover for Magic add-on tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 A2	100	1.25	1	11.100	**7138720**
DFAAM 150 A2	150	1.25	1	13.500	**7138722**
DFAAM 200 A2	200	1.25	1	14.500	**7138724**
DFAAM 300 A2	300	1.25	1	20.900	**7138726**
DFAAM 400 A2	400	1.25	1	31.700	**7138728**
DFAAM 500 A2	500	1.25	1	37.900	**7138730**
DFAAM 600 A2	600	1.25	1	44.100	**7138732**
DFAAM 100 A4	100	1.25	1	11.100	**7138740**
DFAAM 150 A4	150	1.25	1	13.500	**7138742**
DFAAM 200 A4	200	1.25	1	14.500	**7138744**
DFAAM 300 A4	300	1.25	1	20.900	**7138746**
DFAAM 400 A4	400	1.25	1	31.700	**7138748**
DFAAM 500 A4	500	1.25	1	37.900	**7138750**
DFAAM 600 A4	600	1.25	1	44.100	**7138752**

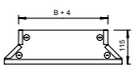


Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

VA VA 2B

Cover for add-on tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 A2	100	1.00	1	26.700	**7136900**
DFAA 200 A2	200	1.00	1	35.800	**7136919**
DFAA 300 A2	300	1.00	1	44.800	**7136927**
DFAA 200 A4	200	1.00	1	35.800	**7136921**
DFAA 300 A4	300	1.00	1	44.800	**7136929**

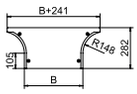


Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for add-on tee

VA VA 2B

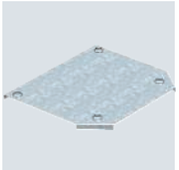


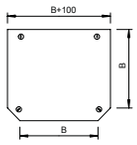
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 A2	400	1.25	1	176.800	**7136935**
DFAA 500 A2	500	1.25	1	208.000	**7136943**
DFAA 600 A2	600	1.25	1	240.000	**7136978**
DFAA 400 A4	400	1.25	1	176.800	**7136937**
DFAA 500 A4	500	1.25	1	210.000	**7136944**
DFAA 600 A4	600	1.25	1	243.300	**7136980**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for tee

St FS DD



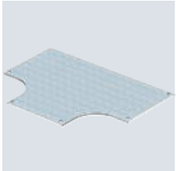


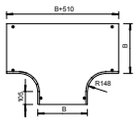
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFT 100 FS	100	1.00	1	30.400	**7128215**
DFT 150 FS	150	1.00	1	40.000	**7128223**
DFT 200 FS	200	1.00	1	60.000	**7128231**
DFT 300 FS	300	1.00	1	115.000	**7128266**
DFT 100 DD	100	1.00	1	27.000	**7129319**
DFT 150 DD	150	1.00	1	45.000	**7129327**
DFT 200 DD	200	1.00	1	65.000	**7129335**
DFT 300 DD	300	1.00	1	125.000	**7129351**

Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

Cover for tee

St FS DD





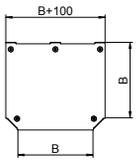
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFT 400 FS	400	1.25	1	505.000	**7128282**
DFT 500 FS	500	1.25	1	670.000	**7128304**
DFT 600 FS	600	1.25	1	854.000	**7128320**
DFT 400 DD	400	1.25	1	600.000	**7129386**
DFT 500 DD	500	1.25	1	798.000	**7129408**
DFT 600 DD	600	1.25	1	1,019.000	**7129424**

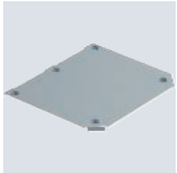
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

Cover for Magic tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFTM 100 FS	100	1.25	1	30.400	**7138790**
DFTM 150 FS	150	1.25	1	45.700	**7138792**
DFTM 200 FS	200	1.25	1	64.900	**7138794**
DFTM 300 FS	300	1.25	1	117.600	**7138796**
DFTM 400 FS	400	1.25	1	226.500	**7138798**
DFTM 500 FS	500	1.25	1	325.800	**7138800**
DFTM 600 FS	600	1.25	1	449.400	**7138802**
DFTM 100 DD	100	1.25	1	30.400	**7138830**
DFTM 150 DD	150	1.25	1	45.700	**7138832**
DFTM 200 DD	200	1.25	1	64.900	**7138834**
DFTM 300 DD	300	1.25	1	117.600	**7138836**
DFTM 400 DD	400	1.25	1	226.500	**7138838**
DFTM 500 DD	500	1.25	1	328.400	**7138840**
DFTM 600 DD	600	1.25	1	449.400	**7138842**



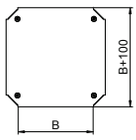


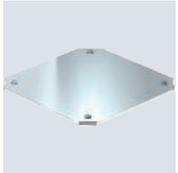
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

Cover for Magic cross-over

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFKM 100 FS	100	1.25	1	36.300	**7138930**
DFKM 150 FS	150	1.25	1	53.700	**7138932**
DFKM 200 FS	200	1.25	1	75.000	**7138934**
DFKM 400 FS	400	1.25	1	246.900	**7138938**
DFKM 500 FS	500	1.25	1	353.700	**7138940**
DFKM 600 FS	600	1.25	1	480.100	**7138942**
DFKM 100 DD	100	1.25	1	36.300	**7138970**
DFKM 200 DD	200	1.25	1	75.000	**7138974**
DFKM 300 DD	300	1.25	1	123.100	**7138976**
DFKM 400 DD	400	1.25	1	246.900	**7138978**
DFKM 500 DD	500	1.25	1	353.700	**7138980**
DFKM 600 DD	600	1.25	1	480.100	**7138982**



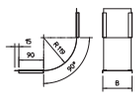


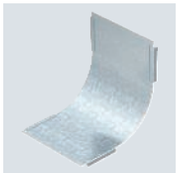
Cover for cross-over with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS DD

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	**7130805**
DBV 150 S FS	60	150	0.75	1	30.000	**7130809**
DBV 200 S FS	60	200	0.75	1	39.000	**7130813**
DBV 300 S FS	60	300	0.75	1	49.000	**7130817**
DBV 400 S FS	60	400	0.75	1	68.000	**7130821**
DBV 500 S FS	60	500	0.75	1	86.000	**7130825**
DBV 600 S FS	60	600	0.75	1	105.000	**7130829**
DBV 100 S DD	60	100	0.75	1	34.000	**7131508**
DBV 150 S DD	60	150	0.75	1	50.000	**7131509**
DBV 200 S DD	60	200	0.75	1	66.000	**7131510**
DBV 300 S DD	60	300	0.75	1	81.000	**7131514**
DBV 400 S DD	60	400	0.75	1	113.000	**7131518**
DBV 500 S DD	60	500	0.75	1	144.000	**7131524**
DBV 600 S DD	60	600	0.75	1	176.000	**7131527**





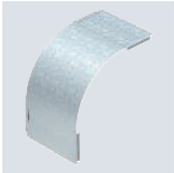
Cover for all rising vertical bends.
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

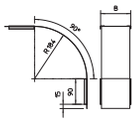
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

System accessories

Cover for 90° vertical bend, falling

St FS DD





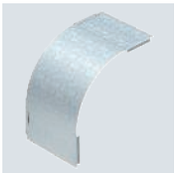
Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	**7130852**
DBV 60 150 F FS	60	150	0.75	1	36.900	**7130856**
DBV 60 200 F FS	60	200	0.75	1	48.700	**7130860**
DBV 60 300 F FS	60	300	0.75	1	72.300	**7130864**
DBV 60 400 F FS	60	400	0.75	1	95.800	**7130868**
DBV 60 500 F FS	60	500	0.75	1	119.300	**7130872**
DBV 60 600 F FS	60	600	0.75	1	142.800	**7130876**
DBV 60 100 F DD	60	100	0.75	1	42.100	**7131632**
DBV 60 150 F DD	60	150	0.75	1	61.700	**7131634**
DBV 60 200 F DD	60	200	0.75	1	81.300	**7131636**
DBV 60 300 F DD	60	300	0.75	1	120.400	**7131640**
DBV 60 400 F DD	60	400	0.75	1	159.600	**7131644**
DBV 60 500 F DD	60	500	0.75	1	198.800	**7131648**
DBV 60 600 F DD	60	600	0.75	1	238.000	**7131652**

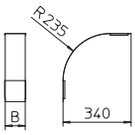
Cover for falling vertical bends of side height 60 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend 85, falling

St FS





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 85 100 F FS	85	100	0.75	1	27.100	**7130990**
DBV 85 200 F FS	85	200	0.75	1	52.500	**7130994**
DBV 85 300 F FS	85	300	0.75	1	77.800	**7130998**
DBV 85 400 F FS	85	400	0.75	1	103.200	**7131002**
DBV 85 500 F FS	85	500	0.75	1	128.500	**7131006**
DBV 85 600 F FS	85	600	0.75	1	153.900	**7131010**

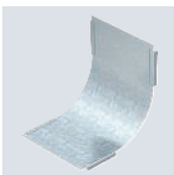
Cover for falling vertical bends of side height 85 mm.

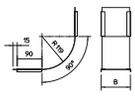
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Lid, vertical bend, rising

Cover for 90° vertical bend, rising

St FS DD





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	**7130805**
DBV 150 S FS	60	150	0.75	1	30.000	**7130809**
DBV 200 S FS	60	200	0.75	1	39.000	**7130813**
DBV 300 S FS	60	300	0.75	1	49.000	**7130817**
DBV 400 S FS	60	400	0.75	1	68.000	**7130821**
DBV 500 S FS	60	500	0.75	1	86.000	**7130825**
DBV 600 S FS	60	600	0.75	1	105.000	**7130829**
DBV 100 S DD	60	100	0.75	1	34.000	**7131508**
DBV 150 S DD	60	150	0.75	1	50.000	**7131509**
DBV 200 S DD	60	200	0.75	1	66.000	**7131510**
DBV 300 S DD	60	300	0.75	1	81.000	**7131514**
DBV 400 S DD	60	400	0.75	1	113.000	**7131518**
DBV 500 S DD	60	500	0.75	1	144.000	**7131524**
DBV 600 S DD	60	600	0.75	1	176.000	**7131527**

Cover for all rising vertical bends.

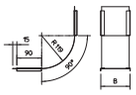
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

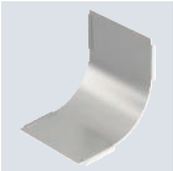
Lid, vertical bend, rising

VA 2B

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S A4	60	100	0.75	1	21.000	**7130920**
DBV 200 S A4	60	200	0.75	1	39.000	**7130922**
DBV 300 S A4	60	300	0.75	1	49.000	**7130924**
DBV 400 S A4	60	400	0.75	1	68.000	**7130926**
DBV 500 S A4	60	500	0.75	1	86.000	**7130928**
DBV 600 S A4	60	600	0.75	1	105.000	**7130930**





Cover for all rising vertical bends.

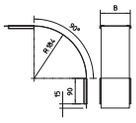
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

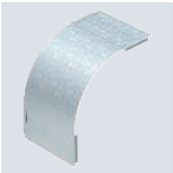
Lid, vertical bend, falling

St FS DD

Cover for 90° vertical bend, falling

Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	**7130852**
DBV 60 150 F FS	60	150	0.75	1	36.900	**7130856**
DBV 60 200 F FS	60	200	0.75	1	48.700	**7130860**
DBV 60 300 F FS	60	300	0.75	1	72.300	**7130864**
DBV 60 400 F FS	60	400	0.75	1	95.800	**7130868**
DBV 60 500 F FS	60	500	0.75	1	119.300	**7130872**
DBV 60 600 F FS	60	600	0.75	1	142.800	**7130876**
DBV 60 100 F DD	60	100	0.75	1	42.100	**7131632**
DBV 60 150 F DD	60	150	0.75	1	61.700	**7131634**
DBV 60 200 F DD	60	200	0.75	1	81.300	**7131636**
DBV 60 300 F DD	60	300	0.75	1	120.400	**7131640**
DBV 60 400 F DD	60	400	0.75	1	159.600	**7131644**
DBV 60 500 F DD	60	500	0.75	1	198.800	**7131648**
DBV 60 600 F DD	60	600	0.75	1	238.000	**7131652**





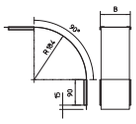
Cover for falling vertical bends of side height 60 mm.

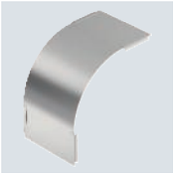
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

VA 2B

Cover for 90° vertical bend 60, falling

Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F A4	60	100	0.75	1	42.100	**7130972**
DBV 60 200 F A4	60	200	0.75	1	81.300	**7130974**
DBV 60 300 F A4	60	300	0.75	1	120.400	**7130976**
DBV 60 400 F A4	60	400	0.75	1	159.600	**7130978**
DBV 60 500 F A4	60	500	0.75	1	198.800	**7130980**
DBV 60 600 F A4	60	600	0.75	1	238.000	**7130982**





Cover for falling vertical bends of side height 60 mm.

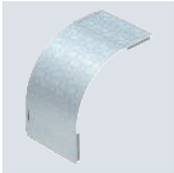
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

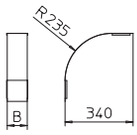
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Lid, vertical bend, falling

Cover for 90° vertical bend 85, falling

St FS DD





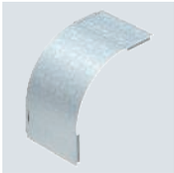
Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 85 100 F FS	85	100	0.75	1	27.100	**7130990**
DBV 85 200 F FS	85	200	0.75	1	52.500	**7130994**
DBV 85 300 F FS	85	300	0.75	1	77.800	**7130998**
DBV 85 400 F FS	85	400	0.75	1	103.200	**7131002**
DBV 85 500 F FS	85	500	0.75	1	128.500	**7131006**
DBV 85 600 F FS	85	600	0.75	1	153.900	**7131010**
DBV 85 100 F DD	85	100	0.75	1	45.200	**7131672**
DBV 85 200 F DD	85	200	0.75	1	87.500	**7131676**
DBV 85 300 F DD	85	300	0.75	1	129.700	**7131680**
DBV 85 400 F DD	85	400	0.75	1	172.000	**7131684**
DBV 85 500 F DD	85	500	0.75	1	214.200	**7131688**
DBV 85 600 F DD	85	600	0.75	1	256.000	**7131692**

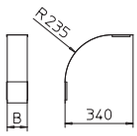
Cover for falling vertical bends of side height 85 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover for 90° vertical bend 110, falling

St FS DD





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 110 100 F FS	110	100	0.75	1	29.000	**7131030**
DBV 110 150 F FS	110	150	0.75	1	42.600	**7131032**
DBV 110 200 F FS	110	200	0.75	1	56.200	**7131034**
DBV 110 300 F FS	110	300	0.75	1	83.400	**7131038**
DBV 110 400 F FS	110	400	0.75	1	110.600	**7131042**
DBV 110 500 F FS	110	500	0.75	1	137.800	**7131046**
DBV 110 600 F FS	110	600	0.75	1	165.000	**7131052**
DBV 110 550 F FS	110	550	0.75	1	151.400	**7131050**
DBV 110 100 F DD	110	100	0.75	1	48.300	**7131556**
DBV 110 200 F DD	110	200	0.75	1	93.700	**7131560**
DBV 110 300 F DD	110	300	0.75	1	139.000	**7131564**
DBV 110 400 F DD	110	400	0.75	1	184.300	**7131568**
DBV 110 500 F DD	110	500	0.75	1	229.700	**7131572**
DBV 110 600 F DD	110	600	0.75	1	275.000	**7131576**

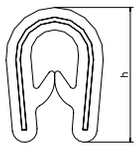
Cover for falling vertical bends of side height 110 mm.

The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Edge protection strips

Edge protection strip, black

PVC



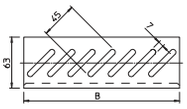
Type	For metal thickness mm	Dim. h mm	Colour	Length mm	Pack m	Weight kg/100 m	Item no.
KSB 2 PVC	0.75-2	10	Black	10000	10	8.000	**6072909**
KSB 4 PVC	1.5-4	15	Black	10000	10	15.000	**6072895**

Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

St FS DD

Bottom end plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 050 FS	50	1	2.215	**7083041**
BEB 100 FS	100	1	4.599	**7083106**
BEB 150 FS	150	1	6.983	**7083157**
BEB 200 FS	200	1	9.367	**7083203**
BEB 300 FS	300	1	14.100	**7083300**
BEB 400 FS	400	1	18.900	**7083408**
BEB 500 FS	500	1	23.700	**7083505**
BEB 550 FS	550	1	26.100	**7083556**
BEB 600 FS	600	1	28.400	**7083602**
BEB 050 DD	50	1	2.215	**7083616**
BEB 100 DD	100	1	4.599	**7083618**
BEB 150 DD	150	1	6.983	**7083622**
BEB 200 DD	200	1	9.367	**7083626**
BEB 300 DD	300	1	14.100	**7083630**
BEB 400 DD	400	1	18.900	**7083634**
BEB 500 DD	500	1	23.700	**7083638**
BEB 550 DD	550	1	26.100	**7083640**
BEB 600 DD	600	1	28.400	**7083642**



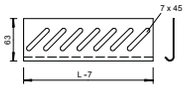
For fastening, please order screws, type FRSB M6x12, separately.

Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

VA VA 2B

Bottom end plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 100 A2	100	1	4.599	**7084013**
BEB 150 A2	150	1	6.983	**7084015**
BEB 200 A2	200	1	9.367	**7084048**
BEB 300 A2	300	1	14.100	**7084064**
BEB 400 A2	400	1	18.900	**7084080**
BEB 500 A2	500	1	23.700	**7084102**
BEB 600 A2	600	1	28.400	**7084129**
BEB 100 A4	100	1	4.599	**7084141**
BEB 150 A4	150	1	6.983	**7084142**
BEB 200 A4	200	1	9.367	**7084143**
BEB 300 A4	300	1	14.100	**7084145**
BEB 400 A4	400	1	18.900	**7084147**
BEB 500 A4	500	1	23.700	**7084149**
BEB 600 A4	600	1	28.400	**7084151**



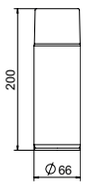
For fastening, please order screws, type FRSB M6x12, separately.

For base reinforcement at the ends of the tray and as cable protection.

Zinc touch-ups

Zinc repairs

Type	Pack Piece	Weight kg/100 pc.	Item no.
ZSF	1	45.000	**2362970**



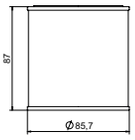
The zinc spray can be used in the temperature range - 20 °C to 150 °C.

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

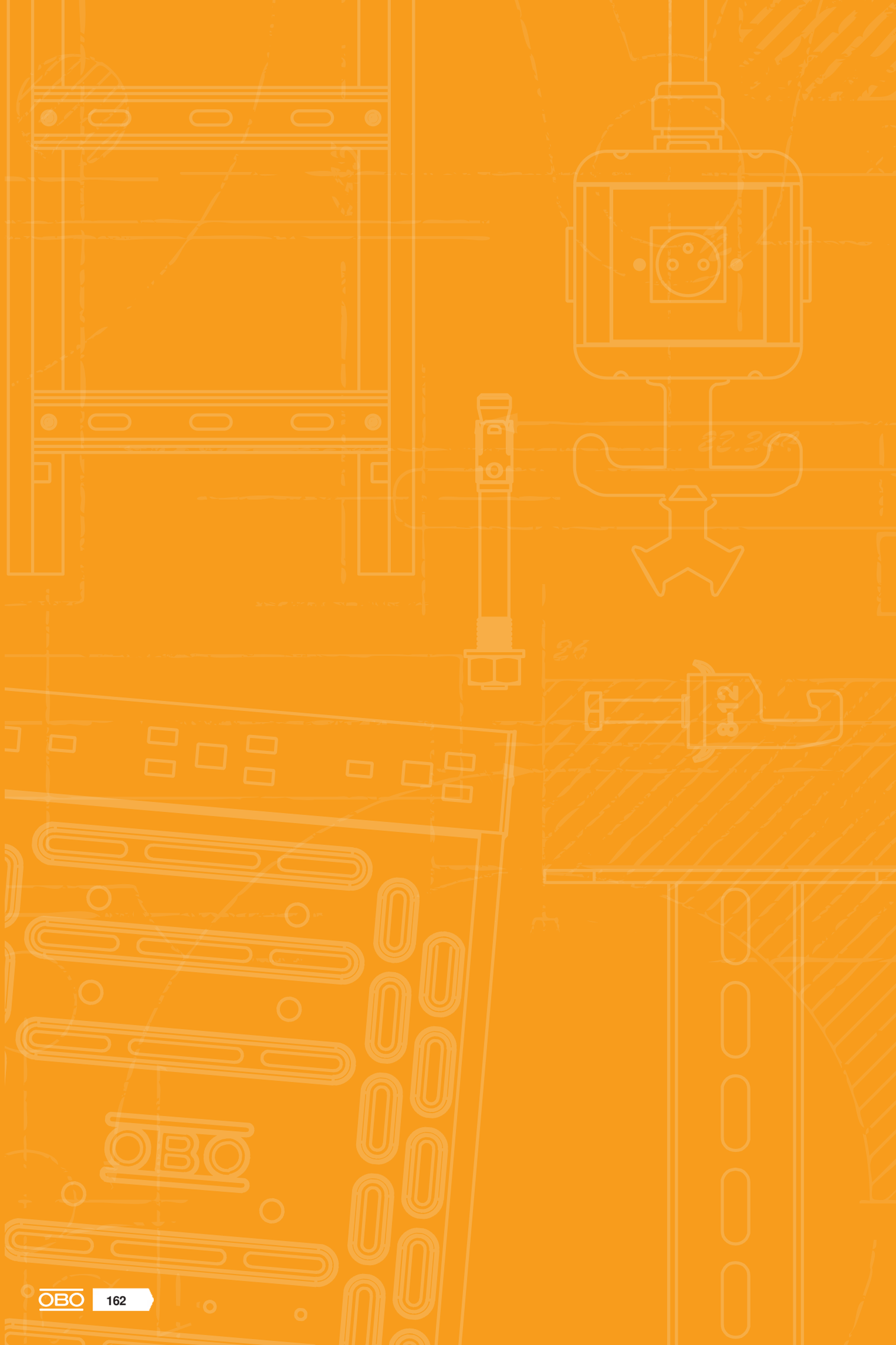
Zinc touch-ups

Zinc repair paint



Type		Pack Piece	Weight kg/100 pc.	Item no.
ZABF		1	86.000	**2362979**

Zinc repair paint for blank areas on the hot galvanised steel parts, to eliminate grinding and welding damage on the galvanisation and to adapt ungalvanised small parts on galvanised structures.
Resistant to normal weathering influences. Light shade, similar to zinc. Before paint application, the substrate must be carefully cleaned and roughened. Paint application with a brush.



Wide span systems

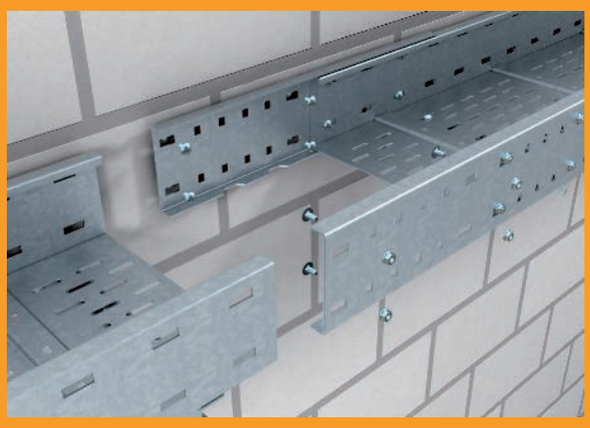
Wide span trays 164

Wide span ladder 182

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

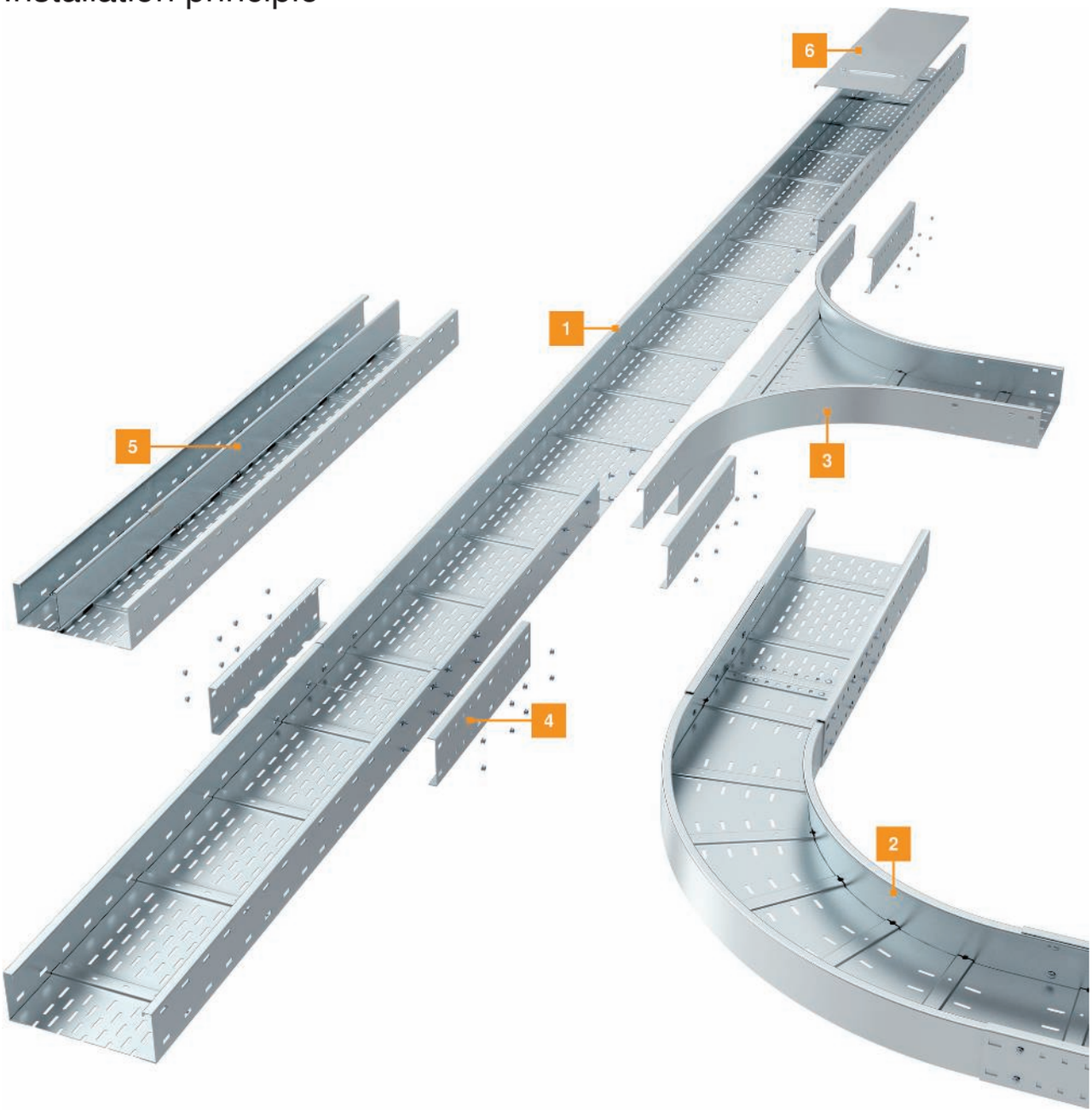
Wide span cable tray systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.



Wide span cable tray systems

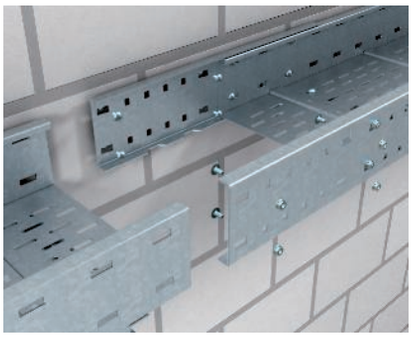
Installation principle



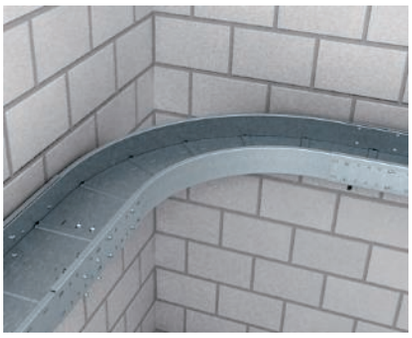
1	Wide span cable tray
2	90° bend
3	Add-on tee
4	Straight connector
5	Barrier strip
6	Cover with turn buckle

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

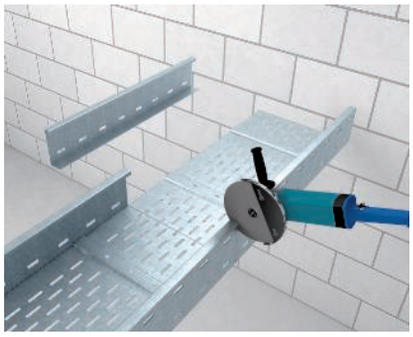
Mounting aid



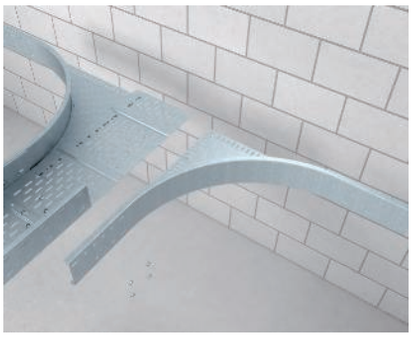
Wide span straight connection
Horizontal straight connection of wide span cable trays with straight connector set, type WRVL.



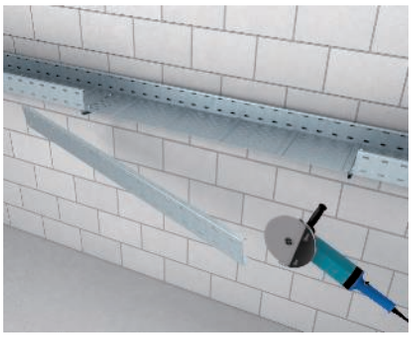
Installation of 90° bend
Bend in combination with wide span cable trays. The bend is connected to the wide span cable tray using external connectors and a joint plate.



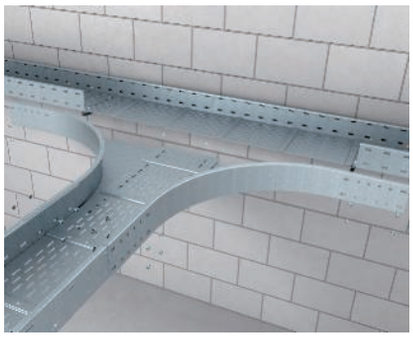
Creation of a tee with add-on corner
Removal of the side rails from the wide span tray.



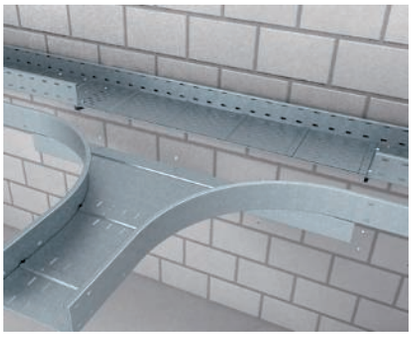
Creation of a tee with add-on corner
Installation of the second add-on corner, type WEAS 110.



Creation of a tee with add-on corner
Removal of the side rail from the ongoing wide span tray.



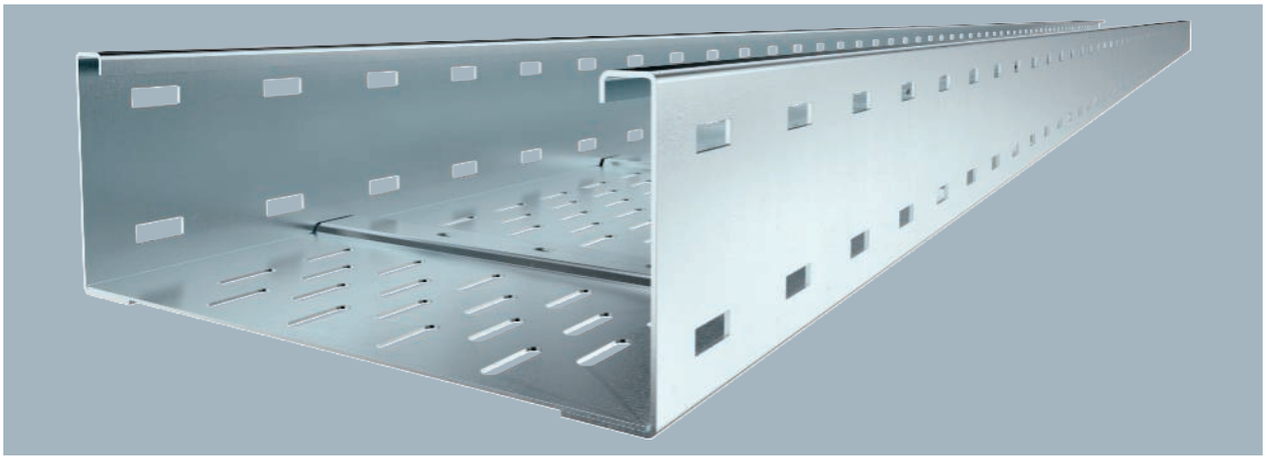
Creation of a tee with add-on corner
Installation of the finished branch to the ongoing wide span tray.



Mounting of mounting/branch piece
Add-on tee in combination with wide span cable tray. The side rail is removed for installation.

St FS

Wide span cable tray WKSG 110

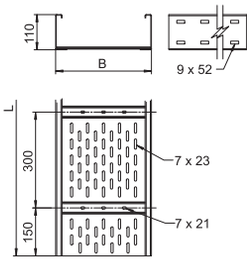


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

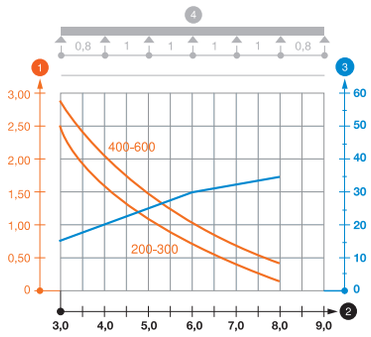
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 FS	200	2.00	6	712.610	**6098111**
WKSG 130 FS	300	2.00	6	817.250	**6098115**
WKSG 140 FS	400	2.00	6	921.900	**6098119**
WKSG 150 FS	500	2.00	6	1,023.340	**6098123**
WKSG 160 FS	600	2.00	6	1,131.170	**6098127**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 FS	6000	200	202
WKSG 130 FS	6000	300	305
WKSG 140 FS	6000	400	408
WKSG 150 FS	6000	500	511
WKSG 160 FS	6000	600	614

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FS	2.9	2	1.5	1	0.7	0.4
WKSG 150 FS	2.9	2	1.5	1	0.7	0.4
WKSG 160 FS	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

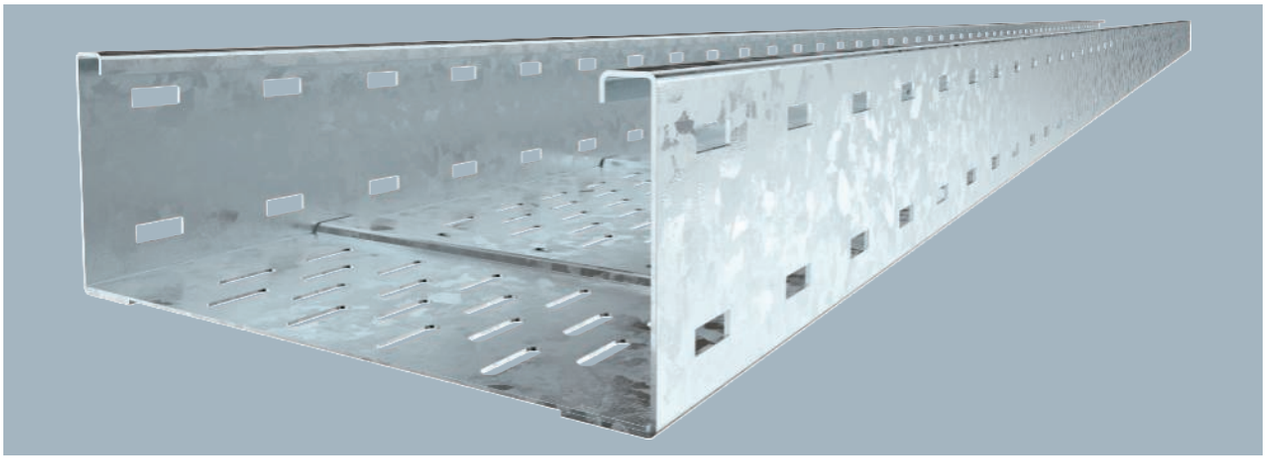
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 110

Wide span cable tray WKSG 110

St FT



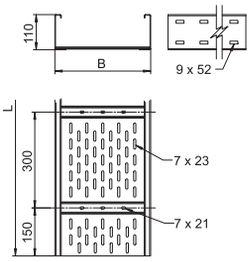
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 FT	200	2.00	6	751.570	**6098141**
WKSG 130 FT	300	2.00	6	863.150	**6098145**
WKSG 140 FT	400	2.00	6	974.740	**6098149**
WKSG 150 FT	500	2.00	6	1,086.320	**6098153**
WKSG 160 FT	600	2.00	6	1,197.890	**6098157**

Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

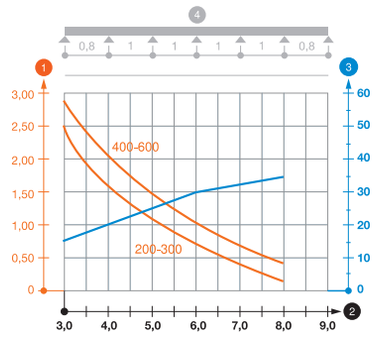
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 FT	6000	200	202
WKSG 130 FT	6000	300	305
WKSG 140 FT	6000	400	408
WKSG 150 FT	6000	500	511
WKSG 160 FT	6000	600	614

Dimensions



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FT	2.9	2	1.5	1	0.7	0.4
WKSG 150 FT	2.9	2	1.5	1	0.7	0.4
WKSG 160 FT	2.9	2	1.5	1	0.7	0.4

Load



Load diagram, wide span cable tray, type WKSG 110

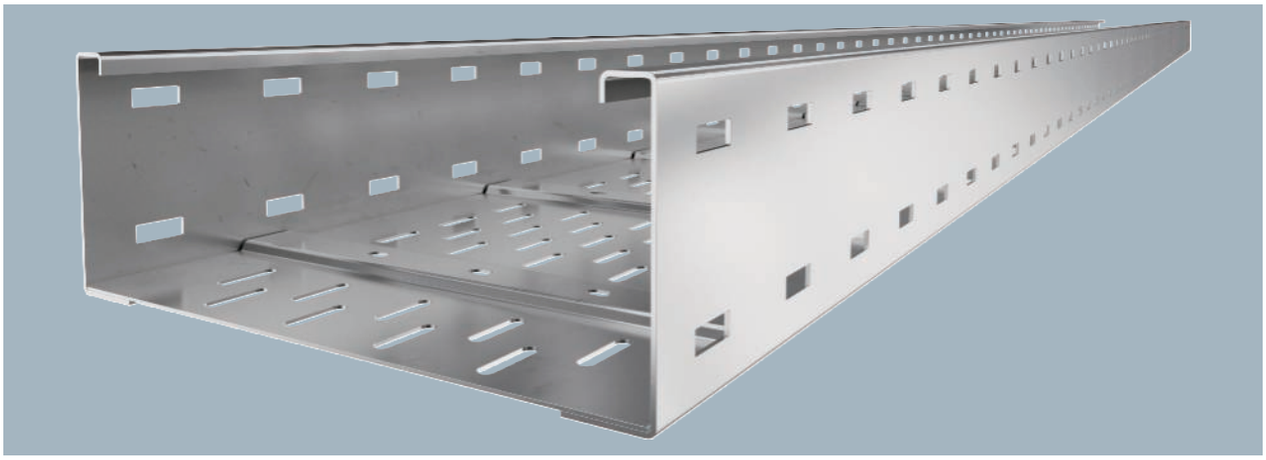
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Wide span cable tray WKSG 110

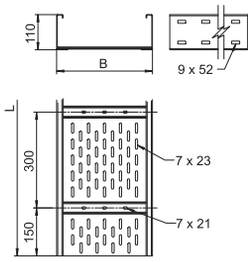


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

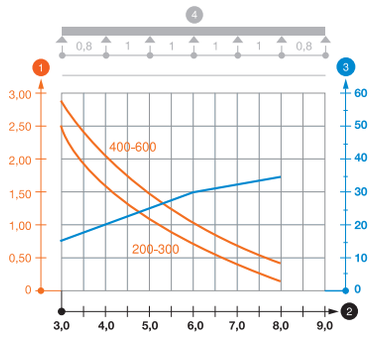
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 A2	200	2.00	6	713.833	**6098161**
WKSG 130 A2	300	2.00	6	821.933	**6098165**
WKSG 140 A2	400	2.00	6	927.100	**6098169**
WKSG 150 A2	500	2.00	6	1,041.600	**6098173**
WKSG 160 A2	600	2.00	6	1,143.283	**6098177**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 A2	6000	200	202
WKSG 130 A2	6000	300	305
WKSG 140 A2	6000	400	408
WKSG 150 A2	6000	500	511
WKSG 160 A2	6000	600	614

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 A2	2.9	2	1.5	1	0.7	0.4
WKSG 150 A2	2.9	2	1.5	1	0.7	0.4
WKSG 160 A2	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

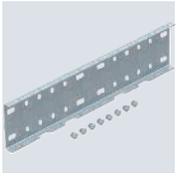
— Strut bend curve according to support width

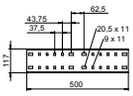
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 110

Straight connector 110

St FS FT





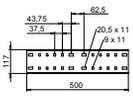
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	**6091164**
WRVL 110 FT	110	2	157.800	**6091180**

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Straight connector 110

VA VA 2B



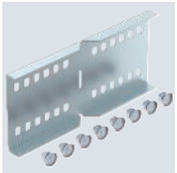
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	**6091229**
WRVL 110 A4	110	2	154.400	**6091234**

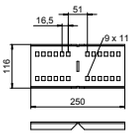
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Angle connector 110

St FS





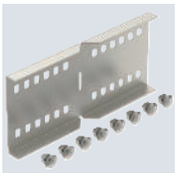
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	**6091377**

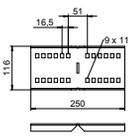
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Angle connector 110

VA VA 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	**6091393**
WRWVK 110 A4	110	2	82.000	**6091397**

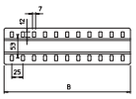
Including appropriate bolts, washers and nuts.

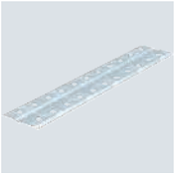
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

St FS DD

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 550 FS	550	20	53.500	7070229
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 550 DD	550	20	53.500	7070330
SSLB 600 DD	600	20	58.000	7070334



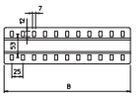


Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

VA VA 2B

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	7070353
SSLB 200 A2	200	20	18.500	7070361
SSLB 300 A2	300	20	29.200	7070365
SSLB 400 A2	400	20	38.200	7070369
SSLB 500 A2	500	20	49.000	7070373
SSLB 600 A2	600	20	58.000	7070381
SSLB 100 A4	100	20	7.700	7070390
SSLB 200 A4	200	20	18.500	7070392
SSLB 300 A4	300	20	29.200	7070394
SSLB 400 A4	400	20	38.200	7070396
SSLB 500 A4	500	20	49.000	7070398
SSLB 600 A4	600	20	58.000	7070400

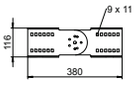


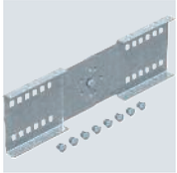
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	6091318
WRGV 110 FT	110	2	119.000	6091334



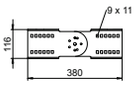


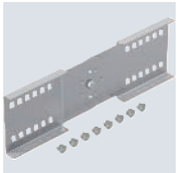
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

VA VA 2B

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338
WRGV 110 A4	110	2	120.000	6091343





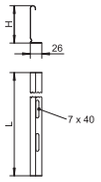
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 110

Separating retainer 85

St FS DD

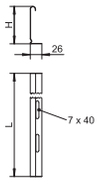


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.

Barrier strip 85

VA 2B

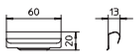


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	**6062173**

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

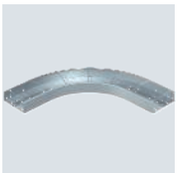


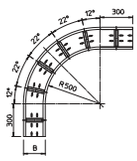
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

90° bend 110

St FS FT





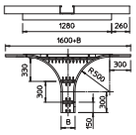
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 120 FS	110	200	1	1,145.500	**6098304**
WRB 90 130 FS	110	300	1	1,428.000	**6098308**
WRB 90 140 FS	110	400	1	1,652.400	**6098312**
WRB 90 150 FS	110	500	1	1,935.000	**6098316**
WRB 90 160 FS	110	600	1	2,234.000	**6098320**
WRB 90 120 FT	110	200	1	1,208.200	**6098344**
WRB 90 130 FT	110	300	1	1,505.000	**6098348**
WRB 90 140 FT	110	400	1	1,747.400	**6098352**
WRB 90 150 FT	110	500	1	2,043.000	**6098356**
WRB 90 160 FT	110	600	1	2,360.000	**6098360**

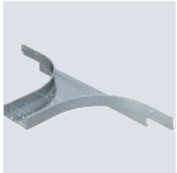
90° bend, horizontal, for all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	**6098405**
WRAA 130 FS	110	300	1	1,605.000	**6098409**
WRAA 140 FS	110	400	1	1,735.000	**6098413**
WRAA 150 FS	110	500	1	1,865.000	**6098417**
WRAA 160 FS	110	600	1	1,995.000	**6098421**
WRAA 120 FT	110	200	1	1,545.000	**6098445**
WRAA 130 FT	110	300	1	1,680.000	**6098449**
WRAA 140 FT	110	400	1	1,820.000	**6098453**
WRAA 150 FT	110	500	1	1,955.000	**6098457**
WRAA 160 FT	110	600	1	2,080.000	**6098461**



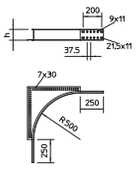


Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS FT

Corner extension piece 110

Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 FS	110	1	485.500	**6098475**
WEAS 110 FT	110	1	586.200	**6098479**

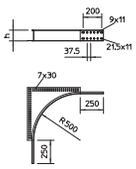


Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

VA 2B

Corner extension piece 110

Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 A2	110	1	485.500	**6098483**



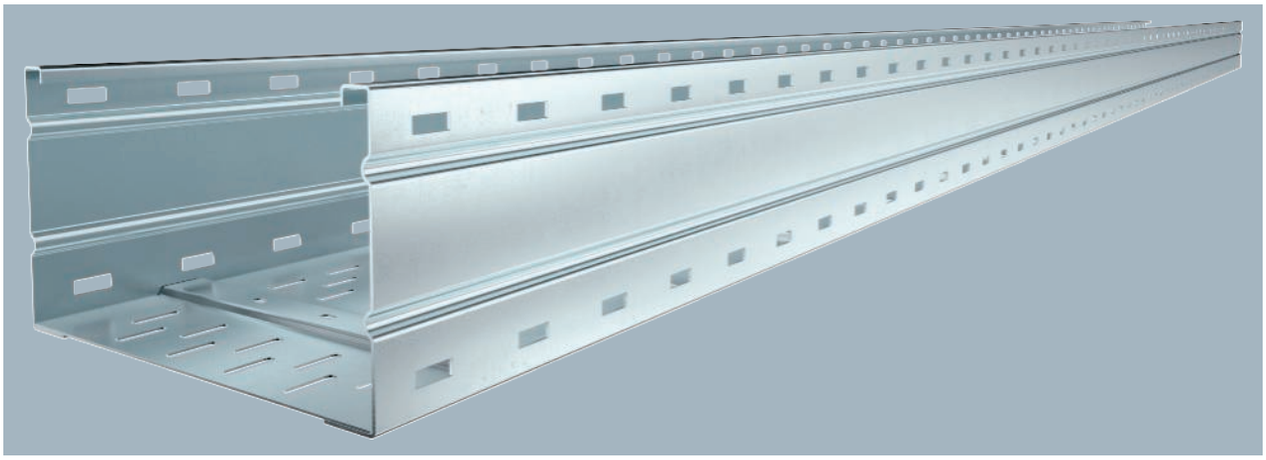
Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 160

Wide span cable tray WKSG 160

St FS



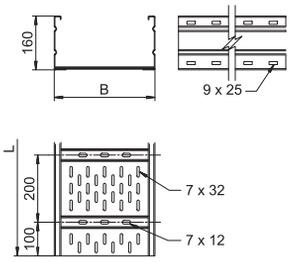
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
WKSG 162 FS	200	2.00		6	895.067	**6098501**
WKSG 163 FS	300	2.00		6	1,003.170	**6098505**
WKSG 164 FS	400	2.00		6	1,108.340	**6098509**
WKSG 165 FS	500	2.00		6	1,216.420	**6098513**
WKSG 166 FS	600	2.00		6	1,324.500	**6098517**

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

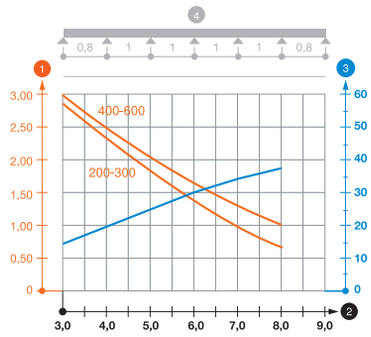
Type	Dim. L mm	Dim. B mm	Usable cross-section cm^2
WKSG 162 FS	6000	200	302
WKSG 163 FS	6000	300	455
WKSG 164 FS	6000	400	608
WKSG 165 FS	6000	500	761
WKSG 166 FS	6000	600	914

Dimensions



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 FS	3	2.5	2	1.6	1.3	1
WKSG 165 FS	3	2.5	2	1.6	1.3	1
WKSG 166 FS	3	2.5	2	1.6	1.3	1

Load



Load diagram, wide span cable tray, type WKSG 160

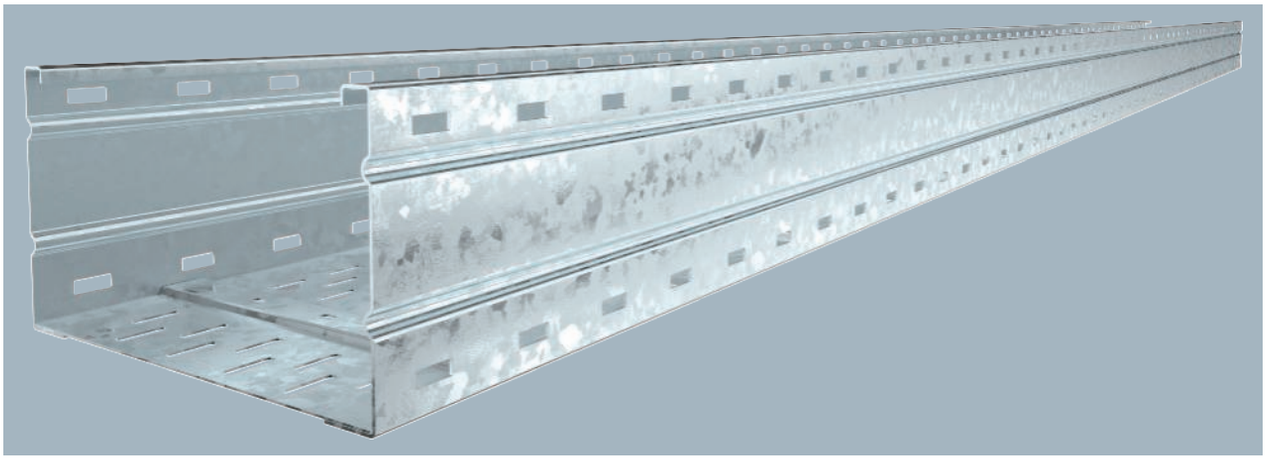
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Wide span cable tray WKSG 160

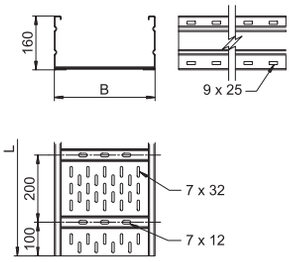


Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

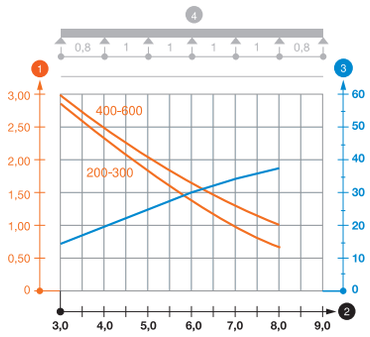
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 FT	200	2.00	6	920.450	**6098550**
WKSG 163 FT	300	2.00	6	1,058.370	**6098554**
WKSG 164 FT	400	2.00	6	1,170.520	**6098558**
WKSG 165 FT	500	2.00	6	1,285.770	**6098562**
WKSG 166 FT	600	2.00	6	1,401.040	**6098566**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 162 FT	6000	200	302
WKSG 163 FT	6000	300	455
WKSG 164 FT	6000	400	608
WKSG 165 FT	6000	500	761
WKSG 166 FT	6000	600	914

Load



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FT	1.8	1.4	1	0.7
WKSG 163 FT	1.8	1.4	1	0.7
WKSG 164 FT	2	1.6	1.3	1
WKSG 165 FT	2	1.6	1.3	1
WKSG 166 FT	2	1.6	1.3	1

Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

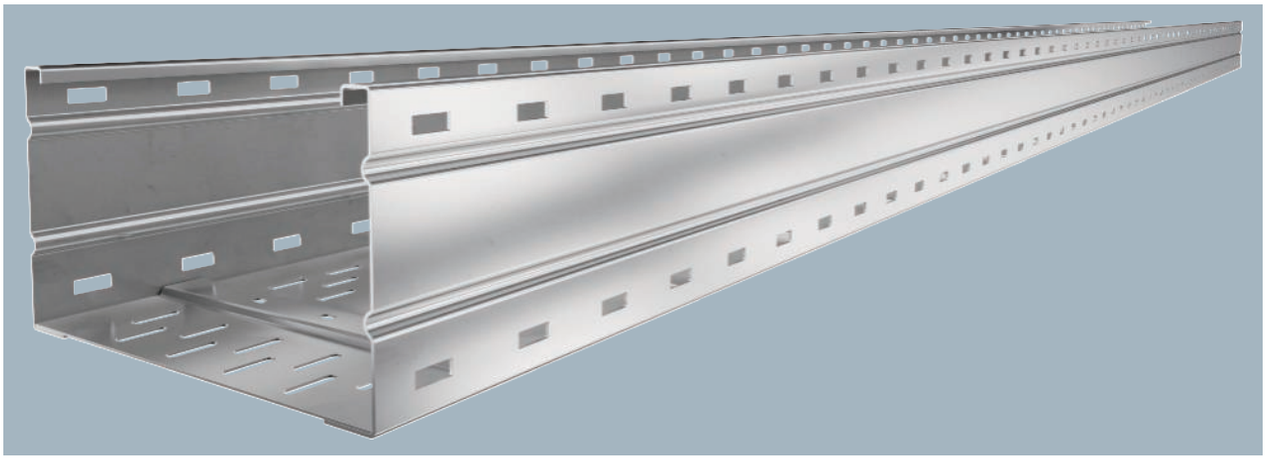
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 160

Wide span cable tray WKSG 160

VA 2B



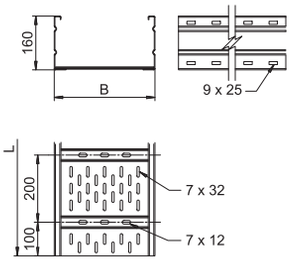
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 A2	200	2.00	6	895.067	**6098571**
WKSG 163 A2	300	2.00	6	1,003.167	**6098573**
WKSG 164 A2	400	2.00	6	1,108.333	**6098575**
WKSG 165 A2	500	2.00	6	1,216.417	**6098577**
WKSG 166 A2	600	2.00	6	1,324.170	**6098579**

Straight connectors of type WRVL 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

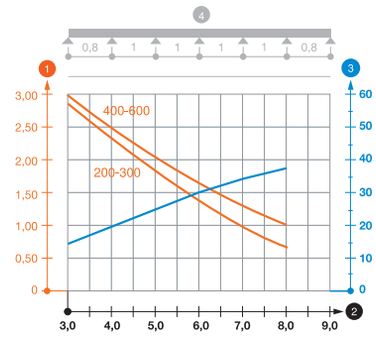
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 162 A2	6000	200	302
WKSG 163 A2	6000	300	455
WKSG 164 A2	6000	400	608
WKSG 165 A2	6000	500	761
WKSG 166 A2	6000	600	914

Dimensions



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 A2	3	2.5	2	1.6	1.3	1
WKSG 165 A2	3	2.5	2	1.6	1.3	1
WKSG 166 A2	3	2.5	2	1.6	1.3	1

Load



Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

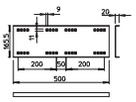
— Load curve with cable tray/ladder width in mm

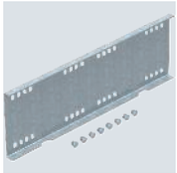
— Strut bend curve according to support width

St FS FT

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	**6227708**
WRVL 160 FT	160	2	218.000	**6227716**





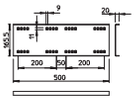
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

VA VA 2B

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 A2	160	2	218.000	**6227724**
WRVL 160 A4	160	2	250.000	**6227730**



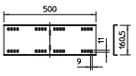
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

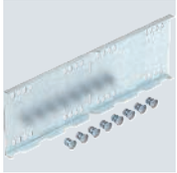
Including appropriate bolts, washers and nuts.

St FS

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	**6227832**





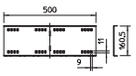
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	**6227836**



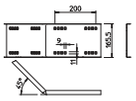
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, horizontal, inner rail 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	**6227902**
WRWV 160 I FT	160	1	234.000	**6227910**



Including appropriate bolts, washers and nuts.

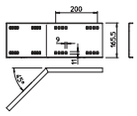
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 160

45° angle connector, external 160

St FS FT

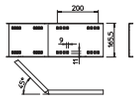


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	**6227856**
WRWV 160 A FT	160	1	234.000	**6227864**

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, internal 160

VA 2B

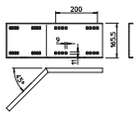


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I A2	160	1	239.000	**6227914**

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, external 160

VA 2B

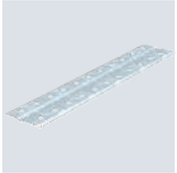


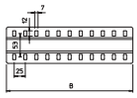
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A A2	160	1	234.000	**6227868**

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

Joint plate

St FS DD





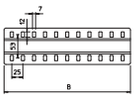
Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	**7070205**
SSLB 150 FS	150	20	14.000	**7070209**
SSLB 200 FS	200	20	18.500	**7070213**
SSLB 300 FS	300	20	29.200	**7070217**
SSLB 400 FS	400	20	38.200	**7070221**
SSLB 500 FS	500	20	49.000	**7070225**
SSLB 550 FS	550	20	53.500	**7070229**
SSLB 600 FS	600	20	58.000	**7070233**
SSLB 100 DD	100	20	7.700	**7070306**
SSLB 150 DD	150	20	14.000	**7070310**
SSLB 200 DD	200	20	18.500	**7070314**
SSLB 300 DD	300	20	29.200	**7070318**
SSLB 400 DD	400	20	38.200	**7070322**
SSLB 500 DD	500	20	49.000	**7070326**
SSLB 550 DD	550	20	53.500	**7070330**
SSLB 600 DD	600	20	58.000	**7070334**

Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

VA VA 2B

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 A2	100	20	7.700	**7070353**
SSLB 200 A2	200	20	18.500	**7070361**
SSLB 300 A2	300	20	29.200	**7070365**
SSLB 400 A2	400	20	38.200	**7070369**
SSLB 500 A2	500	20	49.000	**7070373**
SSLB 600 A2	600	20	58.000	**7070381**
SSLB 100 A4	100	20	7.700	**7070390**
SSLB 200 A4	200	20	18.500	**7070392**
SSLB 300 A4	300	20	29.200	**7070394**
SSLB 400 A4	400	20	38.200	**7070396**
SSLB 500 A4	500	20	49.000	**7070398**
SSLB 600 A4	600	20	58.000	**7070400**

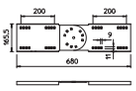


Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	**6227953**
WRGV 160 FT	160	2	316.700	**6227961**

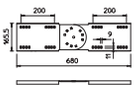


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

VA 2B

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 A2	160	2	300.200	**6227965**

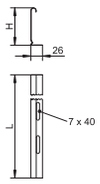


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

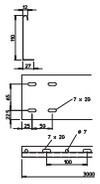


Separating retainer for separation of cables of different voltages or functions.

VA 2B

Barrier strip 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 A2	110	0.75	3000	3	90.684	**6062255**



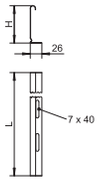
Barrier strip for separation of cables of different voltages or functions.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wide span cable tray, side height 160

Separating retainer 135

St FS DD

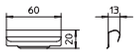


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	**6062132**
TSG 135 DD	135	0.75	3000	3	100.000	**6062338**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

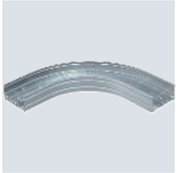


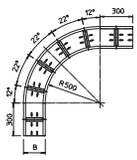
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

90° bend 160

St FS FT



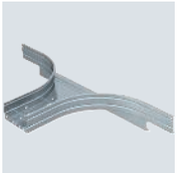


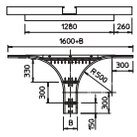
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 162 FS	160	200	1	1,390.000	**6098703**
WRB 90 163 FS	160	300	1	1,664.000	**6098707**
WRB 90 164 FS	160	400	1	1,920.000	**6098711**
WRB 90 165 FS	160	500	1	2,214.000	**6098715**
WRB 90 166 FS	160	600	1	2,526.000	**6098719**
WRB 90 162 FT	160	200	1	1,460.000	**6098730**
WRB 90 163 FT	160	300	1	1,751.000	**6098734**
WRB 90 164 FT	160	400	1	2,023.000	**6098738**
WRB 90 165 FT	160	500	1	2,335.000	**6098742**
WRB 90 166 FT	160	600	1	2,667.000	**6098746**

90° bend, horizontal, for all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

Add-on tee 160

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 162 FS	160	200	1	1,783.000	**6098800**
WRAA 163 FS	160	300	1	1,938.000	**6098804**
WRAA 164 FS	160	400	1	2,075.000	**6098808**
WRAA 165 FS	160	500	1	2,240.000	**6098812**
WRAA 166 FS	160	600	1	2,350.000	**6098816**
WRAA 162 FT	160	200	1	1,865.000	**6098827**
WRAA 163 FT	160	300	1	2,026.000	**6098831**
WRAA 164 FT	160	400	1	2,170.000	**6098835**
WRAA 165 FT	160	500	1	2,316.000	**6098839**
WRAA 166 FT	160	600	1	2,460.000	**6098843**

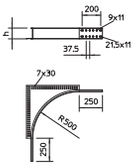
Add-on tee for horizontal use. For all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

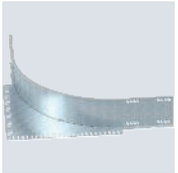
St FS FT

Corner extension piece 160

Type	Dim. h mm		Pack Piece	Weight kg/100 pc.	Item no.
WEAS 160 FS	160		1	632.000	**6098860**
WEAS 160 FT	160		1	669.000	**6098864**

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.



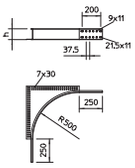


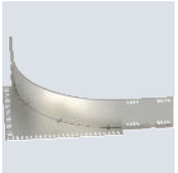
VA 2B

Corner extension piece 160

Type	Dim. h mm		Pack Piece	Weight kg/100 pc.	Item no.
WEAS 160 A2	160		1	702.000	**6098868**

Corner extension piece for wide span cable trays and ladders with a side height of 160 mm.

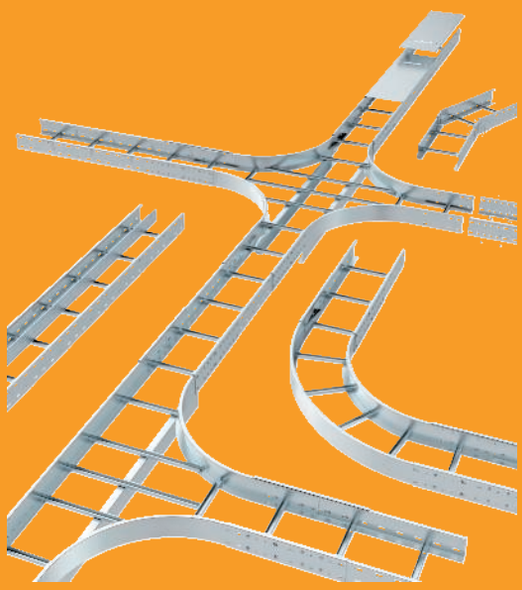




Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

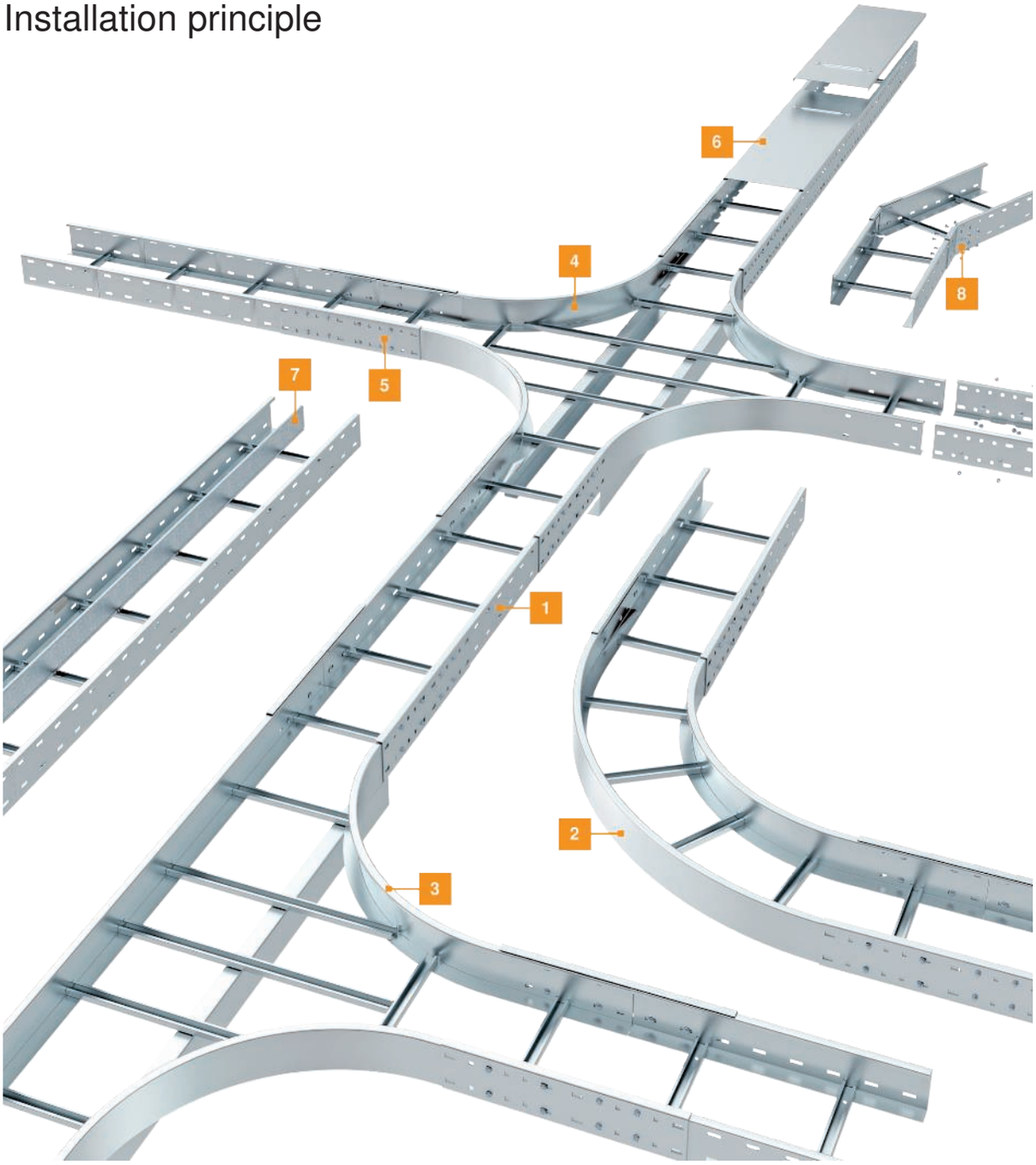
Wide span cable ladder systems

When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.



Wide span cable ladder systems

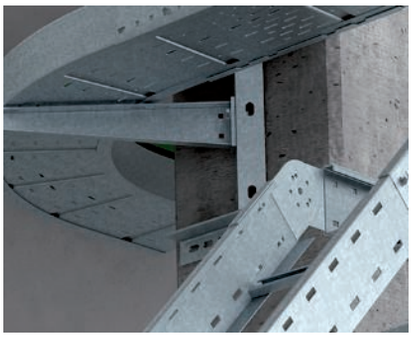
Installation principle



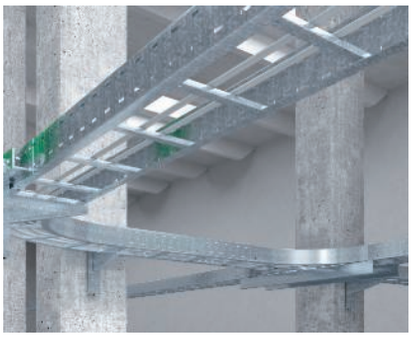
1	Wide span cable ladders
2	90° bend
3	T branch piece
4	Cross-over
5	Straight connector
6	Cover with turn buckle
7	Barrier strip
8	Adjustable connector

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

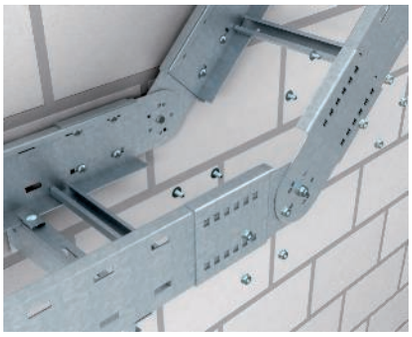


Wide span fittings application
Mounting examples for horizontal and vertical changes of direction for wide span systems.



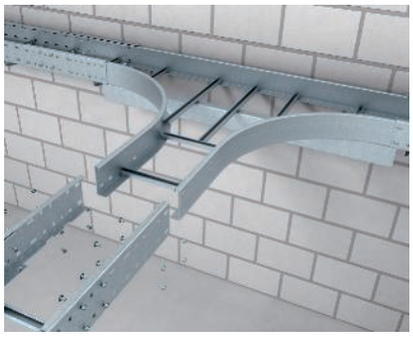
Girder clamping application
Mounting of a wide span system clamped to steel girders.

Horizontal wide span angle connection
Horizontal angle connection of wide span cable ladders with angle connectors, type WRWVK.



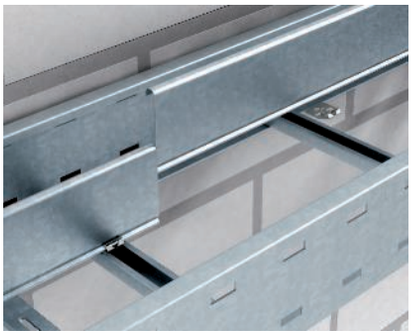
Vertical wide span adjustable connection
Vertical angle connection of wide span cable ladders with adjustable connectors, type WRGV.

Installation of 90° bend
Bend in combination with wide span cable ladder. The bend is connected to the wide span cable ladder using external connectors.

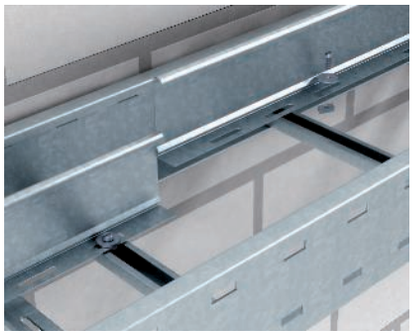


Installation of tee
Tee in conjunction with wide span cable ladder. The tee is connected to the wide span cable ladder using external connectors.

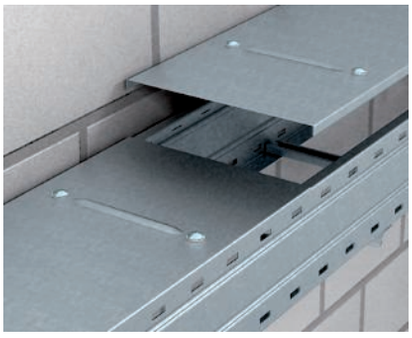
Installation of cross-over
Cross-over in combination with wide span cable ladder. The cross-over is connected to the wide span cable ladder using external connectors.



Screwless barrier strip fastening
Screwless fastening a barrier strip in wide span cable trays and cable ladders with clamping piece, type KS KL.



Screwed barrier strip fastening
Barrier strip mounting in wide span cable ladders. Fasten using slide nuts and hexagonal bolts.



Cover mounting
Installation of covers with turn-buckles.

St FS

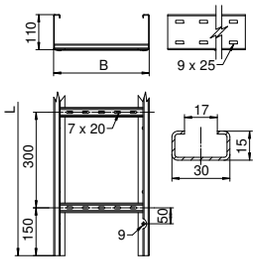
Wide span cable ladder WKLG 110

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

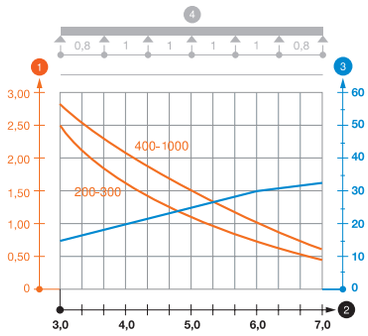
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FS	200	2	6	560.400	**6311008**
WKLG 1130 FS	300	2	6	583.000	**6311012**
WKLG 1140 FS	400	2	6	605.800	**6311016**
WKLG 1150 FS	500	2	6	628.833	**6311020**
WKLG 1160 FS	600	2	6	652.000	**6311024**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 FS	6000	200	186
WKLG 1130 FS	6000	300	281
WKLG 1140 FS	6000	400	376
WKLG 1150 FS	6000	500	471
WKLG 1160 FS	6000	600	566

Load



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FS	1.6	1.1	0.8	0.4
WKLG 1130 FS	1.6	1.1	0.8	0.4
WKLG 1140 FS	2.1	1.5	1	0.7
WKLG 1150 FS	2.1	1.5	1	0.7
WKLG 1160 FS	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

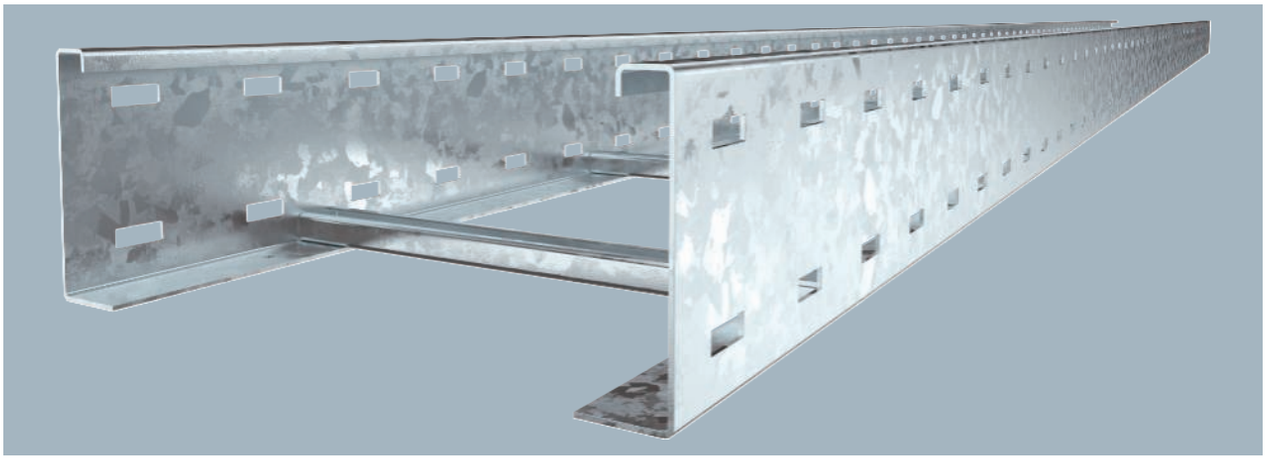
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

WKLG wide span cable ladder system, side height 110

St FT

Wide span cable ladder WKLG 110



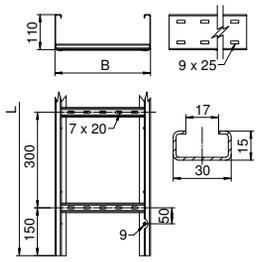
Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FT	200	2	6	589.000	**6311059**
WKLG 1130 FT	300	2	6	612.800	**6311063**
WKLG 1140 FT	400	2	6	637.166	**6311067**
WKLG 1150 FT	500	2	6	662.066	**6311071**
WKLG 1160 FT	600	2	6	686.600	**6311075**

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

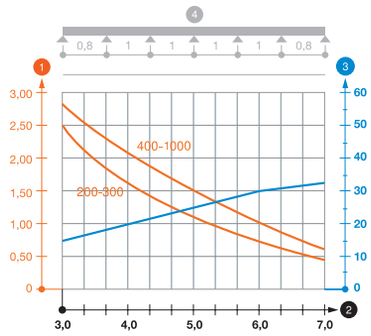
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 FT	6000	200	186
WKLG 1130 FT	6000	300	281
WKLG 1140 FT	6000	400	376
WKLG 1150 FT	6000	500	471
WKLG 1160 FT	6000	600	566

Dimensions



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FT	1.6	1.1	0.8	0.4
WKLG 1130 FT	1.6	1.1	0.8	0.4
WKLG 1140 FT	2.1	1.5	1	0.7
WKLG 1150 FT	2.1	1.5	1	0.7
WKLG 1160 FT	2.1	1.5	1	0.7

Load



Load diagram, wide span cable ladder, type WKLG 110

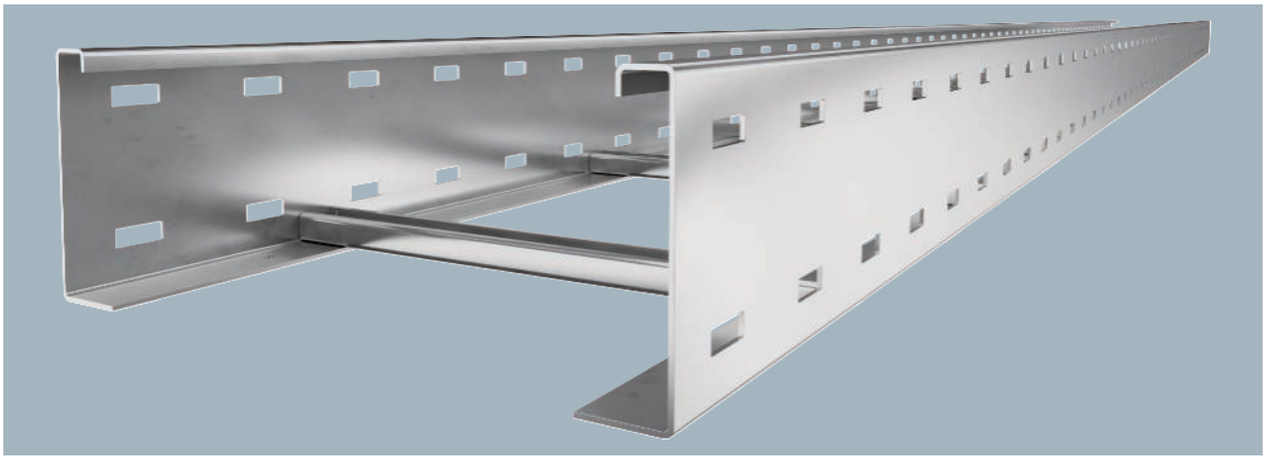
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Wide span cable ladder WKLG 110

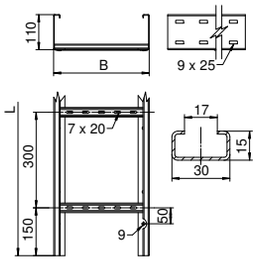


Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

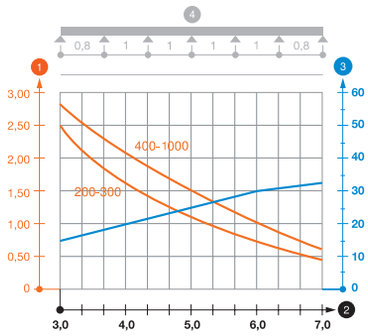
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 A2	200	2	6	560.400	**6311202**
WKLG 1130 A2	300	2	6	582.800	**6311206**
WKLG 1140 A2	400	2	6	605.800	**6311210**
WKLG 1150 A2	500	2	6	628.866	**6311214**
WKLG 1160 A2	600	2	6	652.000	**6311218**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 A2	6000	200	186
WKLG 1130 A2	6000	300	281
WKLG 1140 A2	6000	400	376
WKLG 1150 A2	6000	500	471
WKLG 1160 A2	6000	600	566

Load



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A2	1.6	1.1	0.8	0.4
WKLG 1130 A2	1.6	1.1	0.8	0.4
WKLG 1140 A2	2.1	1.5	1	0.7
WKLG 1150 A2	2.1	1.5	1	0.7
WKLG 1160 A2	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110.

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

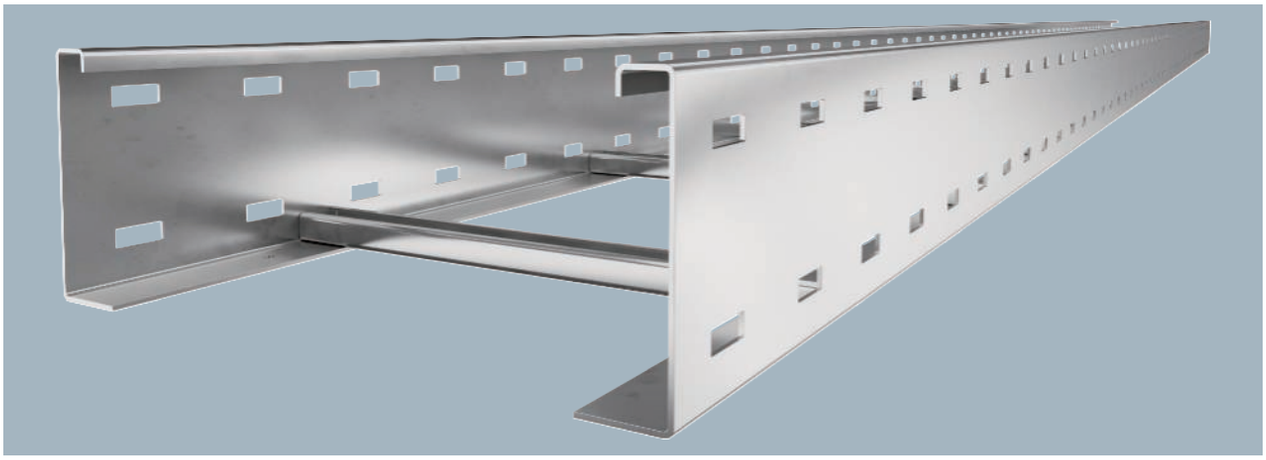
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

WKLG wide span cable ladder system, side height 110

Wide span cable ladder WKLG 110

VA 2B



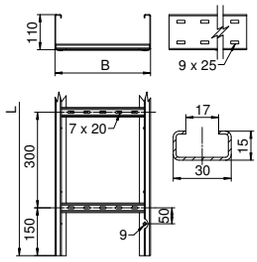
Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 A4	200	2	6	560.400	**6311225**
WKLG 1130 A4	300	2	6	582.800	**6311227**
WKLG 1140 A4	400	2	6	605.800	**6311229**
WKLG 1150 A4	500	2	6	628.866	**6311231**
WKLG 1160 A4	600	2	6	652.000	**6311233**

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

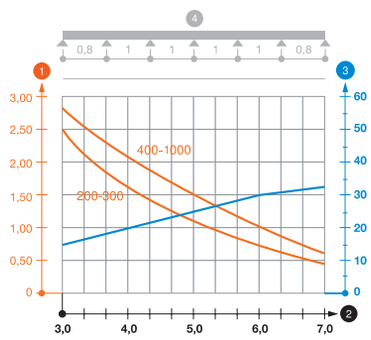
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 A4	6000	200	186
WKLG 1130 A4	6000	300	281
WKLG 1140 A4	6000	400	376
WKLG 1150 A4	6000	500	471
WKLG 1160 A4	6000	600	566

Dimensions



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A4	1.6	1.1	0.8	0.4
WKLG 1130 A4	1.6	1.1	0.8	0.4
WKLG 1140 A4	1.6	1.1	0.8	0.4
WKLG 1150 A4	1.6	1.1	0.8	0.4
WKLG 1160 A4	1.6	1.1	0.8	0.4

Load



Load diagram, wide span cable ladder, type WKLG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

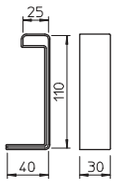
— Strut bend curve according to support width

PVC

End cap 110

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	6310398

End cap to cover the ends of wide span cable ladders.



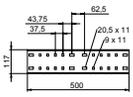
St FS FT

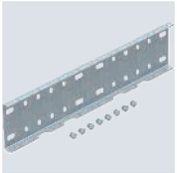
Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	6091164
WRVL 110 FT	110	2	157.800	6091180

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.





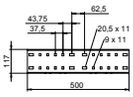
VA VA 2B

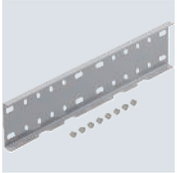
Straight connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	6091229
WRVL 110 A4	110	2	154.400	6091234

Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.





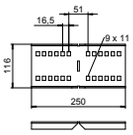
St FS

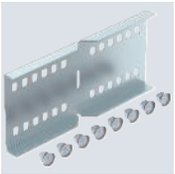
Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	6091377

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.





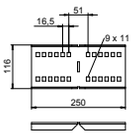
VA VA 2B

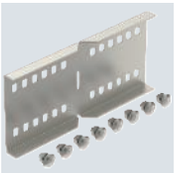
Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	6091393
WRWVK 110 A4	110	2	82.000	6091397

Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.





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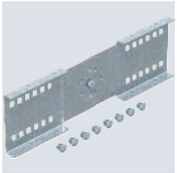
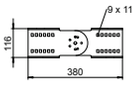
WKLG wide span cable ladder system, side height 110

Adjustable connector 110

St FS FT



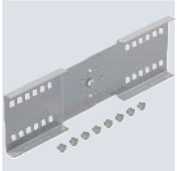


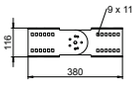
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	**6091318**
WRGV 110 FT	110	2	119.000	**6091334**

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

Adjustable connector 110

VA VA 2B



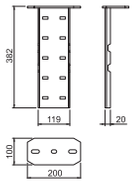


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	**6091338**
WRGV 110 A4	110	2	120.000	**6091343**

Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

Base plate for wide span systems

St FT

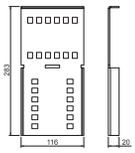


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WFP 110 FT	110	1	266.200	**6232500**

Including appropriate bolts, washers and nuts.
Base plate for accepting wide span systems, for example, for vertical routing of wide span cable trays.

Angle connector, vertical 110

St FS

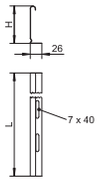


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVV 110 FS	110	2	63.200	**6091379**

Including appropriate bolts, washers and nuts.
Angle connector for connecting vertical and horizontal wide span systems.

Separating retainer 85

St FS DD



Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

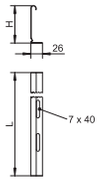
Separating retainer for separation of cables of different voltages or functions.

VA 2B

Barrier strip 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	6062173

Barrier strip for separation of cables of different voltages or functions.

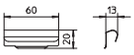


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

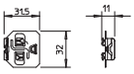


VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

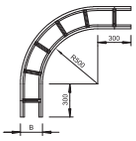


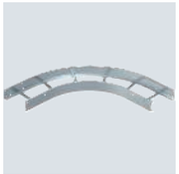
St FS FT

90° bend 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 FS	200	2	1	881.800	6312330
WLB 90 113 FS	300	2	1	971.000	6312349
WLB 90 114 FS	400	2	1	1,052.100	6312357
WLB 90 115 FS	500	2	1	1,151.300	6312365
WLB 90 116 FS	600	2	1	1,330.000	6312373
WLB 90 112 FT	200	2	1	926.800	6312438
WLB 90 113 FT	300	2	1	1,016.000	6312446
WLB 90 114 FT	400	2	1	1,107.300	6312454
WLB 90 115 FT	500	2	1	1,217.800	6312462
WLB 90 116 FT	600	2	1	1,370.000	6312470

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.





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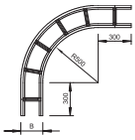
WKLG wide span cable ladder system, side height 110

90° bend 110

VA 2B

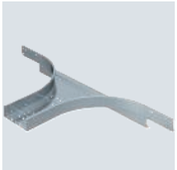


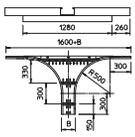
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 A4	200	2	1	881.800	**6312550**
WLB 90 113 A4	300	2	1	1,030.000	**6312552**
WLB 90 114 A4	400	2	1	1,052.100	**6312554**
WLB 90 115 A4	500	2	1	1,151.300	**6312556**
WLB 90 116 A4	600	2	1	1,330.000	**6312558**

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

Add-on tee 110

St FS FT



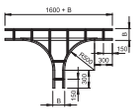


Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	**6098405**
WRAA 130 FS	110	300	1	1,605.000	**6098409**
WRAA 140 FS	110	400	1	1,735.000	**6098413**
WRAA 150 FS	110	500	1	1,865.000	**6098417**
WRAA 160 FS	110	600	1	1,995.000	**6098421**
WRAA 120 FT	110	200	1	1,545.000	**6098445**
WRAA 130 FT	110	300	1	1,680.000	**6098449**
WRAA 140 FT	110	400	1	1,820.000	**6098453**
WRAA 150 FT	110	500	1	1,955.000	**6098457**
WRAA 160 FT	110	600	1	2,080.000	**6098461**

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

T branch piece 110

St FS FT

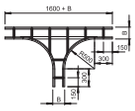


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 FS	200	2	1	1,760.000	**6312632**
WLT 1130 FS	300	2	1	1,927.000	**6312640**
WLT 1140 FS	400	2	1	2,050.000	**6312659**
WLT 1150 FS	500	2	1	2,172.000	**6312667**
WLT 1160 FS	600	2	1	2,340.000	**6312675**
WLT 1120 FT	200	2	1	1,842.000	**6312713**
WLT 1130 FT	300	2	1	2,017.000	**6312721**
WLT 1140 FT	400	2	1	2,147.000	**6312748**
WLT 1150 FT	500	2	1	2,275.000	**6312756**
WLT 1160 FT	600	2	1	2,404.000	**6312764**

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

T branch piece 110

VA 2B

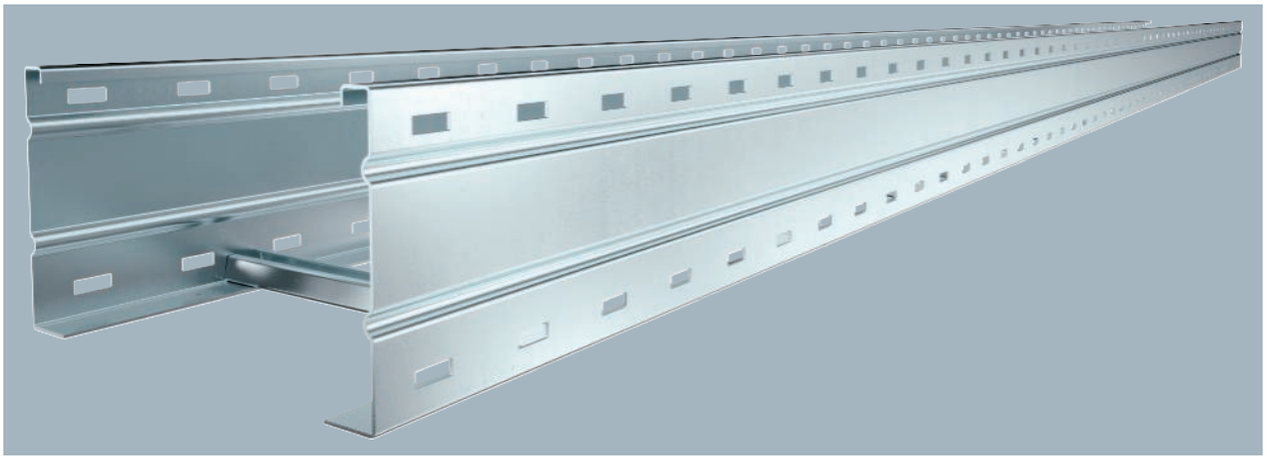


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 A4	200	2	1	1,750.000	**6312815**
WLT 1130 A4	300	2	1	1,870.000	**6312817**
WLT 1140 A4	400	2	1	1,990.000	**6312819**
WLT 1150 A4	500	2	1	2,147.000	**6312821**
WLT 1160 A4	600	2	1	2,340.000	**6312823**

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

St FS

Wide span cable ladder WKLG 160

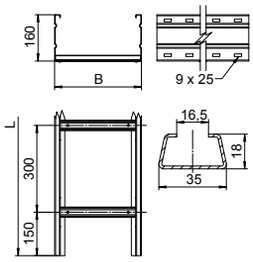


Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

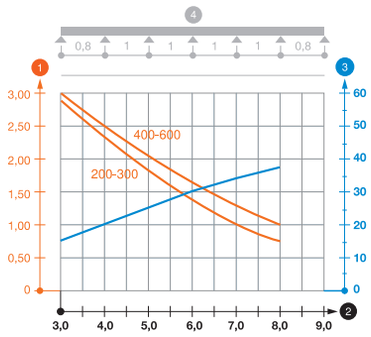
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FS	200	2	6	737.334	**6227023**
WKLG 1630 FS	300	2	6	767.334	**6227031**
WKLG 1640 FS	400	2	6	797.834	**6227058**
WKLG 1650 FS	500	2	6	828.500	**6227066**
WKLG 1660 FS	600	2	6	859.334	**6227074**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1620 FS	6000	200	282
WKLG 1630 FS	6000	300	427
WKLG 1640 FS	6000	400	572
WKLG 1650 FS	6000	500	717
WKLG 1660 FS	6000	600	857

Load



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FS	1.8	1.4	1	0.7
WKLG 1630 FS	1.8	1.4	1	0.7
WKLG 1640 FS	2	1.6	1.3	1
WKLG 1650 FS	2	1.6	1.3	1
WKLG 1660 FS	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

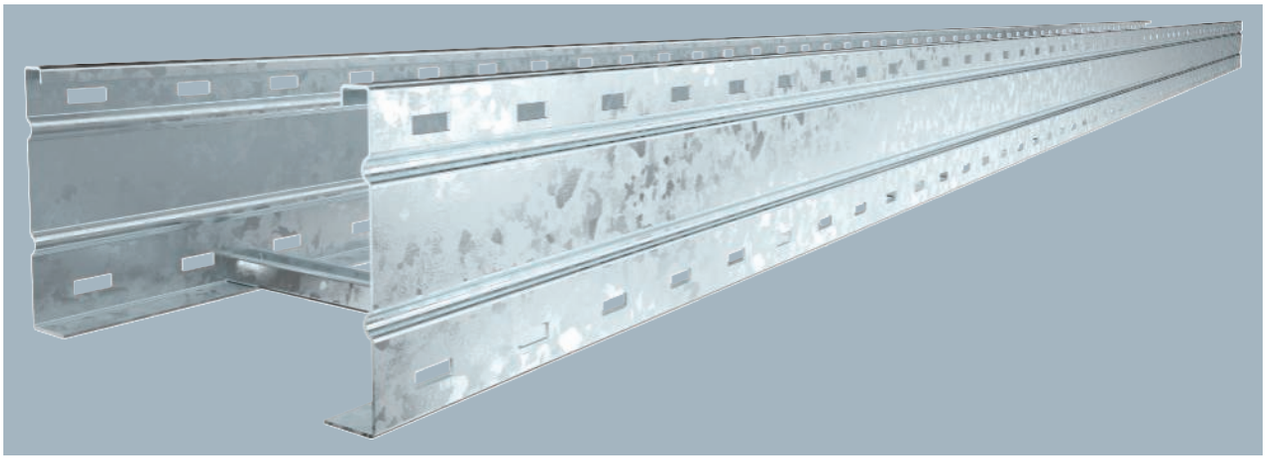
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

WKLG wide span cable ladder system, side height 160

St FT

Wide span cable ladder WKLG 160



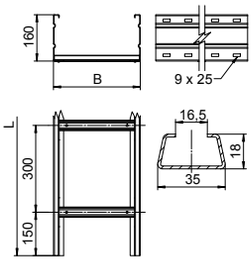
Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FT	200	2	6	770.667	**6227120**
WKLG 1630 FT	300	2	6	802.500	**6227139**
WKLG 1640 FT	400	2	6	835.000	**6227147**
WKLG 1650 FT	500	2	6	867.334	**6227155**
WKLG 1660 FT	600	2	6	900.000	**6227163**

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

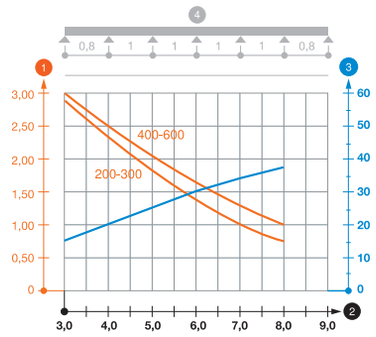
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1620 FT	6000	200	282
WKLG 1630 FT	6000	300	427
WKLG 1640 FT	6000	400	572
WKLG 1650 FT	6000	500	717
WKLG 1660 FT	6000	600	857

Dimensions



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FT	1.8	1.4	1	0.7
WKLG 1630 FT	1.8	1.4	1	0.7
WKLG 1640 FT	2	1.6	1.3	1
WKLG 1650 FT	2	1.6	1.3	1
WKLG 1660 FT	2	1.6	1.3	1

Load



Load diagram, wide span cable ladder, type WKLG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

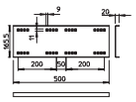
— Load curve with cable tray/ladder width in mm

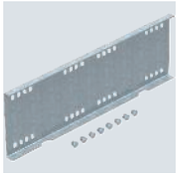
— Strut bend curve according to support width

St FS FT

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	**6227708**
WRVL 160 FT	160	2	218.000	**6227716**





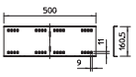
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

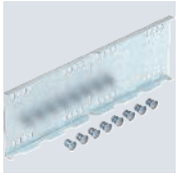
Including appropriate bolts, washers and nuts.

St FS

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	**6227832**





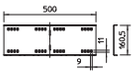
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

VA 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	**6227836**



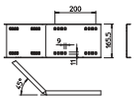
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, horizontal, inner rail 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	**6227902**
WRWV 160 I FT	160	1	234.000	**6227910**



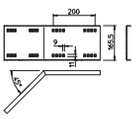
Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, external 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	**6227856**
WRWV 160 A FT	160	1	234.000	**6227864**



Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

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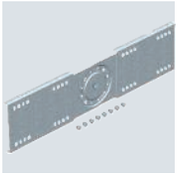
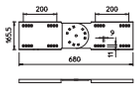
WKLG wide span cable ladder system, side height 160

Adjustable connector 160

St FS FT



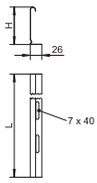


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	**6227953**
WRGV 160 FT	160	2	316.700	**6227961**

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

Separating retainer 110

St FS DD

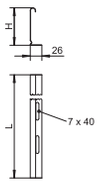


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 135

St FS DD

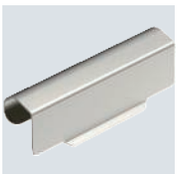


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	**6062132**
TSG 135 DD	135	0.75	3000	3	100.000	**6062338**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

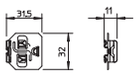


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B



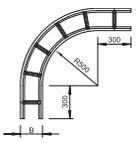
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

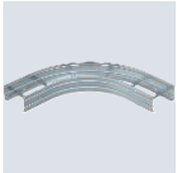
Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FS FT

90° bend 160

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 162 FS	200	2	1	1,145.000	6229336
WLB 90 163 FS	300	2	1	1,250.000	6229344
WLB 90 164 FS	400	2	1	1,355.000	6229352
WLB 90 165 FS	500	2	1	1,504.000	6229360
WLB 90 166 FS	600	2	1	1,618.000	6229379
WLB 90 162 FT	200	2	1	1,200.000	6229425
WLB 90 163 FT	300	2	1	1,310.000	6229433
WLB 90 164 FT	400	2	1	1,420.000	6229441
WLB 90 165 FT	500	2	1	1,576.000	6229468
WLB 90 166 FT	600	2	1	1,996.000	6229476



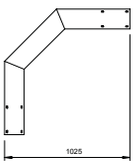


For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 160 mm side height.

St FT

90° vertical bend, falling 160

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLBF 90 162 FT	200	2	1	1,275.000	6230725
WLBF 90 163 FT	300	2	1	1,335.000	6230733
WLBF 90 164 FT	400	2	1	1,385.000	6230741
WLBF 90 165 FT	500	2	1	1,445.000	6230768
WLBF 90 166 FT	600	2	1	1,495.000	6230776

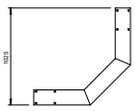


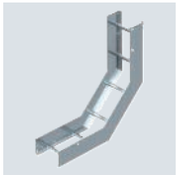
For further stabilisation, additional supports should be planned for the area of the fittings.
90° vertical bend, for all wide span cable ladders of 160 mm side height.

St FT

90° vertical bend, rising 160

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLBS 90 162 FT	200	2	1	1,275.000	6230423
WLBS 90 163 FT	300	2	1	1,335.000	6230431
WLBS 90 164 FT	400	2	1	1,385.000	6230458
WLBS 90 165 FT	500	2	1	1,445.000	6230466
WLBS 90 166 FT	600	2	1	1,495.000	6230474



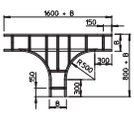


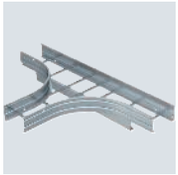
For further stabilisation, additional supports should be planned for the area of the fittings.
90° vertical bend, for all wide span cable ladders of 160 mm side height.

St FT

T branch piece 160

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1620 FT	200	2	1	2,345.000	6229727
WLT 1630 FT	300	2	1	2,565.000	6229735
WLT 1640 FT	400	2	1	2,725.000	6229743
WLT 1650 FT	500	2	1	2,885.000	6229751
WLT 1660 FT	600	2	1	3,040.000	6229778





For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 160 mm side height.

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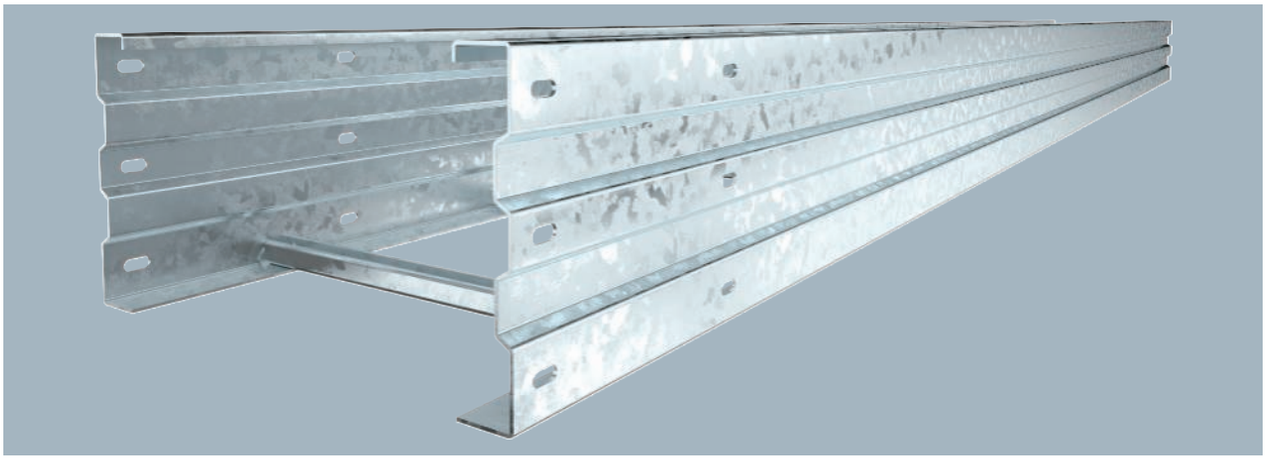
WKLG wide span cable ladder system, side height 200

St FT

WKL 200 wide span cable ladder



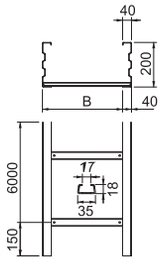
Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
WKL 2020 FT	200	2.5	6	1,320.000	**6232102**
WKL 2030 FT	300	2.5	6	1,358.334	**6232104**
WKL 2040 FT	400	2.5	6	1,398.340	**6232106**
WKL 2050 FT	500	2.5	6	1,440.000	**6232108**
WKL 2060 FT	600	2.5	6	1,480.000	**6232110**

Straight connectors of type WRVL 200 should be ordered separately and in the appropriate quantity.

WKL 200 = Wide span cable ladder with 200 mm side height.

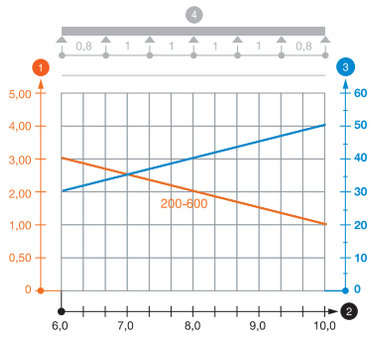
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKL 2020 FT	6000	200	344
WKL 2030 FT	6000	300	524
WKL 2040 FT	6000	400	704
WKL 2050 FT	6000	500	884
WKL 2060 FT	6000	600	1064

Dimensions



	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m	9.0 m kN/m	10.0 m kN/m
WKL 2020 FT	3	2.5	2	1.4	1
WKL 2030 FT	3	2.5	2	1.4	1
WKL 2040 FT	3	2.5	2	1.4	1
WKL 2050 FT	3	2.5	2	1.4	1
WKL 2060 FT	3	2.5	2	1.4	1

Load



Load diagram, wide span cable ladder, type WKL 200

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

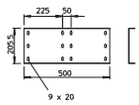
— Strut bend curve according to support width

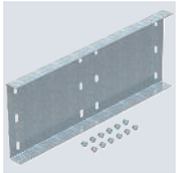
St FT

Straight connector 200

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRV 200 FT	200	4	320.000	**6232507**

Straight connector for connections of wide span cable ladders and fittings with a side height of 200 mm.
Including appropriate bolts, washers and nuts.



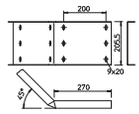


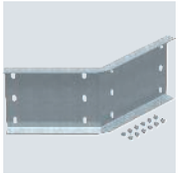
St FT

45° angle connector, internal 200

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 I FT	200	4	322.000	**6232612**

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.



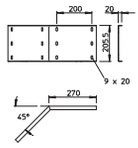


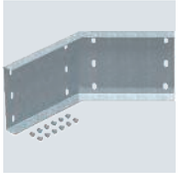
St FT

45° angle connector, external 200

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 A FT	200	4	320.000	**6232604**

Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable ladders of 200 mm side height.



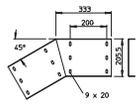


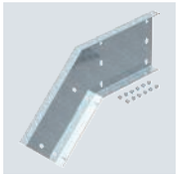
St FT

45° angle connector, vertical 200

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 200 V FT	200	4	343.100	**6232663**

Including appropriate bolts, washers and nuts.
45° angle connector, vertical, for wide span cable ladders of 200 mm side height.



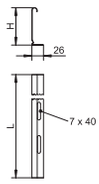


St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

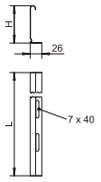


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

WKLG wide span cable ladder system, side height 200

Separating retainer 135

St FS DD

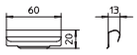


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	**6062132**
TSG 135 DD	135	0.75	3000	3	100.000	**6062338**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

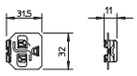


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B

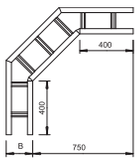


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

90° bend 200

St FT



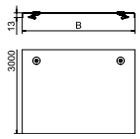
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 2020 FT	200	2.5	1	1,881.000	**6233422**
WLB 90 2030 FT	300	2.5	1	2,060.000	**6233430**
WLB 90 2040 FT	400	2.5	1	2,241.000	**6233449**
WLB 90 2050 FT	500	2.5	1	2,421.000	**6233457**
WLB 90 2060 FT	600	2.5	1	2,600.000	**6233465**

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 200 mm side height.

St FS DD

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 FS	200	1.00	3000	3	181.340	**6227422**
WDRL 1116 30 FS	300	1.00	3000	3	259.670	**6227430**
WDRL 1116 40 FS	400	1.00	3000	3	516.670	**6227449**
WDRL 1116 50 FS	500	1.50	3000	3	623.000	**6227457**
WDRL 1116 60 FS	600	1.50	3000	3	741.000	**6227465**
WDRL 1116 20 DD	200	1.00	3000	3	185.000	**6227600**
WDRL 1116 30 DD	300	1.00	3000	3	263.340	**6227604**
WDRL 1116 40 DD	400	1.00	3000	3	505.000	**6227608**
WDRL 1116 50 DD	500	1.50	3000	3	626.670	**6227612**
WDRL 1116 60 DD	600	1.50	3000	3	744.333	**6227616**



Cover with turn buckles for wide span cable trays and wide span cable ladders with side heights of 110 and 160 mm.

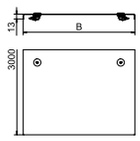
Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

VA 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 A2	200	1.50	3000	3	186.670	**6227360**
WDRL 1116 30 A2	300	1.50	3000	3	265.340	**6227362**
WDRL 1116 40 A2	400	1.50	3000	3	513.000	**6227364**
WDRL 1116 50 A2	500	1.50	3000	3	629.670	**6227366**
WDRL 1116 60 A2	600	1.50	3000	3	747.670	**6227368**



Cover for wide span trays and ladders with the side height 110 and 160 mm.

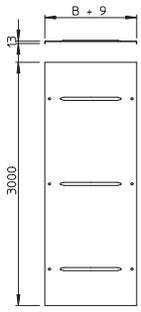
Take appropriate constructive protection measures if there are high wind speeds.

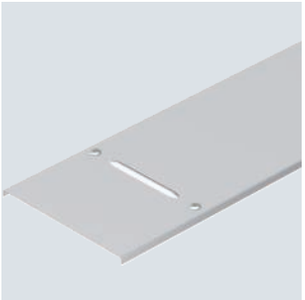
Transverse bead from 500 mm width.

VA 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 A4	200	1.50	3000	3	186.670	**6227361**
WDRL 1116 30 A4	300	1.50	3000	3	265.334	**6227363**
WDRL 1116 40 A4	400	1.50	3000	3	513.000	**6227365**
WDRL 1116 50 A4	500	1.50	3000	3	629.670	**6227367**
WDRL 1116 60 A4	600	1.50	3000	3	747.667	**6227369**





Cover for wide span trays and ladders with the side height 110 and 160 mm.

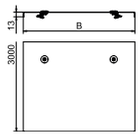
Cross beading from 500 mm width.

If a turn buckle is installed at a later time, the following dimensions of the drill hole arrangement should be maintained.

St DD

Cover incl. turn buckles

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WKLD 2020 DD	200	1.50	3000	3	188.000	**6232402**
WKLD 2030 DD	300	1.50	3000	3	266.670	**6232404**
WKLD 2040 DD	400	1.50	3000	3	427.670	**6232406**
WKLD 2050 DD	500	1.50	3000	3	527.340	**6232408**
WKLD 2060 DD	600	1.50	3000	3	673.340	**6232410**



Cover for wide span ladders with the side height of 200 mm.

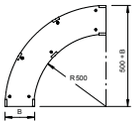
Take appropriate constructive protection measures if there are high wind speeds.

Cross-beading from 500 mm width.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for 90° bend WDBRL

St FS DD



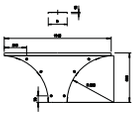
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WDBRL 90 20 FS	200	1.00	1	164.900	**6231462**
WDBRL 90 30 FS	300	1.00	1	263.000	**6231470**
WDBRL 90 40 FS	400	1.00	1	449.000	**6231489**
WDBRL 90 50 FS	500	1.00	1	595.000	**6231497**
WDBRL 90 60 FS	600	1.00	1	758.000	**6231500**
WDBRL 90 20 DD	200	1.00	1	165.100	**6231527**
WDBRL 90 30 DD	300	1.00	1	270.000	**6231535**
WDBRL 90 40 DD	400	1.00	1	548.000	**6231543**
WDBRL 90 50 DD	500	1.00	1	724.000	**6231551**
WDBRL 90 60 DD	600	1.00	1	945.000	**6231578**

As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.

Cover for wide span 90° bend with pre-mounted turn buckles.

Cover for add-on tee WAAD

St FS DD

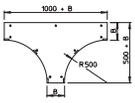


Type	Width mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WAAD 200 FS	200	1.50	1	206.100	**6231900**
WAAD 300 FS	300	1.50	1	247.300	**6231904**
WAAD 400 FS	400	1.50	1	427.100	**6231908**
WAAD 500 FS	500	1.50	1	489.600	**6231912**
WAAD 600 FS	600	1.50	1	552.100	**6231916**
WAAD 200 DD	200	1.50	1	206.100	**6231922**
WAAD 300 DD	300	1.50	1	247.300	**6231926**
WAAD 400 DD	400	1.50	1	427.100	**6231930**
WAAD 500 DD	500	1.50	1	489.600	**6231934**
WAAD 600 DD	600	1.50	1	552.100	**6231938**

Cover for wide span add-on tee with pre-mounted turn buckles.

Cover for T WDTRL T branch piece

St DD



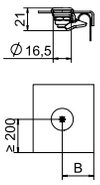
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WDTRL 200 DD	200	1.00	1	400.000	**6231667**
WDTRL 300 DD	300	1.00	1	550.000	**6231675**
WDTRL 400 DD	400	1.00	1	1,085.000	**6231683**
WDTRL 500 DD	500	1.25	1	1,419.200	**6231691**
WDTRL 600 DD	600	1.25	1	1,729.500	**6231705**

As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.

Cover for wide span tee with pre-mounted turn buckles.

Turn buckle for screwing

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S A2	20	3.260	**6065016**

Turn buckle for additional mounting or mounting at a later date.

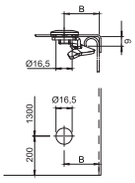
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FT

Turn buckle for riveting

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT	20	2.187	6065012



Turn buckle for additional installation or installation at a later date.

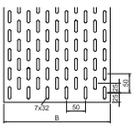
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

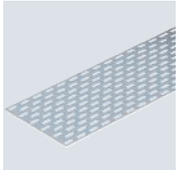
Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FS FT

ELB-L insertion plate

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 FS	200	1.00	3000	3	88.500	6103235
ELB-L 30 FS	300	1.00	3000	3	137.400	6103251
ELB-L 40 FS	400	1.00	3000	3	186.300	6103286
ELB-L 50 FS	500	1.00	3000	3	235.200	6103316
ELB-L 60 FS	600	1.00	3000	3	285.070	6103332
ELB-L 20 FT	200	1.00	3000	3	100.240	6103421
ELB-L 30 FT	300	1.00	3000	3	155.640	6103448
ELB-L 40 FT	400	1.00	3000	3	211.040	6103456
ELB-L 50 FT	500	1.00	3000	3	269.740	6103464
ELB-L 60 FT	600	1.00	3000	3	322.870	6103480





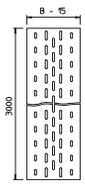
Insert plate for use in cable ladders.

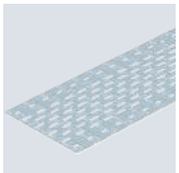
For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

St DD

ELB-L insertion plate

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 DD	200	1.00	3000	3	88.500	6103352
ELB-L 30 DD	300	1.00	3000	3	137.400	6103356
ELB-L 40 DD	400	1.00	3000	3	186.300	6103360
ELB-L 50 DD	500	1.00	3000	3	235.200	6103364
ELB-L 60 DD	600	1.00	3000	3	285.180	6103368





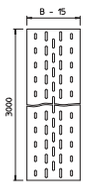
Insert plate for use in cable ladders.

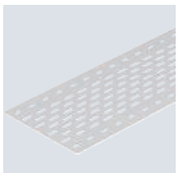
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

VA 2B

ELB-L insertion plate

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	6103614
ELB-L30 A2	300	1.00	3000	3	146.567	6103618
ELB-L40 A2	400	1.00	3000	3	198.700	6103622
ELB-L50 A2	500	1.00	3000	3	250.867	6103626
ELB-L60 A2	600	1.00	3000	3	303.033	6103630





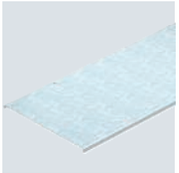
Insert plate for use in cable ladders.

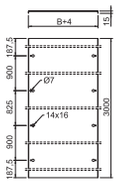
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for stand-off mounting

St FT





Type	Width mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 FT	230	1.50	3000	3	319.240	**6051222**
DRL FAM 330 FT	330	1.50	3000	3	444.800	**6051224**
DRL FAM 430 FT	430	1.50	3000	3	570.370	**6051226**
DRL FAM 530 FT	530	1.50	3000	3	695.900	**6051228**
DRL FAM 630 FT	630	1.50	3000	3	821.470	**6051230**

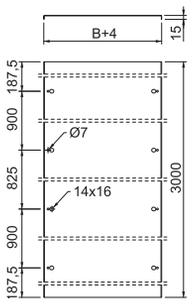
Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

Cover for stand-off mounting

VA VA 2B



Type	Width mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 A2	230	1.50	3000	3	299.370	**6051192**
DRL FAM 330 A2	330	1.50	3000	3	417.140	**6051194**
DRL FAM 430 A2	430	1.50	3000	3	534.870	**6051196**
DRL FAM 530 A2	530	1.50	3000	3	652.640	**6051198**
DRL FAM 630 A2	630	1.50	3000	3	770.370	**6051200**
DRL FAM 230 A4	230	1.50	3000	3	299.370	**6051210**
DRL FAM 330 A4	330	1.50	3000	3	417.140	**6051212**
DRL FAM 430 A4	430	1.50	3000	3	534.870	**6051214**
DRL FAM 530 A4	530	1.50	3000	3	652.640	**6051216**
DRL FAM 630 A4	630	1.50	3000	3	770.370	**6051218**

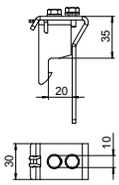
Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

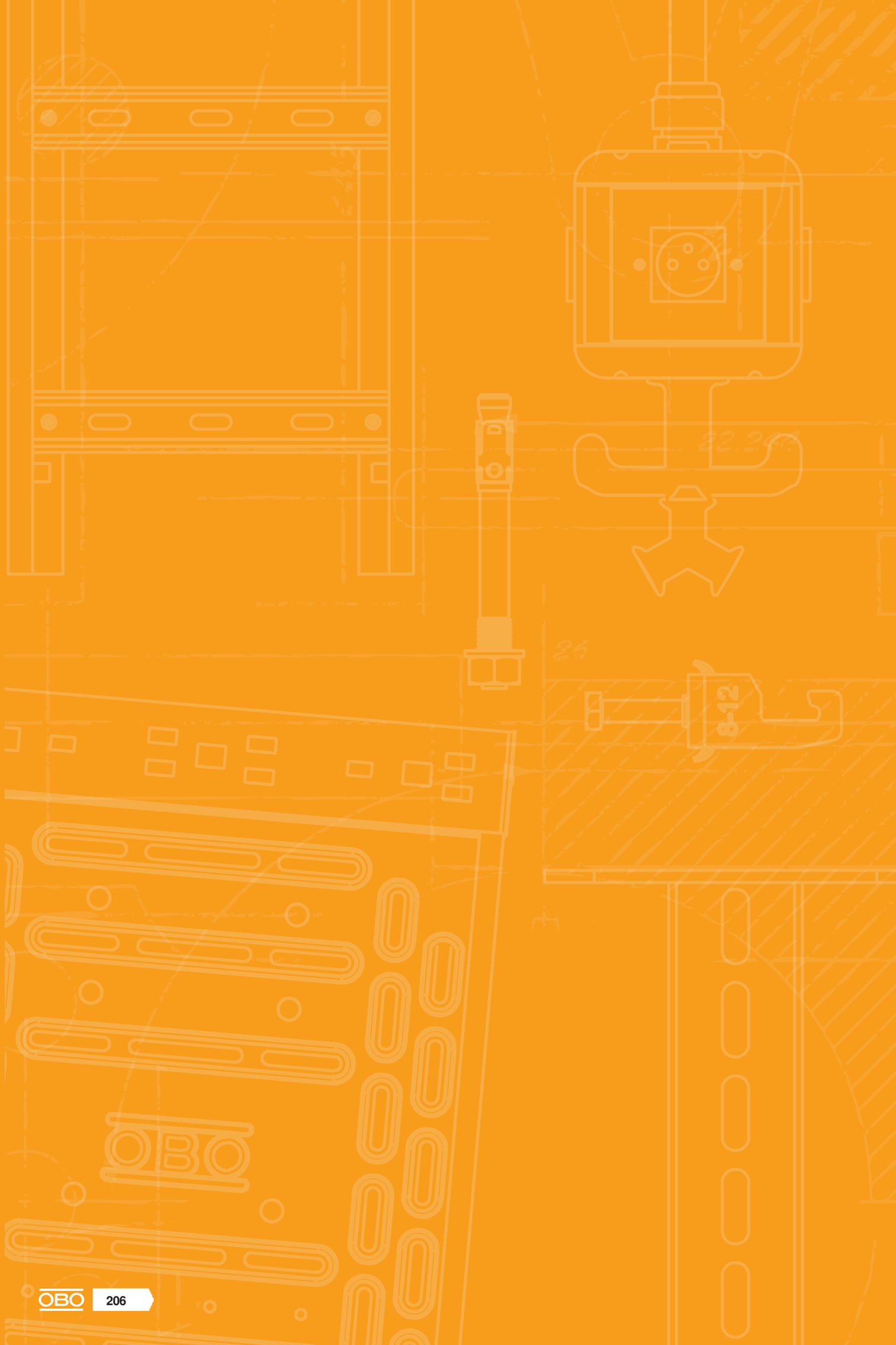
Spacer for cover

VA 2B

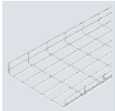
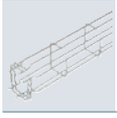


Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 WS A2	35	8	14.500	**6065477**

Spacer for stand-off mounting of covers on wide span cable trays and wide span cable ladders. Space height 35 mm, stainless steel 1.4301.



Mesh cable trays

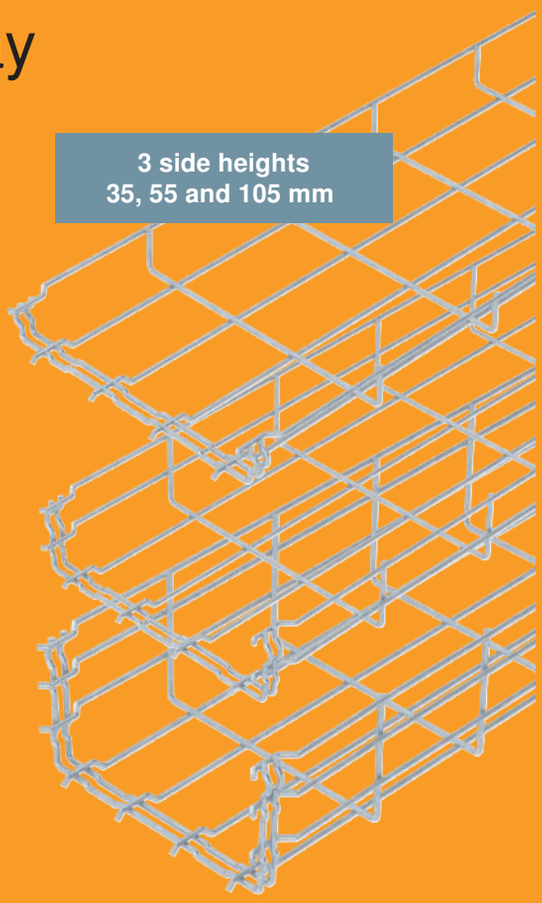
	Side height 35 mm	206
	Side height 55 mm	220
	Side height 105 mm	230
	C mesh cable tray	238
	G mesh cable tray	244
	System accessories, mesh cable tray systems	262

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

GR-Magic® mesh cable tray

The GR-Magic® mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible mounting times, even for complex installation operations.

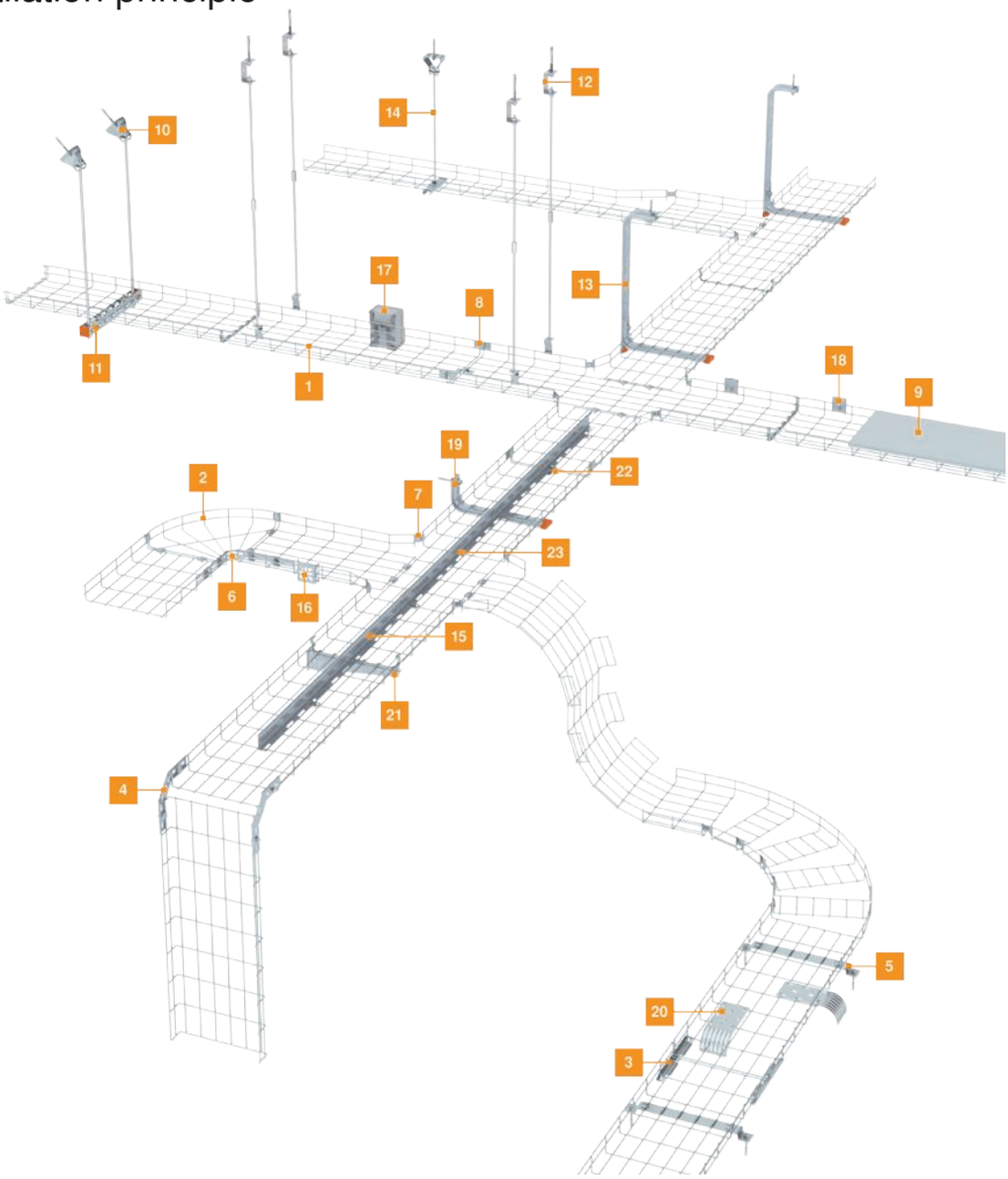
3 side heights
35, 55 and 105 mm



- Fast and secure connection through plug connection
- Locking system accessory, such as the barrier strips
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved mesh cable tray system

GR-Magic® mesh cable tray

Installation principle

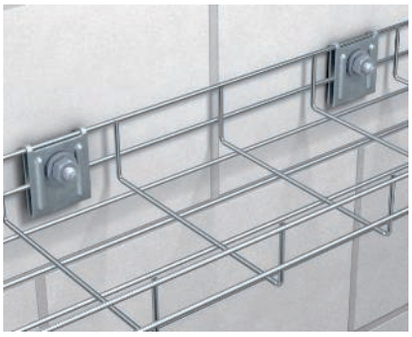


1	GR-Magic mesh cable tray	13	TP suspended support
2	90° mesh cable tray bend	14	Central suspension, GMS
3	Mesh cable tray connector, long	15	Barrier strip
4	90° mounting bracket	16	Mounting plate
5	Stand-off bracket	17	Fastening element for junction box
6	Slotted steel strap, bent	18	Wall and ceiling bracket
7	Corner connector	19	Wall and support bracket TPSAG
8	Joint connector	20	Cable exit plate
9	Cover, unperforated	21	AWG 15 wall and support bracket
10	Ceiling clamp, variable	22	Hold-down clamp for barrier strip fastening
11	Mounting rail, MS 41	23	Barrier strip connector
12	Ceiling bracket		

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

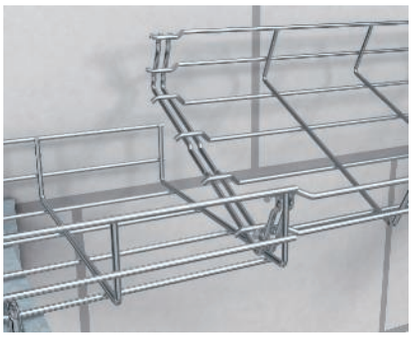
Mounting aid

Wall mounting GRM 35 50
Wall mounting for direct wall fastening of mesh cable trays GRM 35 50.

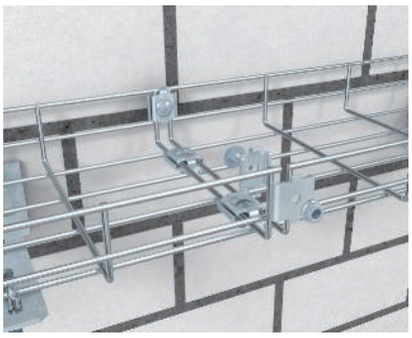


Wall mounting of mesh cable trays
Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.

Wall and floor fastener WB GR
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on. Suitable for wire thickness of 3.9 mm.

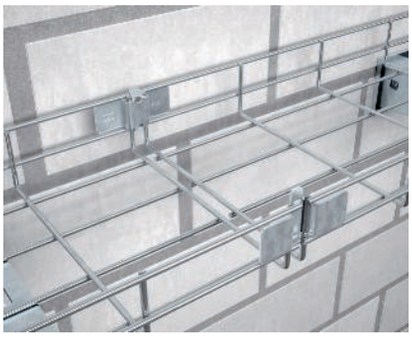


Straight connection of Magic® mesh cable tray
Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.

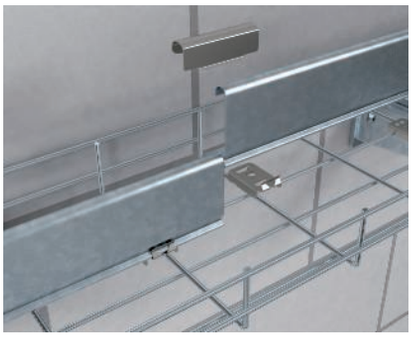


Screwed straight connection of mesh cable trays
Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.

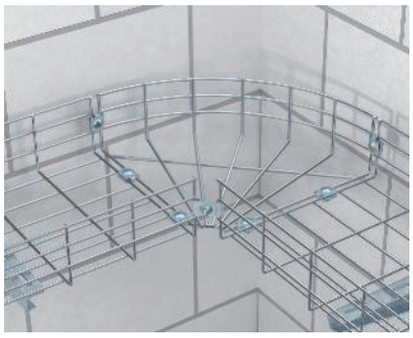
Screwless straight connection with quick connectors
Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.



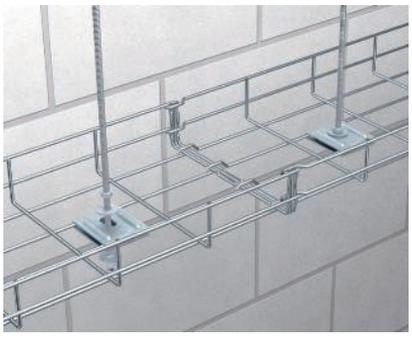
Screwless straight connection of mesh cable trays
Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



Screwless barrier strip fastening
Screwless fastening of a barrier strip in mesh cable trays with clamping piece, type KS GR. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



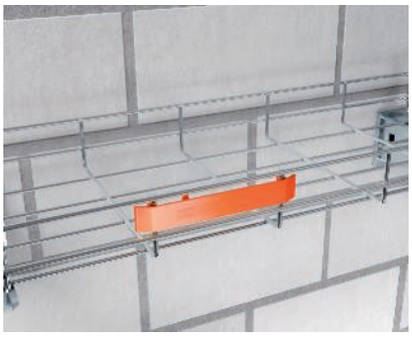
Installation of a mesh cable tray bend
Mounting of a mesh cable tray bend, type GRB 90.



Centre suspension
Suspension of a mesh cable tray using a threaded rod, type 2078, and a wall and floor fastener, type K12 1818. Use with widths of up to 200 mm.

Side holder
Installation of the conduit take off bracket, type SH KAB, for accepting cable glands.

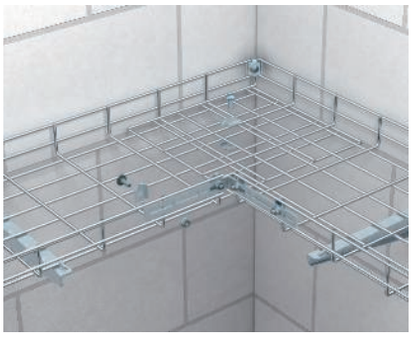
Mounting plate
Screwless quick fastening of the mounting plate, type MP UNI.



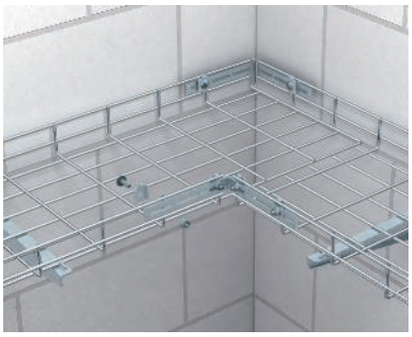
Identification plate
Mounting of the identification plate, type KS-GR, in the side rail of the mesh cable tray.

Cover mounting
Cover with snap-on function for easy locking to the mesh cable tray.

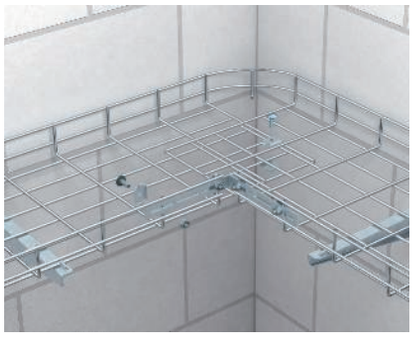
Installation of mesh angle
Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.



Creation of a mesh cable tray bend – angular, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form an angular mesh cable tray bend.



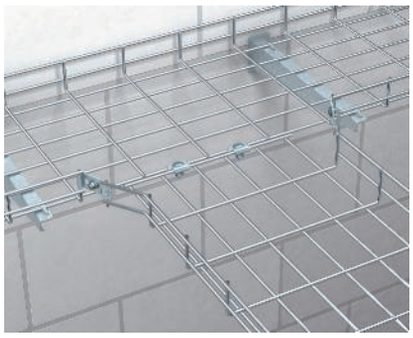
Creation of a mesh cable tray bend – angular
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed as a non-overlapping, angular mesh cable tray bend.



Creation of a mesh cable tray bend – round, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form a round mesh cable tray bend.

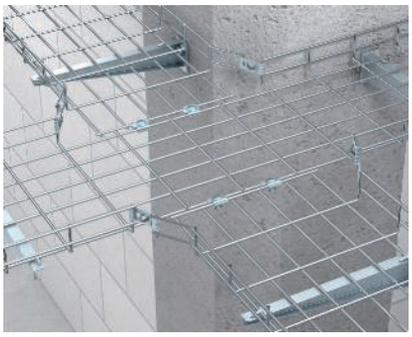
Creation of a mesh cable tray bend - round
Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.

Rising and falling bends
Rising and falling vertical bends can be created by cutting into every second grid of the mesh cable tray edge and bending the mesh cable tray accordingly.

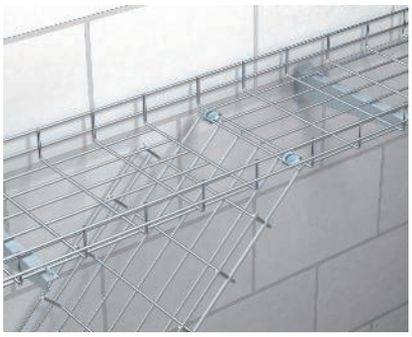


Creation of a mesh cable tray tee
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.

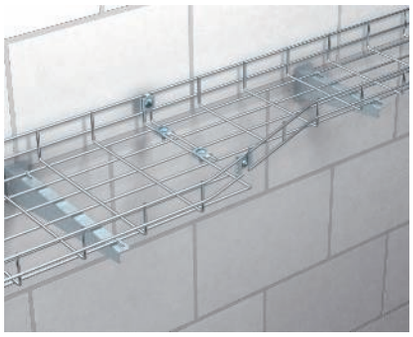
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Creation of a mesh cable tray cross-over
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.

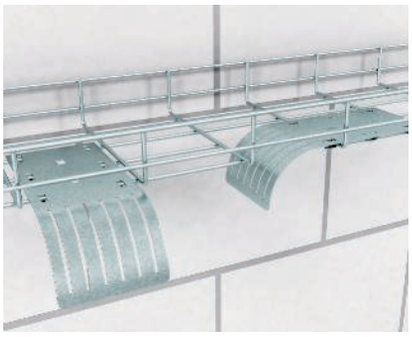


Creation of a vertical exit
After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.

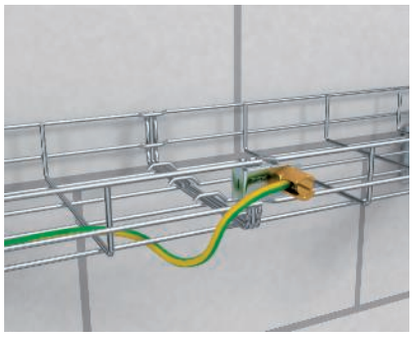


Creation of a reduction
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.

Mesh cable tray with cable exit plate
Cable exit plate for screwless mounting in mesh cable trays. The cable exit plate allows maintenance of pre-specified bend radii.



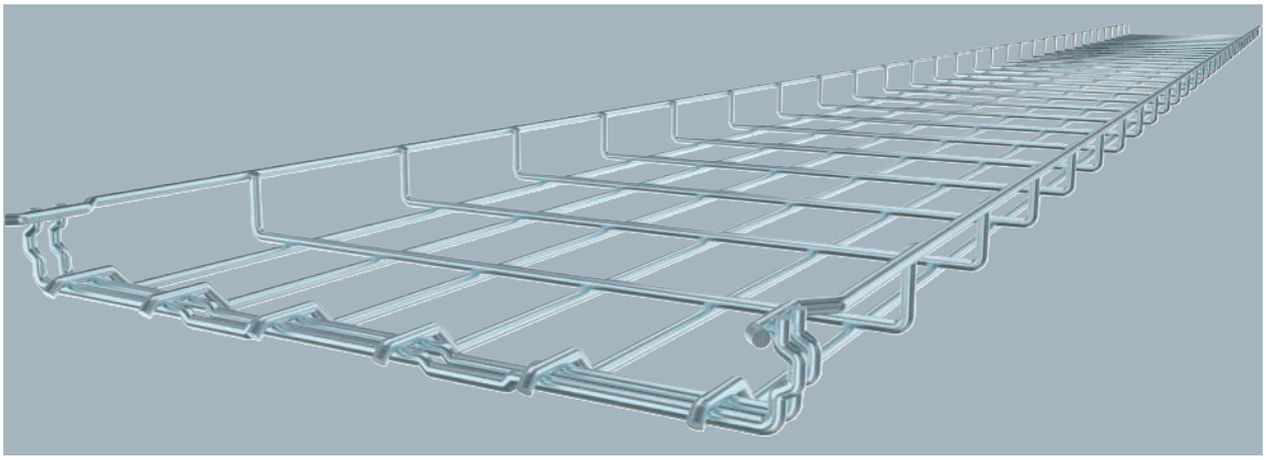
Mesh cable tray with cable exit plate
The cable exit plate can be installed in lengthwise and transverse directions.



Earthing terminal / earth connection
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

St G

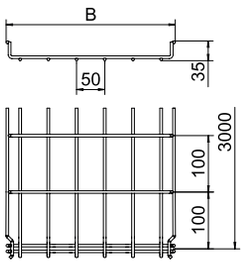
Mesh cable tray GR-Magic® 35



Mesh cable tray with shaped connector of side height 35 mm.

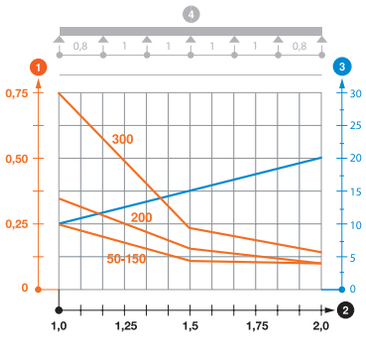
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 G	50	3.9	3	45.000	**6000060**
GRM 35 100 G	100	3.9	3	50.333	**6000062**
GRM 35 150 G	150	3.9	3	63.333	**6000063**
GRM 35 200 G	200	3.9	3	76.667	**6000064**
GRM 35 300 G	300	4.8	3	159.000	**6000066**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 G	3000	52	17.5
GRM 35 100 G	3000	100	35
GRM 35 150 G	3000	150	52.5
GRM 35 200 G	3000	200	70
GRM 35 300 G	3000	300	105

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 G	0.25	0.11	0.1
GRM 35 100 G	0.25	0.11	0.1
GRM 35 150 G	0.25	0.11	0.1
GRM 35 200 G	0.3	0.14	0.1
GRM 35 300 G	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

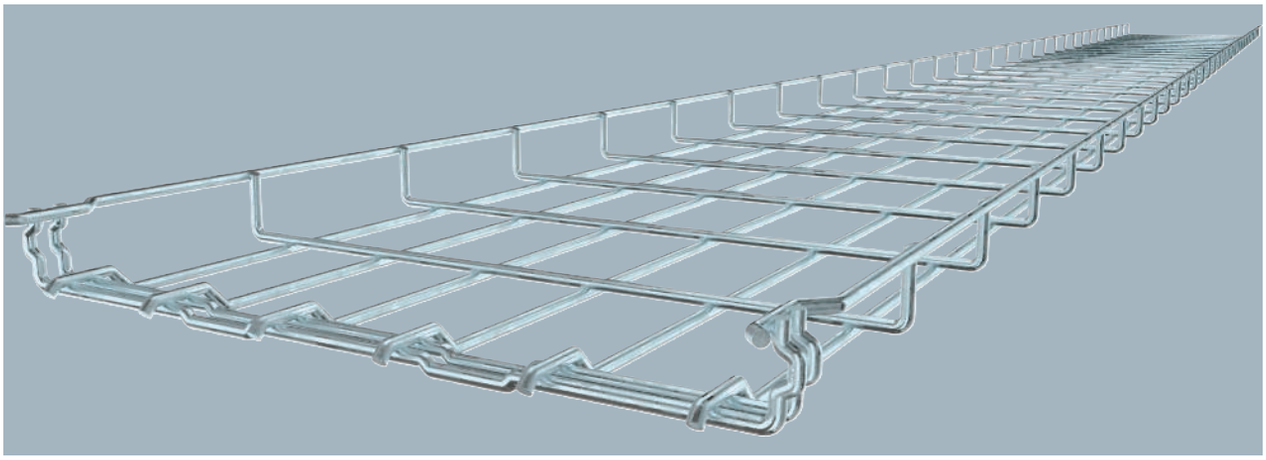
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mesh cable tray side height 35

St FT

Mesh cable tray GR-Magic® 35



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 FT	50	3.9	3	46.000	**6000069**
GRM 35 100 FT	100	3.9	3	50.333	**6000071**
GRM 35 150 FT	150	3.9	3	64.333	**6000072**
GRM 35 200 FT	200	3.9	3	78.333	**6000073**
GRM 35 300 FT	300	4.8	3	165.333	**6000075**

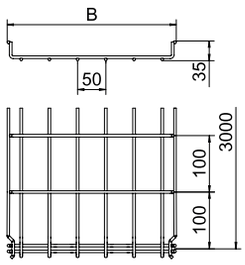
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

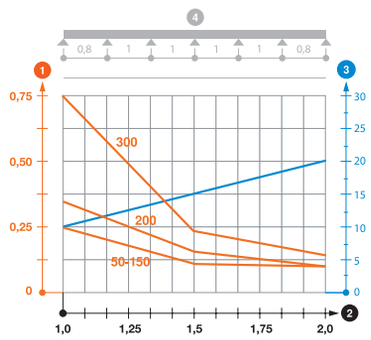
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 FT	3000	52	17.5
GRM 35 100 FT	3000	100	35
GRM 35 150 FT	3000	150	52.5
GRM 35 200 FT	3000	200	70
GRM 35 300 FT	3000	300	105

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 FT	0.25	0.11	0.1
GRM 35 100 FT	0.25	0.11	0.1
GRM 35 150 FT	0.25	0.11	0.1
GRM 35 200 FT	0.3	0.14	0.3
GRM 35 300 FT	0.75	0.22	0.15

Load



Load diagram, GR-Magic mesh cable tray, type GRM 35

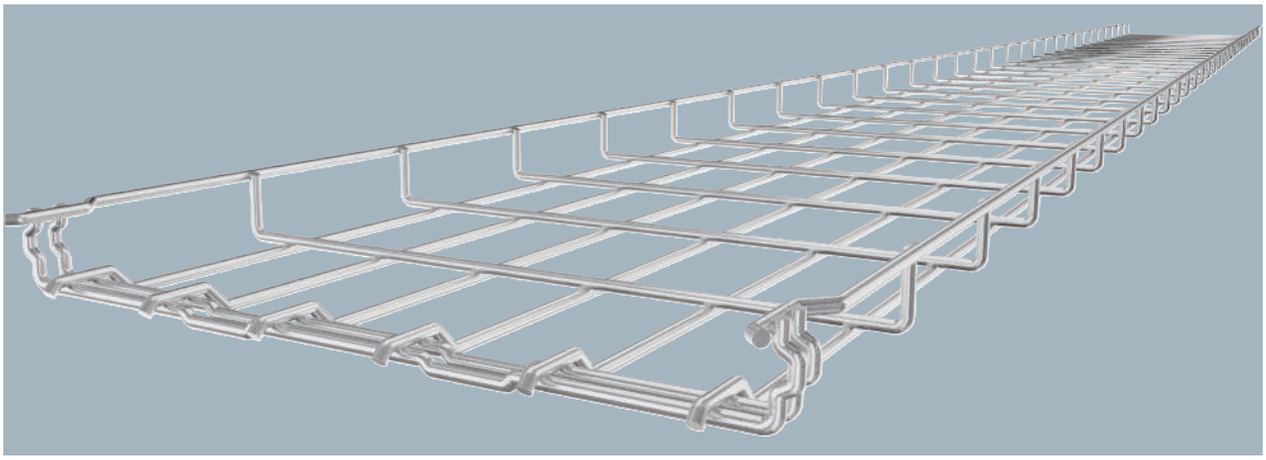
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Mesh cable tray GR-Magic®



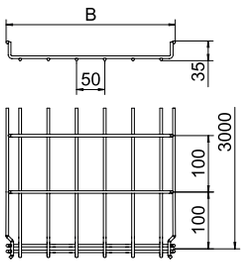
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

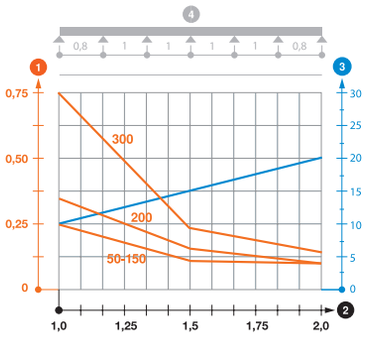
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 A2	50	3.9	3	45.000	**6000054**
GRM 35 100 A2	100	3.9	3	49.000	**6000055**
GRM 35 150 A2	150	3.9	3	63.333	**6000056**
GRM 35 200 A2	200	3.9	3	76.000	**6000057**
GRM 35 300 A2	300	4.8	3	159.000	**6000059**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 A2	3000	52	17.5
GRM 35 100 A2	3000	100	35
GRM 35 150 A2	3000	150	52.5
GRM 35 200 A2	3000	200	70
GRM 35 300 A2	3000	300	105

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1
GRM 35 150 A2	0.25	0.11	0.1
GRM 35 200 A2	0.3	0.14	0.1
GRM 35 300 A2	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

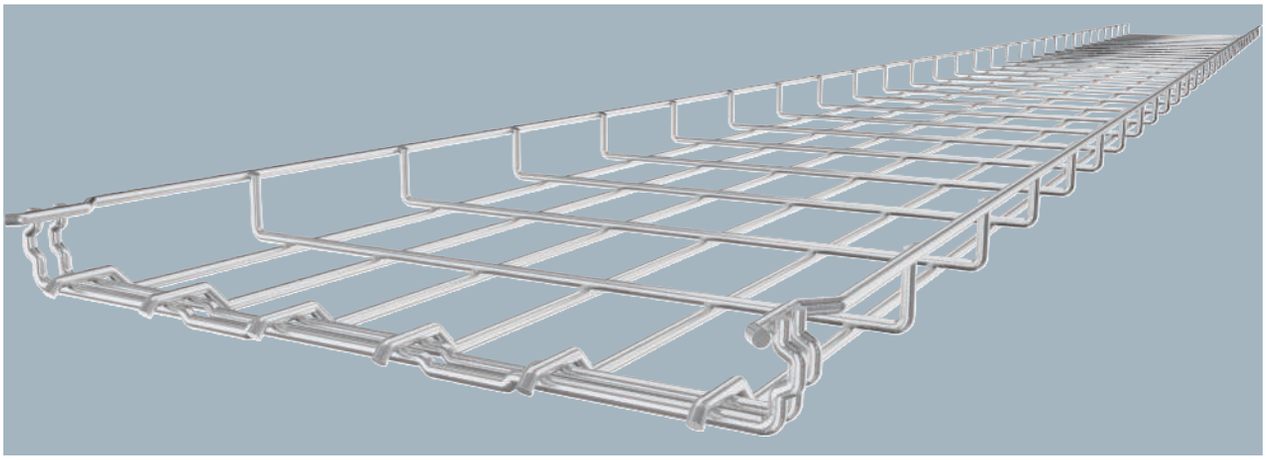
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mesh cable tray GR-Magic® 35

VA 2B



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 A4	50	3.9	3	45.000	**6000086**
GRM 35 100 A4	100	3.9	3	49.000	**6000087**
GRM 35 150 A4	150	3.9	3	63.333	**6000089**
GRM 35 200 A4	200	3.9	3	76.000	**6000090**
GRM 35 300 A4	300	4.8	3	159.000	**6000091**

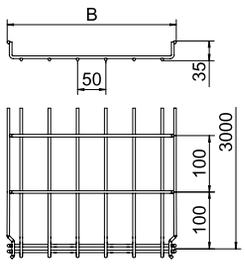
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

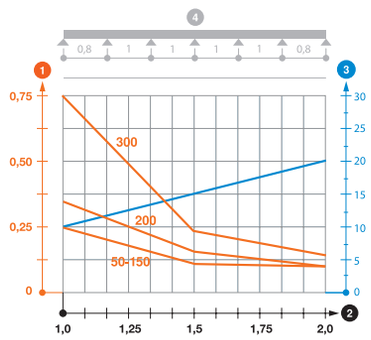
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 A4	3000	52	17.5
GRM 35 100 A4	3000	100	35
GRM 35 150 A4	3000	150	52.5
GRM 35 200 A4	3000	200	70
GRM 35 300 A4	3000	300	105

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 A4	0.25	0.11	0.1
GRM 35 100 A4	0.25	0.11	0.1
GRM 35 150 A4	0.25	0.11	0.1
GRM 35 200 A4	0.3	0.14	0.1
GRM 35 300 A4	0.75	0.22	0.15

Load



Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

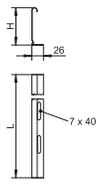
— Strut bend curve according to support width

St FS DD

Separating retainer 30

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

Separating retainer for separation of cables of different voltages or functions.

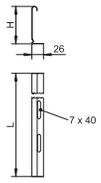


VA VA 2B

Barrier strip 30

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 A2	30	0.75	3000	3	40.434	6062052
TSG 30 A4	30	0.75	3000	3	40.434	6062054

Barrier strip for separation of cables of different voltages or functions.

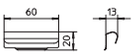


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

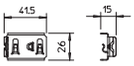


VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

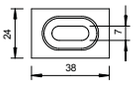


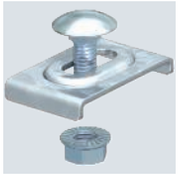
St G

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.





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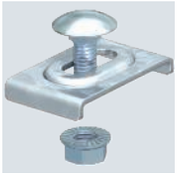
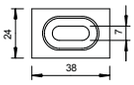
GKT 38 hold-down clamp

St FT



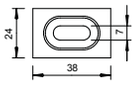


Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 clamping piece

VA VA 2B



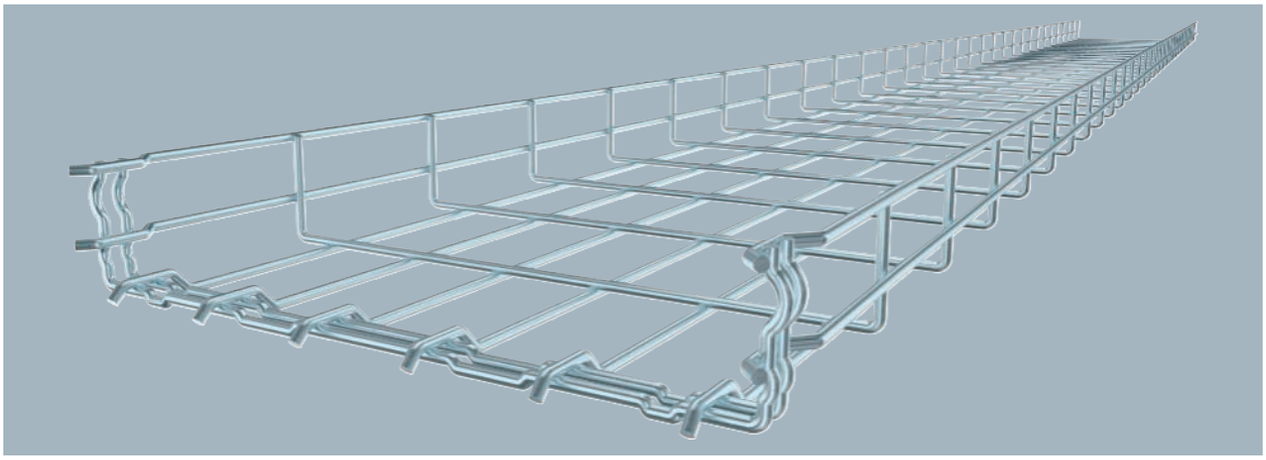
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

Mesh cable tray side height 55

St G

GR-Magic® 55 mesh cable tray



Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 G	50	3.9		3	67.000	**6001441**
GRM 55 100 G	100	3.9		3	72.000	**6001442**
GRM 55 150 G	150	3.9		3	85.667	**6001444**
GRM 55 200 G	200	3.9		3	100.667	**6001446**
GRM 55 200 4.8 G	200	4.8		3	150.000	**6001447**
GRM 55 300 G	300	4.8		3	192.333	**6001448**
GRM 55 400 G	400	4.8		3	234.667	**6001450**
GRM 55 500 G	500	4.8		3	276.667	**6001452**
GRM 55 600 G	600	4.8		3	320.000	**6001454**

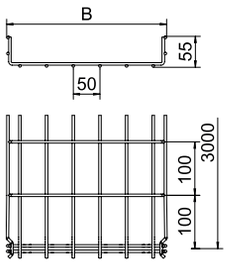
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm). Tested for the maintenance of electrical function according to DIN 4102 Part 12 (type: GRM 55 200 4.8 G, GRM 55 300 G, GRM 55 400 G, mounting work and parameters according to valid test certificate).
Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

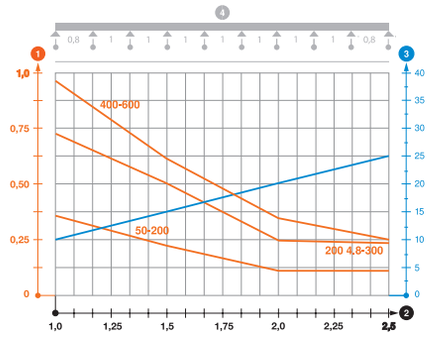
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 G	3000	52	16
GRM 55 100 G	3000	100	40
GRM 55 150 G	3000	150	63
GRM 55 200 G	3000	200	87
GRM 55 200 4.8 G	3000	200	87
GRM 55 300 G	3000	300	129
GRM 55 400 G	3000	400	175
GRM 55 500 G	3000	500	220
GRM 55 600 G	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 G	0.35	0.2	0.1	0.1
GRM 55 100 G	0.35	0.2	0.1	0.1
GRM 55 150 G	0.35	0.2	0.1	0.1
GRM 55 200 G	0.35	0.2	0.1	0.1
GRM 55 200 4.8 G	0.7	0.5	0.25	0.2
GRM 55 300 G	0.7	0.5	0.25	0.2
GRM 55 400 G	0.9	0.6	0.3	0.25
GRM 55 500 G	0.9	0.6	0.3	0.25
GRM 55 600 G	0.9	0.6	0.3	0.25

Load



Load diagram, GR-Magic mesh cable tray, type GRM 55

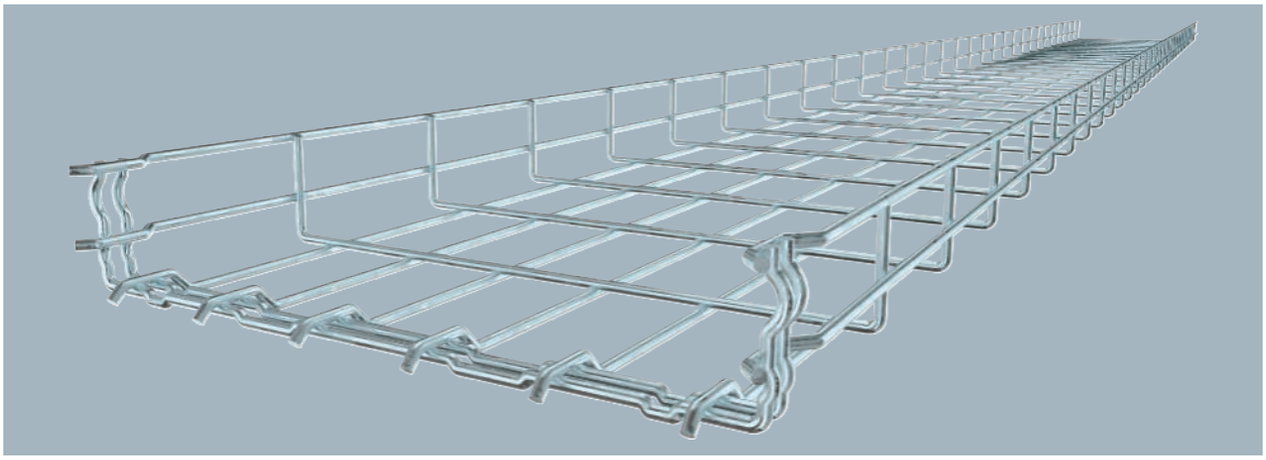
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Mesh cable tray GR-Magic® 55



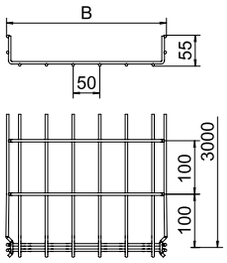
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

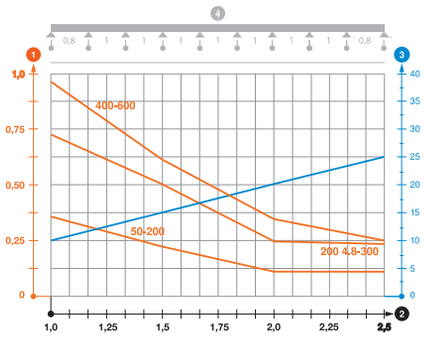
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 55 50 FT	50	3.9	3	72.333	**6001415**
GRM 55 100 FT	100	3.9	3	74.667	**6001416**
GRM 55 150 FT	150	3.9	3	90.000	**6001418**
GRM 55 200 FT	200	3.9	3	102.000	**6001420**
GRM 55 200 4.8FT	200	4.8	3	156.667	**6001421**
GRM 55 300 FT	300	4.8	3	200.667	**6001424**
GRM 55 400 FT	400	4.8	3	245.000	**6001428**
GRM 55 500 FT	500	4.8	3	288.333	**6001432**
GRM 55 600 FT	600	4.8	3	331.333	**6001436**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 FT	3000	52	16
GRM 55 100 FT	3000	100	40
GRM 55 150 FT	3000	150	63
GRM 55 200 FT	3000	200	87
GRM 55 200 4.8FT	3000	200	87
GRM 55 300 FT	3000	300	129
GRM 55 400 FT	3000	400	175
GRM 55 500 FT	3000	500	220
GRM 55 600 FT	3000	600	265

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 55 600 FT	0.9	0.6	0.3	0.25

Load diagram, GR-Magic mesh cable tray, type GRM 55

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

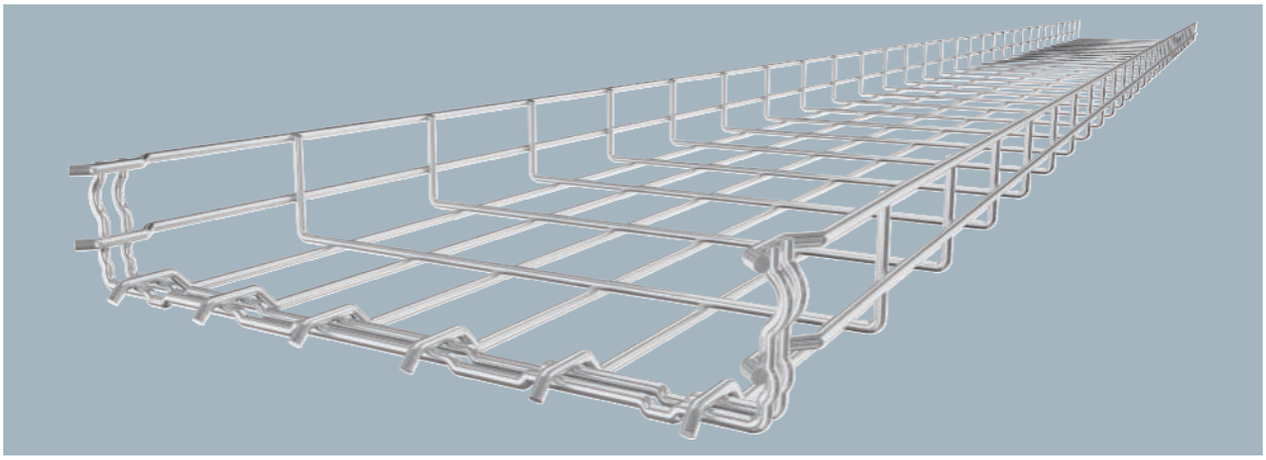
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mesh cable tray side height 55

Mesh cable tray GR-Magic® 55

VA 2B



Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 A2	50	3.9		3	67.000	**6001070**
GRM 55 100 A2	100	3.9		3	72.000	**6001072**
GRM 55 150 A2	150	3.9		3	85.667	**6001074**
GRM 55 200 A2	200	3.9		3	99.000	**6001076**
GRM 55 300 A2	300	4.8		3	192.333	**6001078**
GRM 55 400 A2	400	4.8		3	234.667	**6001080**
GRM 55 500 A2	500	4.8		3	276.667	**6001082**
GRM 55 600 A2	600	4.8		3	320.000	**6001085**

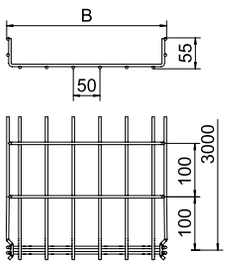
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

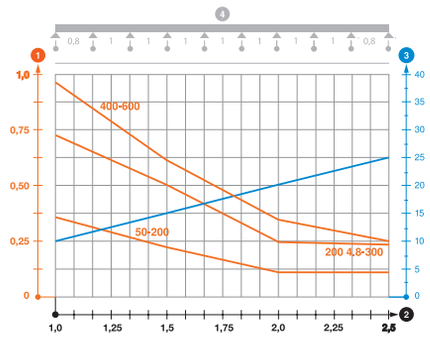
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 A2	3000	52	16
GRM 55 100 A2	3000	100	40
GRM 55 150 A2	3000	150	63
GRM 55 200 A2	3000	200	87
GRM 55 300 A2	3000	300	129
GRM 55 400 A2	3000	400	175
GRM 55 500 A2	3000	500	220
GRM 55 600 A2	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A2	0.35	0.2	0.1	0.1
GRM 55 100 A2	0.35	0.2	0.1	0.1
GRM 55 150 A2	0.35	0.2	0.1	0.1
GRM 55 200 A2	0.35	0.2	0.1	0.1
GRM 55 300 A2	0.7	0.5	0.25	0.2
GRM 55 400 A2	0.9	0.6	0.3	0.25
GRM 55 500 A2	0.9	0.6	0.3	0.25
GRM 55 600 A2	0.9	0.6	0.3	0.25

Load



Load diagram, mesh cable tray GRM 55 VA

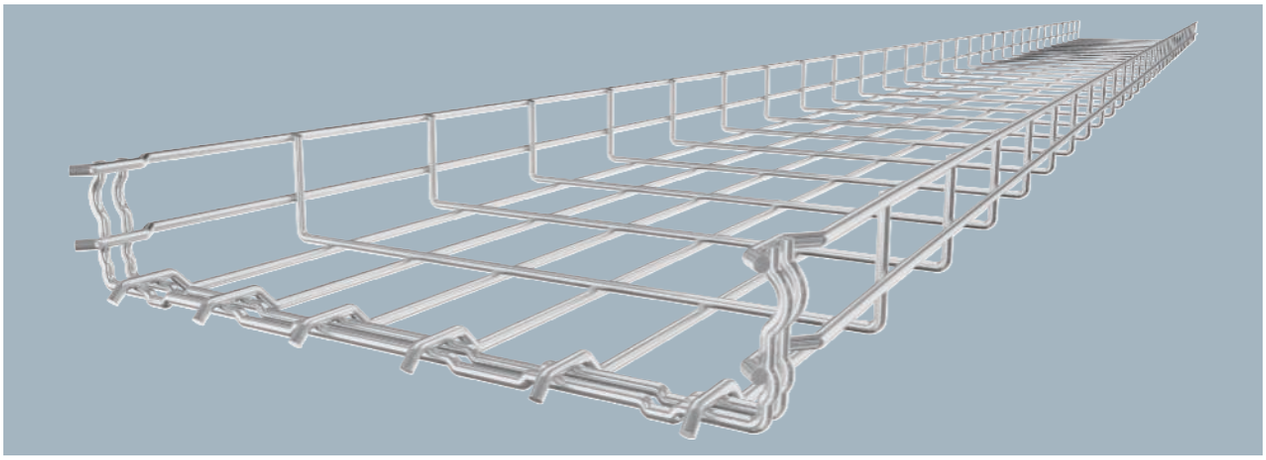
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

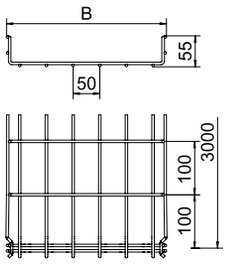
Mesh cable tray GR-Magic® 55



Mesh cable tray with shaped connector of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

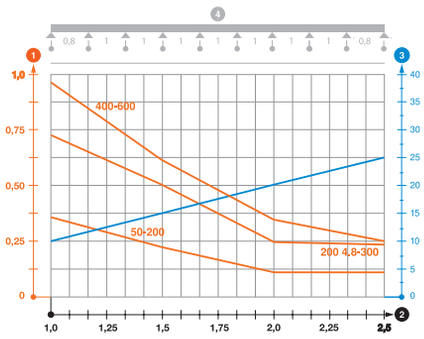
Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 A4	50	3.9		3	67.000	**6001087**
GRM 55 100 A4	100	3.9		3	72.000	**6001088**
GRM 55 150 A4	150	3.9		3	85.667	**6001090**
GRM 55 200 A4	200	3.9		3	99.000	**6001091**
GRM 55 300 A4	300	4.8		3	192.333	**6001093**
GRM 55 400 A4	400	4.8		3	234.667	**6001095**
GRM 55 500 A4	500	4.8		3	276.667	**6001097**
GRM 55 600 A4	600	4.8		3	320.000	**6001099**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 A4	3000	52	16
GRM 55 100 A4	3000	100	40
GRM 55 150 A4	3000	150	63
GRM 55 200 A4	3000	200	87
GRM 55 300 A4	3000	300	129
GRM 55 400 A4	3000	400	175
GRM 55 500 A4	3000	500	220
GRM 55 600 A4	3000	600	265

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A4	0.35	0.2	0.1	0.1
GRM 55 100 A4	0.35	0.2	0.1	0.1
GRM 55 150 A4	0.35	0.2	0.1	0.1
GRM 55 200 A4	0.35	0.2	0.1	0.1
GRM 55 300 A4	0.7	0.5	0.25	0.2
GRM 55 400 A4	0.9	0.6	0.3	0.25
GRM 55 500 A4	0.9	0.6	0.3	0.25
GRM 55 600 A4	0.9	0.6	0.3	0.25

Load diagram, mesh cable tray GRM 55 VA

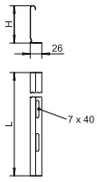
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Separating retainer 45

St FS DD

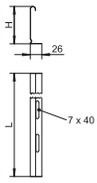


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 45

VA VA 2B

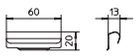


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**
TSG 45 A4	45	0.75	3000	3	49.850	**6062028**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

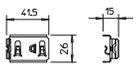


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening in GRM

VA 2B

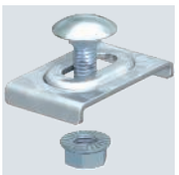


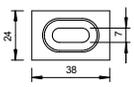
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	**6062282**

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKT 38 clamping piece

St G





Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	**6017037**

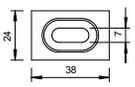
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

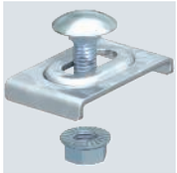
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



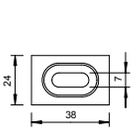


VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



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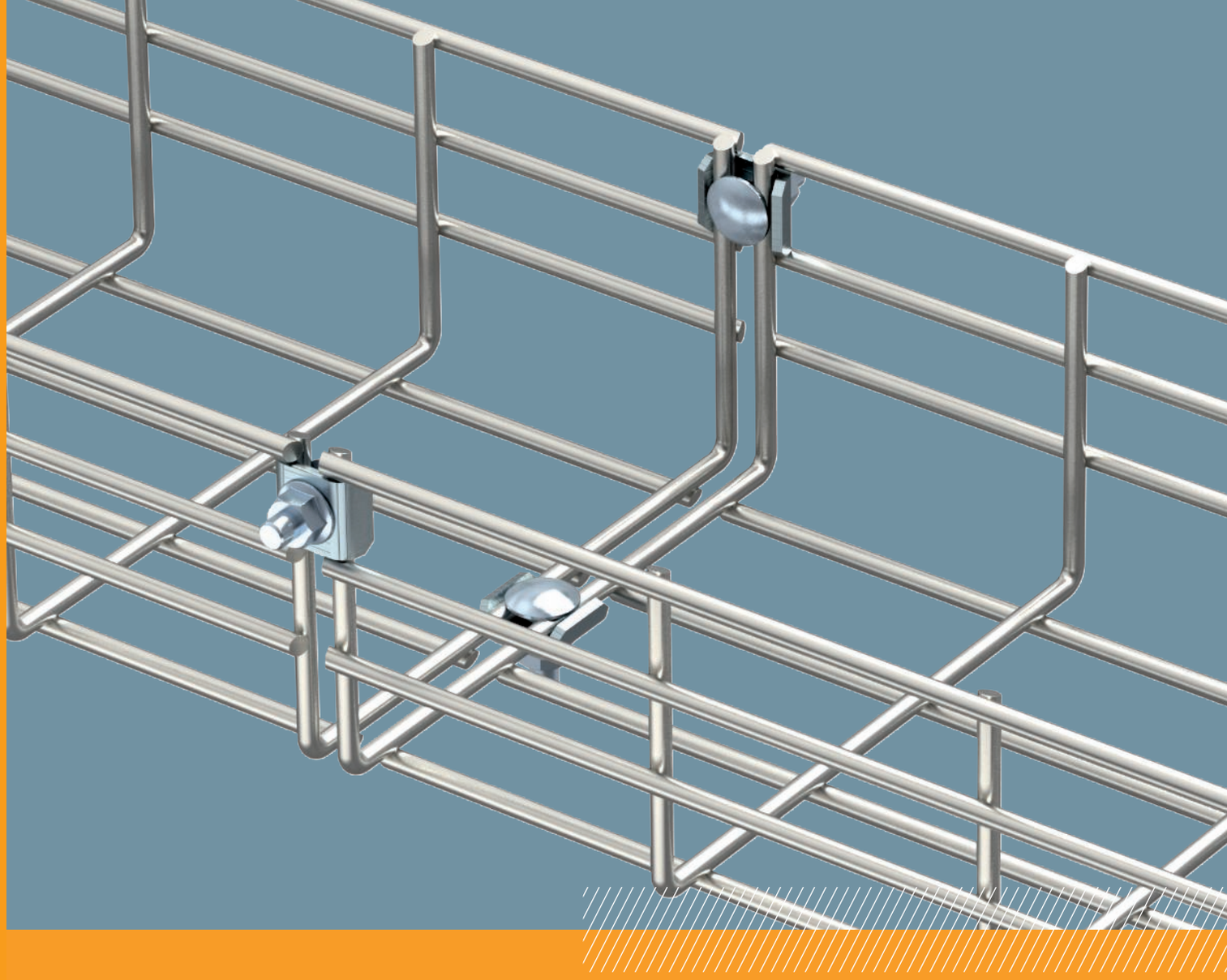
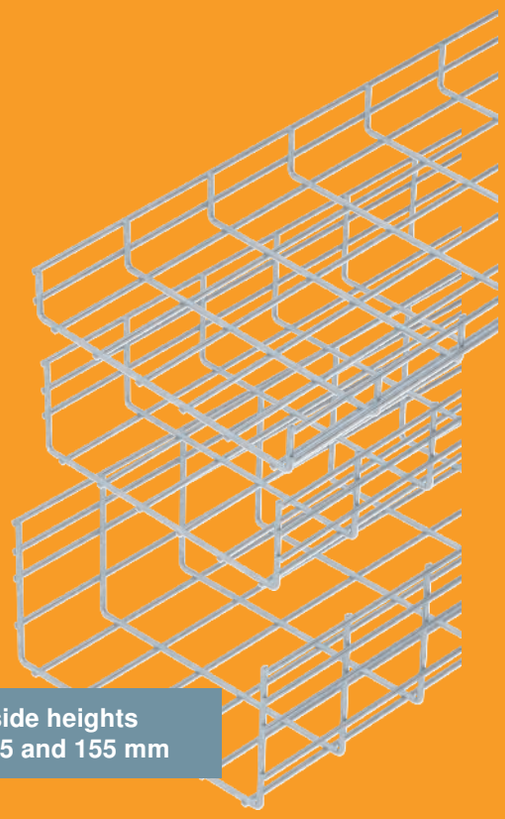


Heavy-duty SGR mesh cable tray made of 6 mm wire

Today, due to the wide range of applications, the requirements for mesh cable trays differ a great deal. Besides simple mounting, a high load capacity, dirt-repelling qualities, good ventilation behaviour and high-quality surface refinement are particularly in demand.

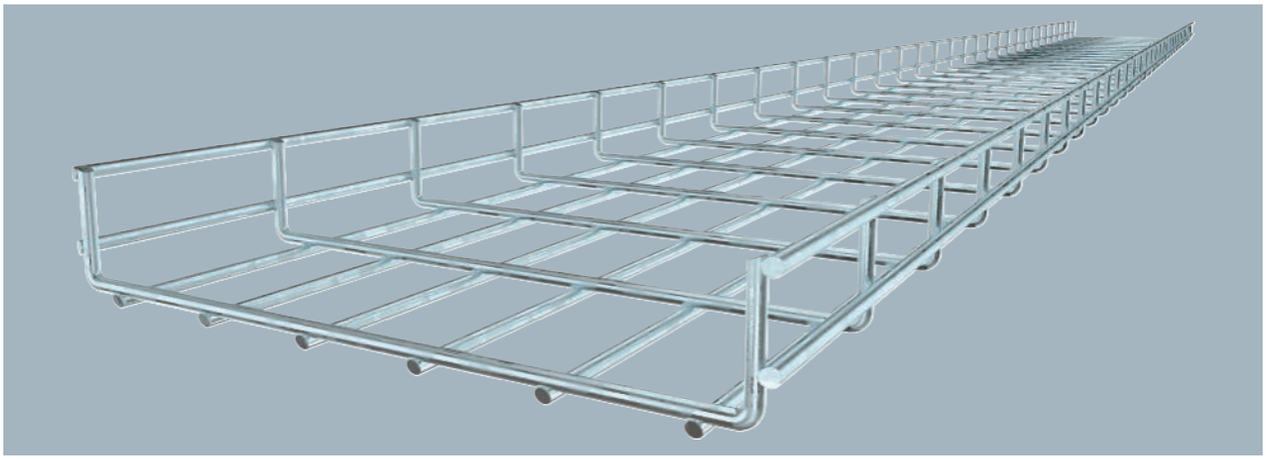
The new heavy-duty mesh cable tray of type SGR, made of 6 mm-thick wire in a U profile, combines many advantages all at the same time. The strong wire design means that the SGR, with its low intrinsic weight, can withstand load capacities of up to 110% more than the comparable mesh cable trays of competitors and can thus also be used for larger support spacings of up to 4.0 m.



3 side heights
55, 105 and 155 mm

St FT

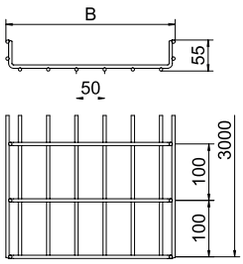
Heavy-duty cable tray SGR 55



Mesh cable tray made of spot-welded steel wire of side height 55 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

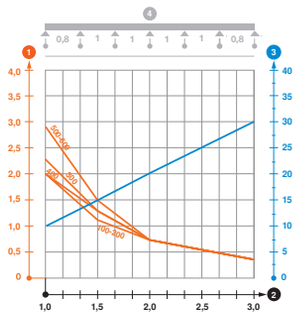
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 FT	100	6	3	171.667	**6000122**
SGR 55 150 FT	150	6	3	205.333	**6000190**
SGR 55 200 FT	200	6	3	238.667	**6000209**
SGR 55 300 FT	300	6	3	305.667	**6000331**
SGR 55 400 FT	400	6	3	372.667	**6000451**
SGR 55 500 FT	500	6	3	439.667	**6000515**
SGR 55 600 FT	600	6	3	507.000	**6000775**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 55 100 FT	3000	100	40
SGR 55 150 FT	3000	150	63
SGR 55 200 FT	3000	200	87
SGR 55 300 FT	3000	300	129
SGR 55 400 FT	3000	400	175
SGR 55 500 FT	3000	500	220
SGR 55 600 FT	3000	600	265

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 FT	2	1.15	0.75	0.4
SGR 55 150 FT	2	1.15	0.75	0.4
SGR 55 200 FT	2	1.15	0.75	0.4
SGR 55 300 FT	2	1.3	0.75	0.4
SGR 55 400 FT	2.3	1.3	0.75	0.4
SGR 55 500 FT	2.9	1.5	0.75	0.4
SGR 55 600 FT	2.9	1.5	0.75	0.4

Load diagram, mesh cable tray, type SGR 55

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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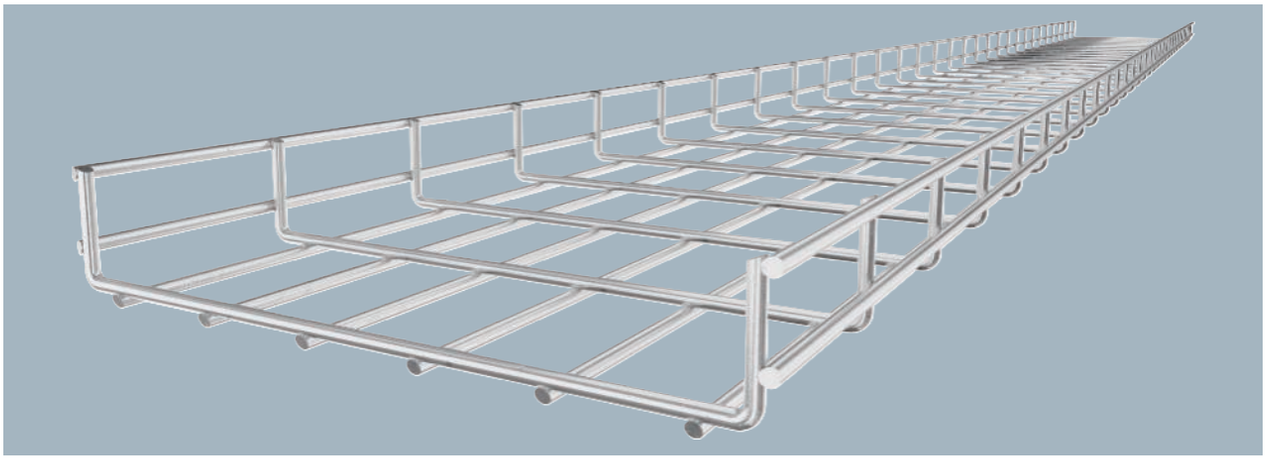
SGR mesh cable tray system, side height 55

Heavy-duty cable tray SGR 55

VA 2B



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 55 100 A2	100	6	3	166.000	**6000909**
SGR 55 150 A2	150	6	3	198.000	**6000913**
SGR 55 200 A2	200	6	3	231.333	**6000917**
SGR 55 300 A2	300	6	3	296.333	**6000925**
SGR 55 400 A2	400	6	3	361.333	**6000933**
SGR 55 500 A2	500	6	3	426.333	**6000941**
SGR 55 600 A2	600	6	3	491.667	**6000958**

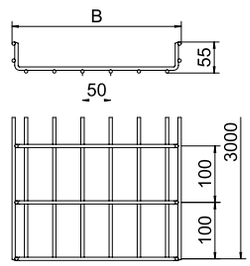
Mesh cable tray made of spot-welded steel wire of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

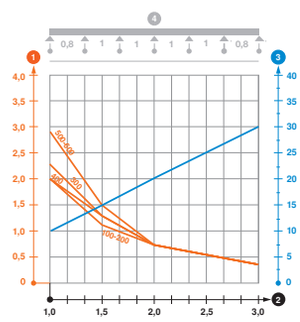
Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 55 100 A2	3000	100	40
SGR 55 150 A2	3000	150	63
SGR 55 200 A2	3000	200	87
SGR 55 300 A2	3000	300	129
SGR 55 400 A2	3000	400	175
SGR 55 500 A2	3000	500	220
SGR 55 600 A2	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SGR 55 100 A2	2	1.15	0.75	0.4
SGR 55 150 A2	2	1.15	0.75	0.4
SGR 55 200 A2	2	1.15	0.75	0.4
SGR 55 300 A2	2	1.3	0.75	0.4
SGR 55 400 A2	2.3	1.3	0.75	0.4
SGR 55 500 A2	2.9	1.5	0.75	0.4
SGR 55 600 A2	2.9	1.5	0.75	0.4

Load



Load diagram, mesh cable tray, type SGR 55

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

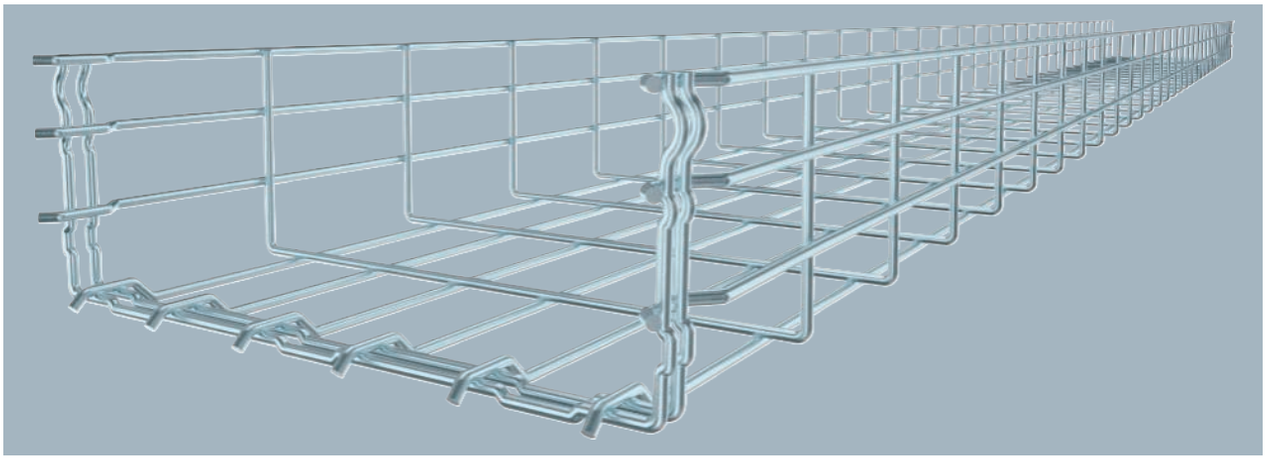
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Mesh cable tray side height 105

St G

Mesh cable tray GR-Magic® 105



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 G	100	3.9	3	99.333	**6002402**
GRM 105 150 G	150	3.9	3	111.667	**6002404**
GRM 105 200 G	200	4.8	3	192.333	**6002406**
GRM 105 300 G	300	4.8	3	234.667	**6002408**
GRM 105 400 G	400	4.8	3	278.000	**6002410**
GRM 105 500 G	500	4.8	3	319.000	**6002415**
GRM 105 600 G	600	4.8	3	363.333	**6002417**

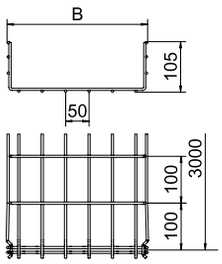
Mesh cable tray with shaped connector of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

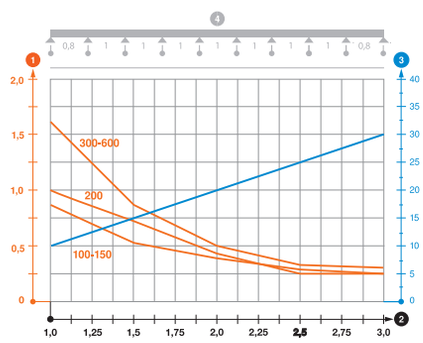
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 G	3000	100	82
GRM 105 150 G	3000	150	130
GRM 105 200 G	3000	200	175
GRM 105 300 G	3000	300	268
GRM 105 400 G	3000	400	363
GRM 105 500 G	3000	500	459
GRM 105 600 G	3000	600	554

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3

Load



Load diagram, mesh cable tray, type GRM 105

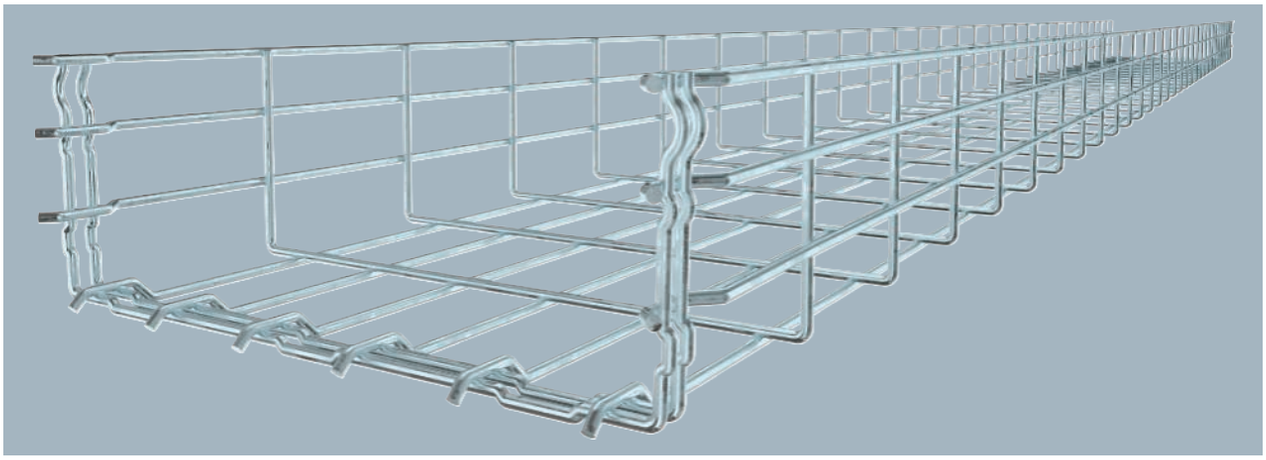
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

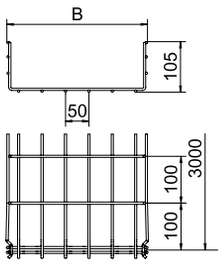
Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

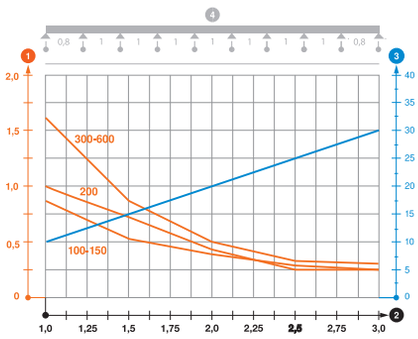
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 FT	100	3.9	3	105.333	**6002431**
GRM 105 150 FT	150	3.9	3	119.000	**6002433**
GRM 105 200 FT	200	4.8	3	202.333	**6002435**
GRM 105 300 FT	300	4.8	3	244.000	**6002437**
GRM 105 400 FT	400	4.8	3	288.333	**6002439**
GRM 105 500 FT	500	4.8	3	335.000	**6002443**
GRM 105 600 FT	600	4.8	3	375.000	**6002445**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 FT	3000	100	82
GRM 105 150 FT	3000	150	130
GRM 105 200 FT	3000	200	175
GRM 105 300 FT	3000	300	268
GRM 105 400 FT	3000	400	363
GRM 105 500 FT	3000	500	459
GRM 105 600 FT	3000	600	554

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 FT	0.8	0.55	0.37	0.25
GRM 105 150 FT	0.8	0.55	0.37	0.25
GRM 105 200 FT	1	0.7	0.4	0.25
GRM 105 300 FT	1.6	0.8	0.5	0.3
GRM 105 400 FT	1.6	0.8	0.5	0.3
GRM 105 500 FT	1.6	0.8	0.5	0.3
GRM 105 600 FT	1.6	0.8	0.5	0.3

Load diagram, mesh cable tray, type GRM 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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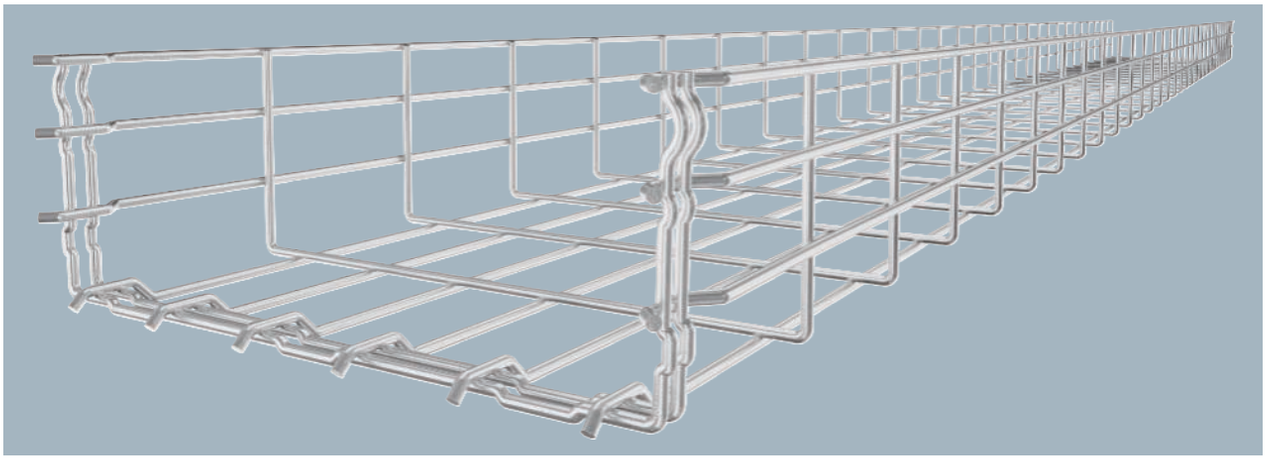
Mesh cable tray side height 105

Mesh cable tray GR-Magic® 105

VA 2B



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 A2	100	3.9	3	99.333	**6002451**
GRM 105 150 A2	150	3.9	3	111.667	**6002455**
GRM 105 200 A2	200	4.8	3	200.667	**6002457**
GRM 105 300 A2	300	4.8	3	234.667	**6002460**
GRM 105 400 A2	400	4.8	3	277.000	**6002463**
GRM 105 500 A2	500	4.8	3	319.000	**6002466**
GRM 105 600 A2	600	4.8	3	363.333	**6002469**

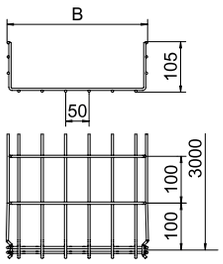
Mesh cable tray with shaped connector of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

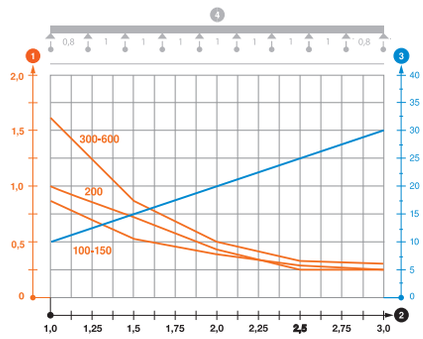
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 A2	3000	100	82
GRM 105 150 A2	3000	150	130
GRM 105 200 A2	3000	200	175
GRM 105 300 A2	3000	300	268
GRM 105 400 A2	3000	400	363
GRM 105 500 A2	3000	500	459
GRM 105 600 A2	3000	600	554

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 A2	0.8	0.55	0.37	0.25
GRM 105 150 A2	0.8	0.55	0.37	0.25
GRM 105 200 A2	0.8	0.55	0.37	0.25
GRM 105 300 A2	1.1	0.75	0.53	0.3
GRM 105 400 A2	1.1	0.75	0.53	0.3
GRM 105 500 A2	1.25	0.85	0.6	0.3
GRM 105 600 A2	1.25	0.85	0.6	0.3

Load



Load diagram, mesh cable tray, type GRM 105

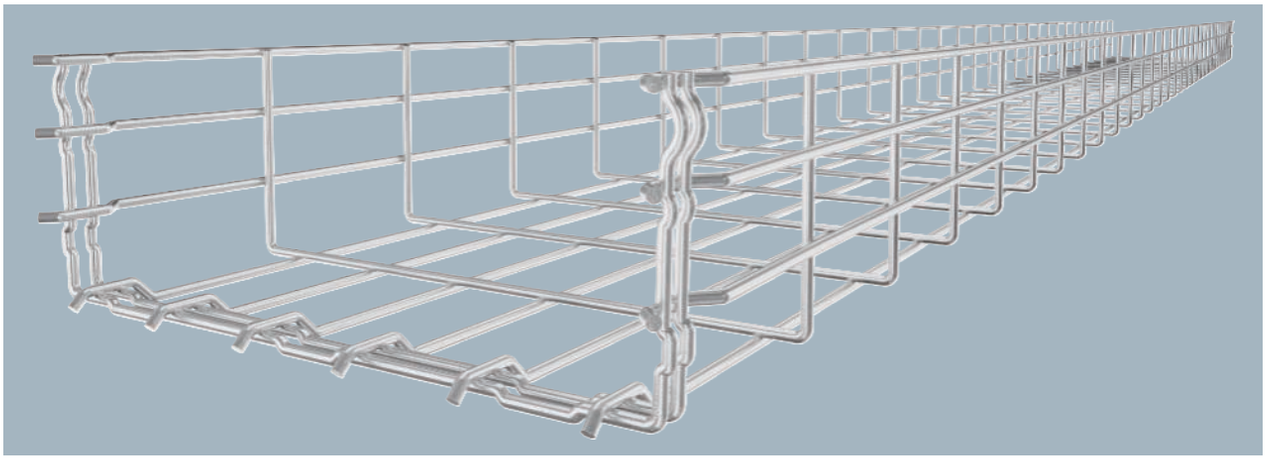
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

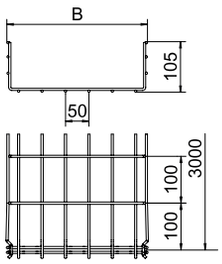
Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

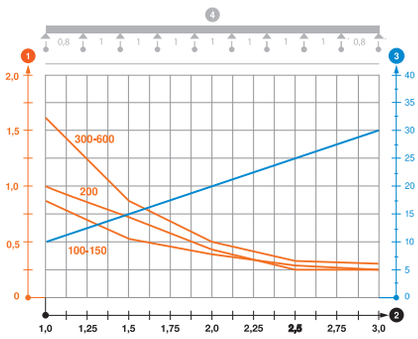
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 A4	100	3.9	3	99.333	**6002475**
GRM 105 150 A4	150	3.9	3	111.667	**6002476**
GRM 105 200 A4	200	4.8	3	192.333	**6002477**
GRM 105 300 A4	300	4.8	3	235.000	**6002479**
GRM 105 400 A4	400	4.8	3	277.000	**6002481**
GRM 105 500 A4	500	4.8	3	319.000	**6002483**
GRM 105 600 A4	600	4.8	3	363.333	**6002485**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 A4	3000	100	82
GRM 105 150 A4	3000	150	130
GRM 105 200 A4	3000	200	175
GRM 105 300 A4	3000	300	268
GRM 105 400 A4	3000	400	363
GRM 105 500 A4	3000	500	459
GRM 105 600 A4	3000	600	554

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 A4	0.8	0.55	0.37	0.25
GRM 105 150 A4	0.8	0.55	0.37	0.25
GRM 105 200 A4	0.8	0.55	0.37	0.25
GRM 105 300 A4	1.1	0.75	0.53	0.3
GRM 105 400 A4	1.1	0.75	0.53	0.3
GRM 105 500 A4	1.25	0.85	0.6	0.3
GRM 105 600 A4	1.25	0.85	0.6	0.3

Load diagram, mesh cable tray, type GRM 105

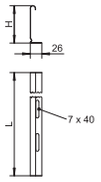
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Separating retainer 85

St FS DD

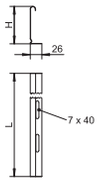


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

Separating retainer for separation of cables of different voltages or functions.

Barrier strip 85

VA 2B

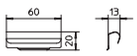


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	6062173

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

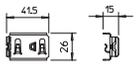


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening in GRM

VA 2B

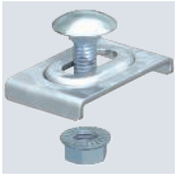


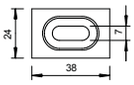
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKT 38 clamping piece

St G





Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

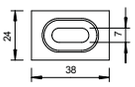
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

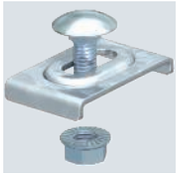
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



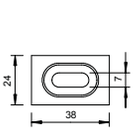


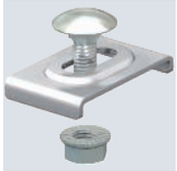
VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.





Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

SGR mesh cable tray system, side height 105

Heavy-duty cable tray SGR 105

St FT

Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 105 150 FT	150	6	3	272.333	**6003175**
SGR 105 200 FT	200	6	3	305.667	**6003214**
SGR 105 300 FT	300	6	3	372.667	**6003309**
SGR 105 400 FT	400	6	3	439.667	**6003402**
SGR 105 500 FT	500	6	3	507.000	**6003515**
SGR 105 600 FT	600	6	3	574.667	**6003616**

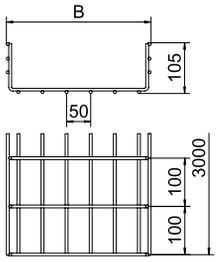
Mesh cable tray made of spot-welded steel wire of side height 105 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

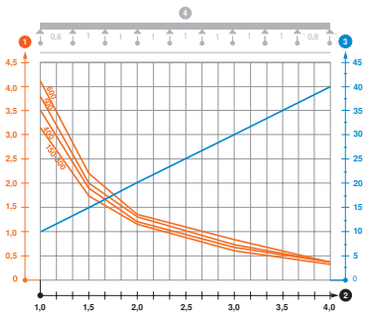
Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 105 150 FT	3000	150	130
SGR 105 200 FT	3000	200	175
SGR 105 300 FT	3000	300	268
SGR 105 400 FT	3000	400	363
SGR 105 500 FT	3000	500	459
SGR 105 600 FT	3000	600	554

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SGR 105 150 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 200 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 300 FT	3.1	1.75	1.15	0.6	0.4
SGR 105 400 FT	3.5	1.9	1.2	0.7	0.45
SGR 105 500 FT	3.8	2	1.3	0.75	0.45
SGR 105 600 FT	4.1	2.2	1.35	0.8	0.45

Load



Load diagram, mesh cable tray, type SGR 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

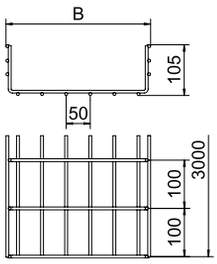
VA 2B

Heavy-duty cable tray SGR 105

Mesh cable tray made of spot-welded steel wire of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

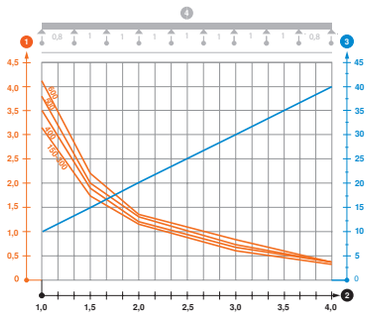
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 105 150 A2	150	6	3	264.000	**6003623**
SGR 105 200 A2	200	6	3	296.333	**6003625**
SGR 105 300 A2	300	6	3	361.333	**6003627**
SGR 105 400 A2	400	6	3	426.333	**6003629**
SGR 105 500 A2	500	6	3	491.667	**6003631**
SGR 105 600 A2	600	6	3	557.333	**6003633**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 105 150 A2	3000	150	130
SGR 105 200 A2	3000	200	175
SGR 105 300 A2	3000	300	268
SGR 105 400 A2	3000	400	363
SGR 105 500 A2	3000	500	459
SGR 105 600 A2	3000	600	554

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SGR 105 150 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 200 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 300 A2	3.1	1.75	1.15	0.6	0.4
SGR 105 400 A2	3.5	1.9	1.2	0.7	0.45
SGR 105 500 A2	3.8	2	1.3	0.75	0.45
SGR 105 600 A2	4.1	2.2	1.35	0.8	0.45

Load diagram, mesh cable tray, type SGR 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

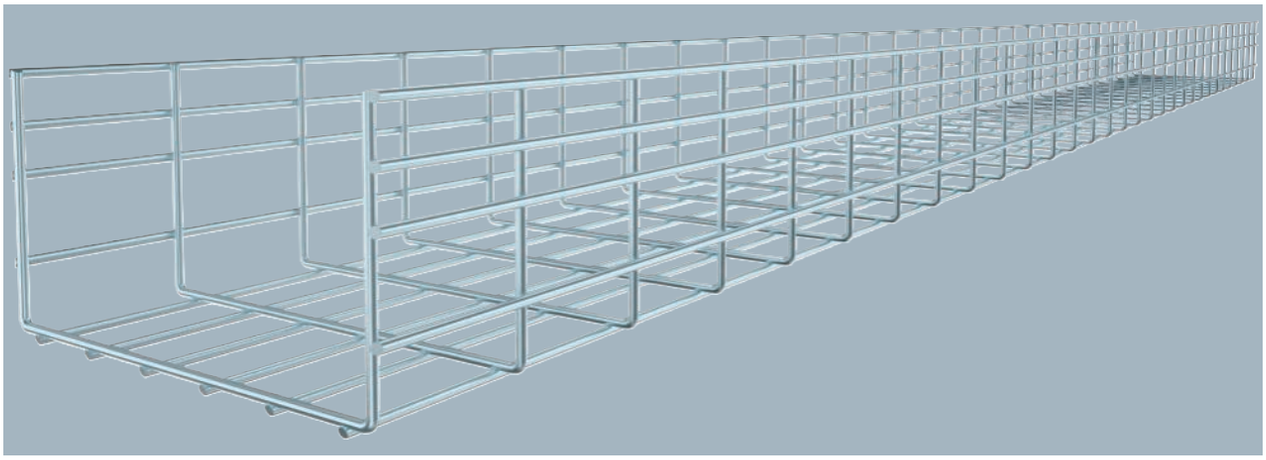
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

SGR mesh cable tray system, side height 155

Heavy-duty cable tray SGR 155

St G



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 155 300 G	300	6	3	426.333	**6003681**
SGR 155 450 G	450	6	3	524.667	**6003684**
SGR 155 500 G	500	6	3	557.333	**6003685**
SGR 155 600 G	600	6	3	622.333	**6003687**

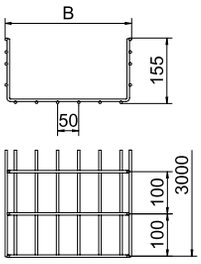
Mesh cable tray made of spot-welded steel wire of side height 155 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

The grid width is 50 x 100 mm.

Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 155 300 G	3000	300	438
SGR 155 450 G	3000	450	663
SGR 155 500 G	3000	500	738
SGR 155 600 G	3000	600	888

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SGR 155 300 G	4.1	2.4	1.55	0.95	0.6
SGR 155 450 G	4.1	2.5	1.6	0.95	0.6
SGR 155 500 G	4.5	2.6	1.6	1	0.65
SGR 155 600 G	4.9	3.2	2.2	1.25	0.8

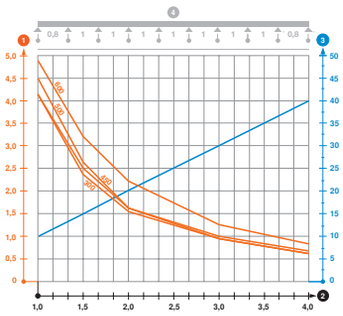
Load

Load diagram, mesh cable tray, type SGR 155

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

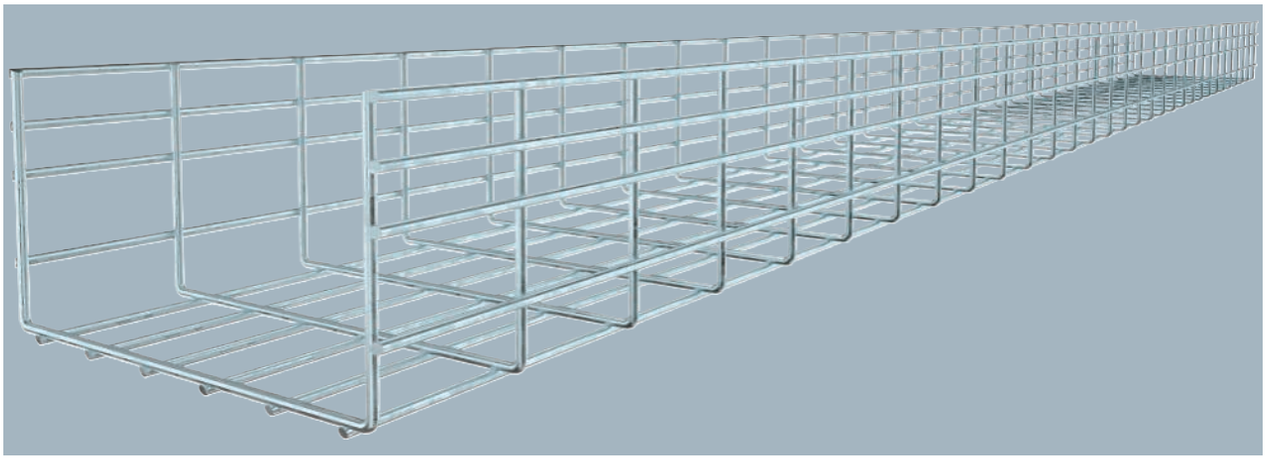
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width



St FT

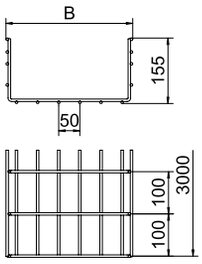
Heavy-duty cable tray SGR 155



Mesh cable tray made of spot-welded steel wire of side height 155 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
The grid width is 50 x 100 mm.

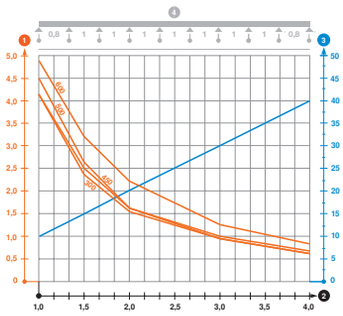
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
SGR 155 300 FT	300	6	3	439.667	**6003692**
SGR 155 450 FT	450	6	3	541.000	**6003695**
SGR 155 500 FT	500	6	3	574.667	**6003696**
SGR 155 600 FT	600	6	3	641.667	**6003698**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SGR 155 300 FT	3000	300	438
SGR 155 450 FT	3000	450	663
SGR 155 500 FT	3000	500	738
SGR 155 600 FT	3000	600	888

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SGR 155 300 FT	4.1	2.4	1.55	0.95	0.6
SGR 155 450 FT	4.1	2.5	1.6	0.95	0.6
SGR 155 500 FT	4.5	2.6	1.6	1	0.65
SGR 155 600 FT	4.9	3.2	2.2	1.25	0.8

Load diagram, mesh cable tray, type SGR 155

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

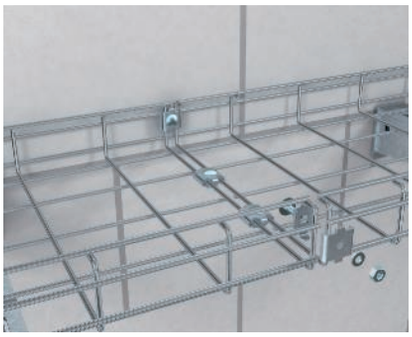
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

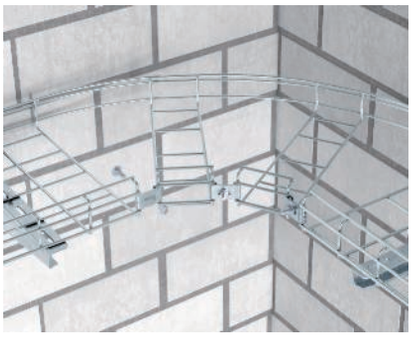
C mesh cable tray

The C mesh cable tray system from OBO Bettermann fulfils the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as hold-down clamps, Quick connectors, barrier strips, suspension profiles, mounting brackets, etc. is an ideal addition to the overall mesh cable tray system. It is used both in industry and in all other areas of professional electrical installations.

Mounting aid



Straight connection of C mesh cable tray
Creation of a straight connection on C mesh cable trays with the joint connector, type GSV 34.



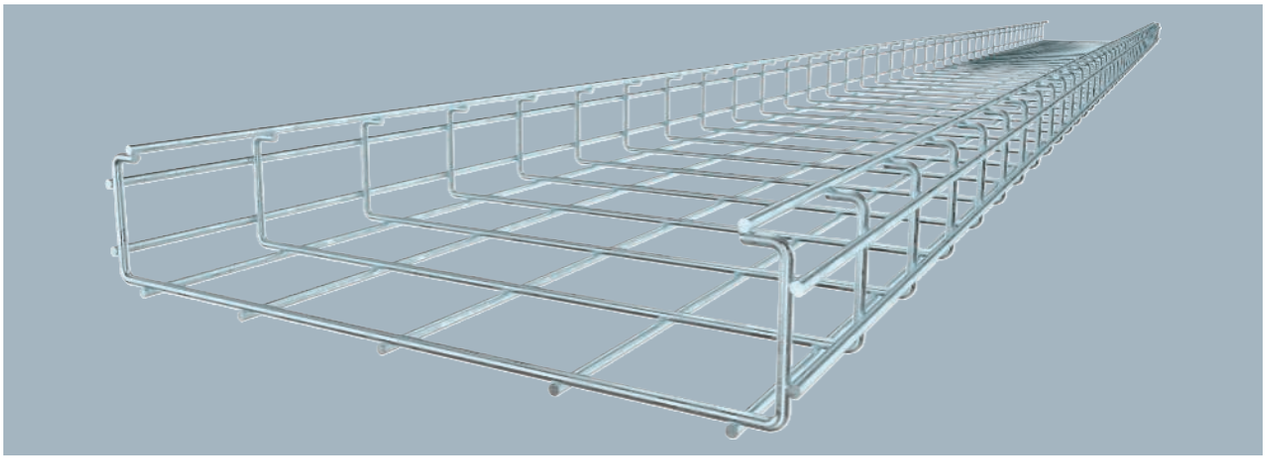
Horizontal bends
Implementation of a horizontal bend for C mesh cable trays with corner connector, type GEV 36.

Vertical bend application
Vertical bend mounting with 90° installation profile.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

C mesh cable tray CGR 50

St FT



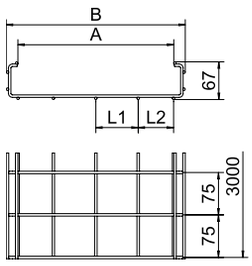
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 FT	50	4.5	3	128.667	**6017428**
CGR 50 100 FT	50	4.5	3	139.100	**6017436**
CGR 50 200 FT	50	4.5	3	177.134	**6017444**
CGR 50 300 FT	50	4.5	3	204.334	**6017452**
CGR 50 400 FT	50	4.5	3	232.334	**6017460**

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.

Magnetic shield insulation 15 dB.

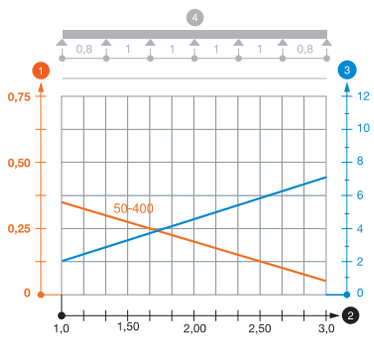
Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm²
CGR 50 50 FT	3000	26	67	13
CGR 50 100 FT	3000	76	117	34
CGR 50 200 FT	3000	176	217	75
CGR 50 300 FT	3000	276	317	116
CGR 50 400 FT	3000	376	417	157

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 FT	0.95	0.6	0.35
CGR 50 100 FT	0.95	0.6	0.35
CGR 50 200 FT	1.1	0.7	0.4
CGR 50 300 FT	1.1	0.7	0.4
CGR 50 400 FT	1.1	0.7	0.4

Load



Load diagram, C mesh cable tray, type CGR 50

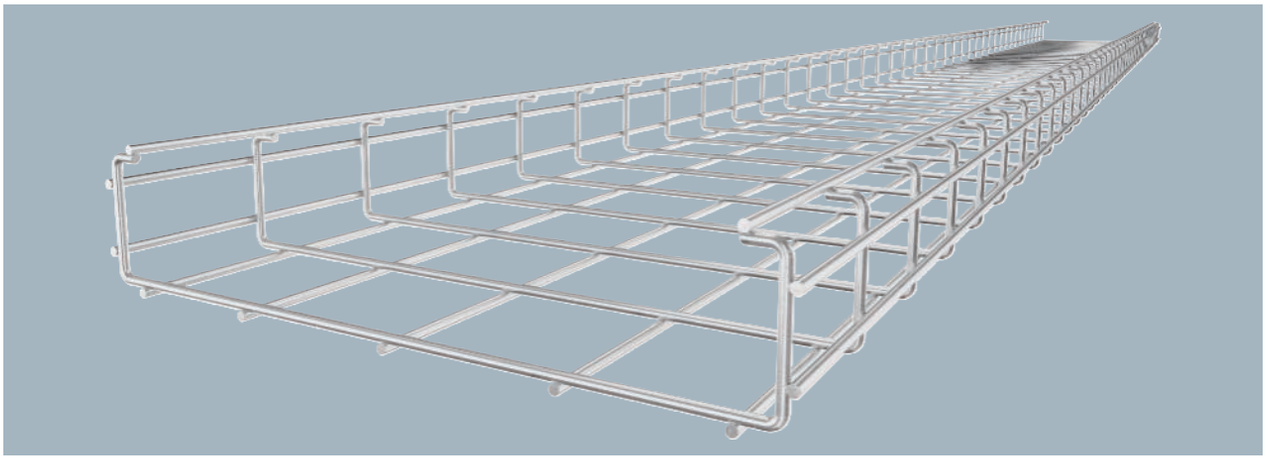
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

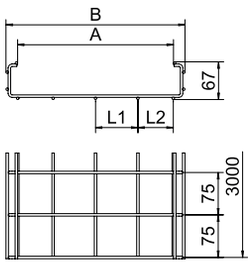
C mesh cable tray CGR 50



C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

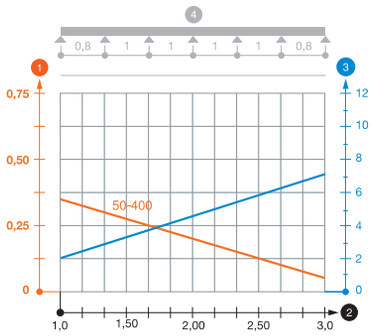
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 A2	50	4.5	3	124.667	**6016200**
CGR 50 100 A2	50	4.5	3	133.000	**6016235**
CGR 50 200 A2	50	4.5	3	173.200	**6016251**
CGR 50 300 A2	50	4.5	3	195.333	**6016253**
CGR 50 400 A2	50	4.5	3	222.334	**6016255**

Dimensions



Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm²
CGR 50 50 A2	3000	26	67	13
CGR 50 100 A2	3000	76	117	33
CGR 50 200 A2	3000	176	217	74
CGR 50 300 A2	3000	276	317	116
CGR 50 400 A2	3000	376	417	157

Load



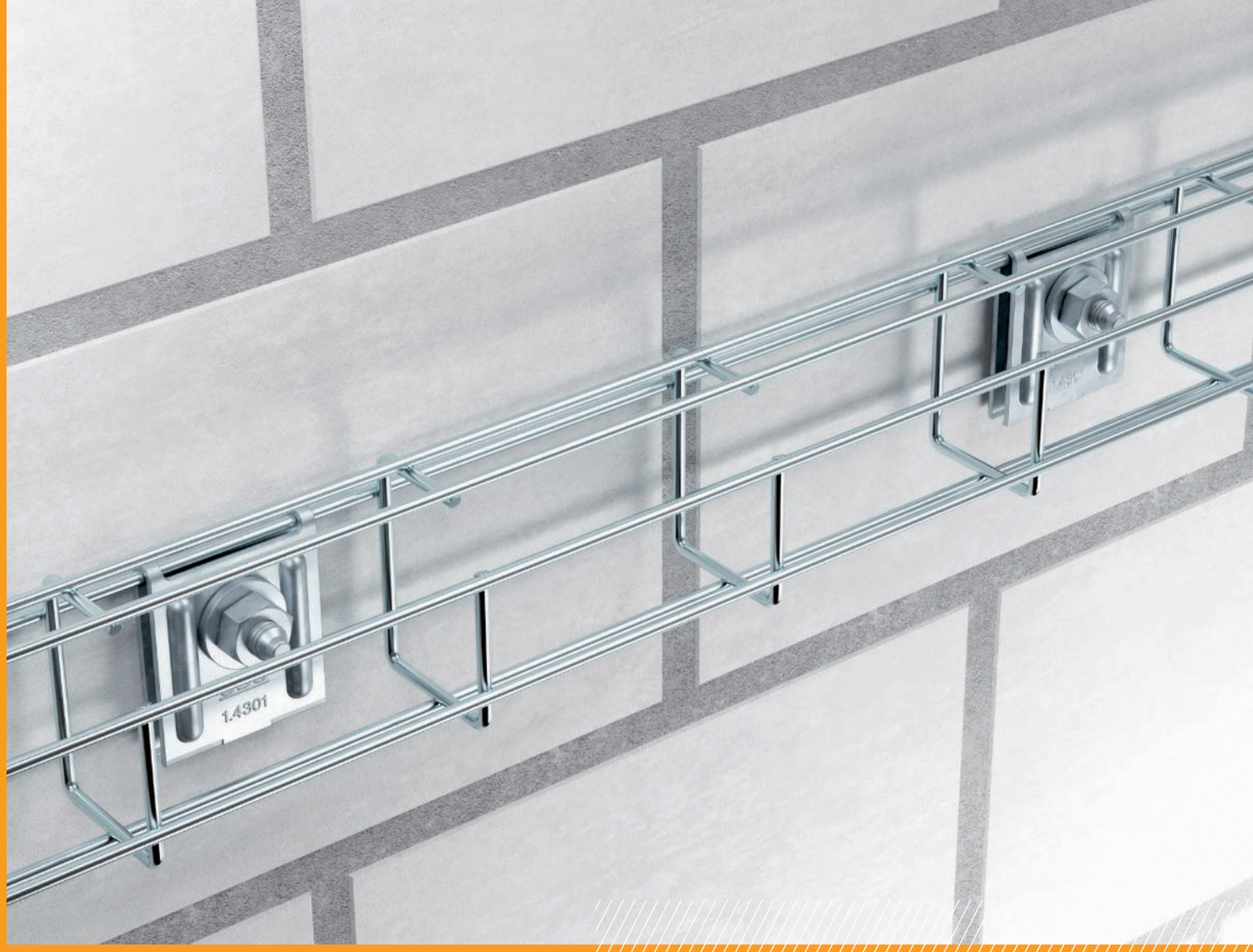
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 A2	0.95	0.6	0.35
CGR 50 100 A2	0.95	0.6	0.35
CGR 50 200 A2	1.1	0.7	0.4
CGR 50 300 A2	1.1	0.7	0.4
CGR 50 400 A2	1.1	0.7	0.4

Load diagram, C mesh cable tray CGR 50 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

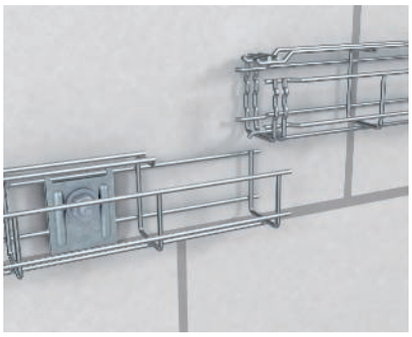
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



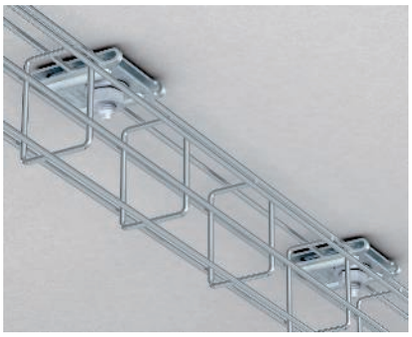
Magic G mesh cable tray

The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable tray system as well. Even in false ceiling mounting, it is an ideal alternative through direct wall or ceiling mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.

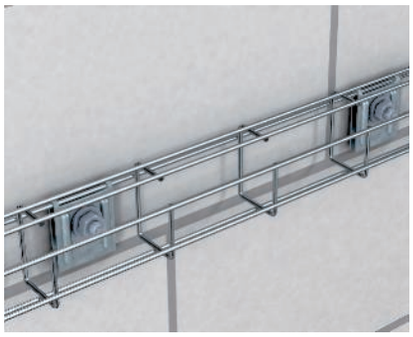
Mounting aid



Straight connection of G Magic mesh cable tray
Creation of a screwless straight connection of the G mesh cable tray, type G GRM, by interconnecting two stock lengths.



Direct ceiling mounting
Direct ceiling mounting of the Magic G mesh cable tray using the hold-down clamp, type K 12 1818.



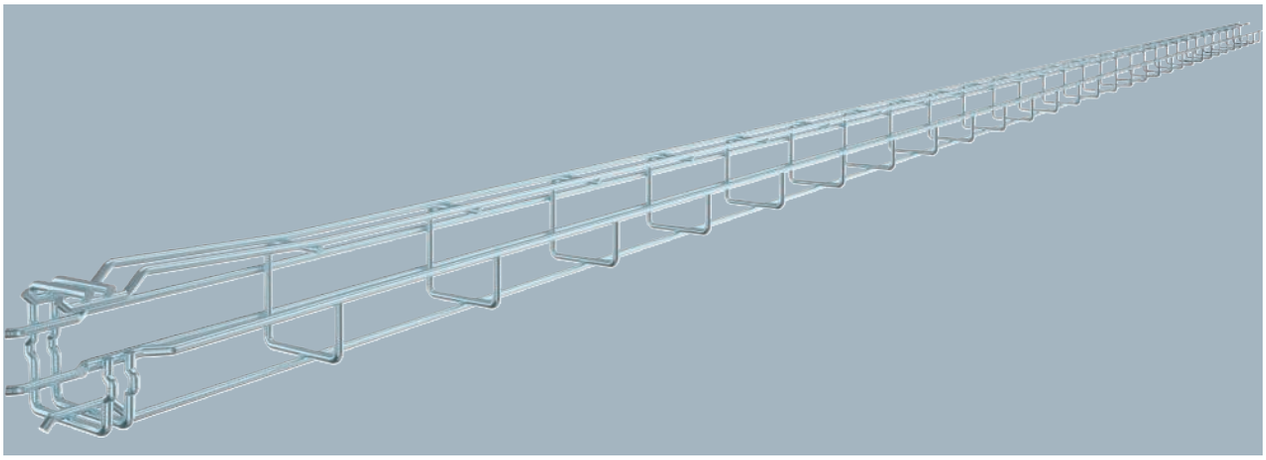
Wall mounting of G mesh cable trays
Wall mounting of G mesh cable trays with wall bracket, type K 12 1818.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 50

St G

G mesh cable tray Magic® 50



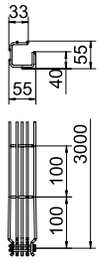
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 G	50	3.9		3	67.067	**6005535**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

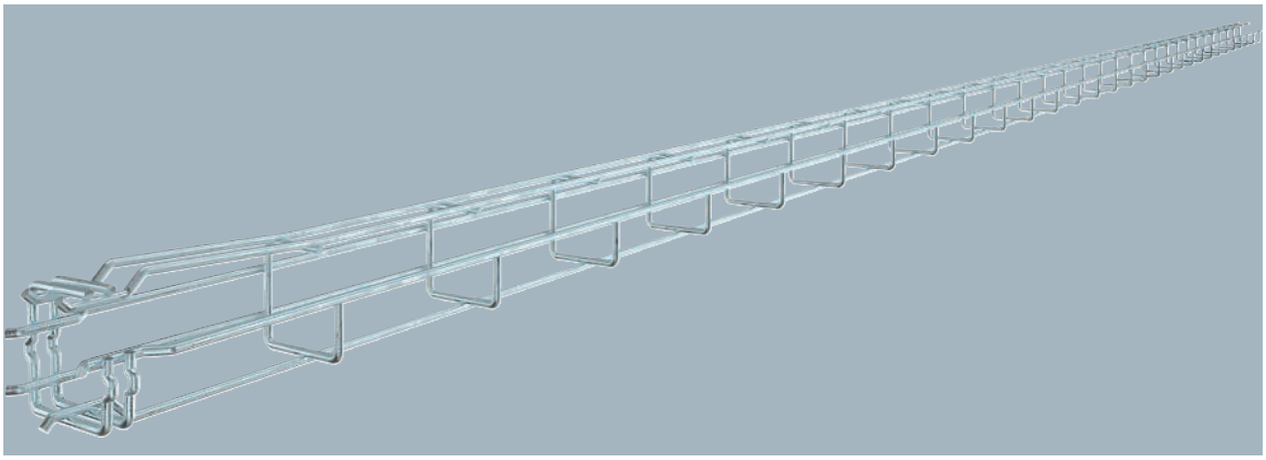
Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 G	3000	55	55	33	38

Dimensions



St FT

G mesh cable tray Magic® 50

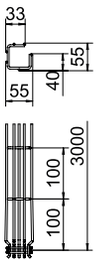


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 FT	50	3.9		3	68.567	**6005520**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 FT	3000	55	55	33	38

Load

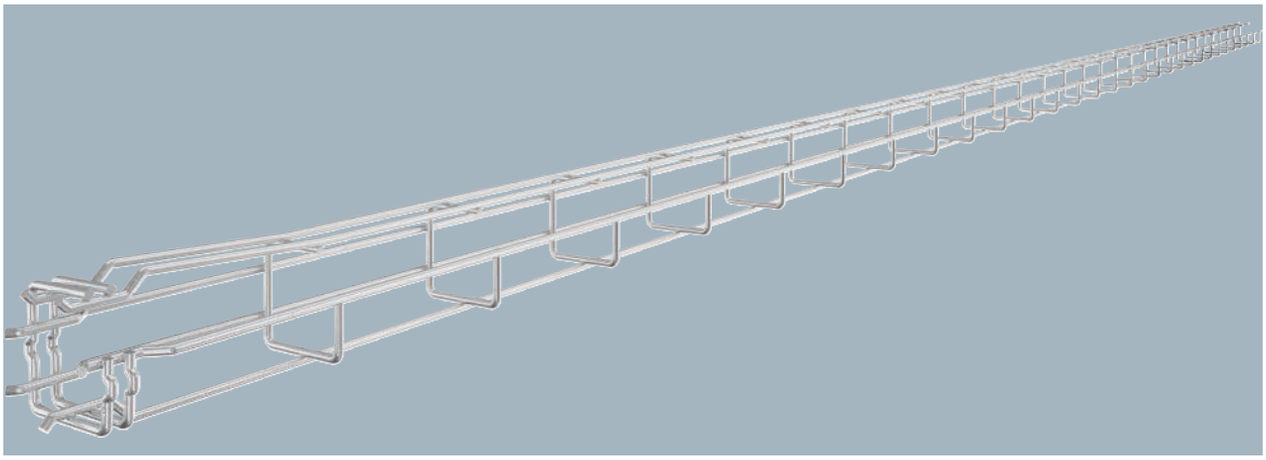
G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 50

G mesh cable tray Magic® 50

VA 2B



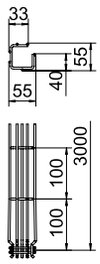
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A2	50	3.9		3	66.567	**6005550**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A2	3000	55	55	33	38

Dimensions

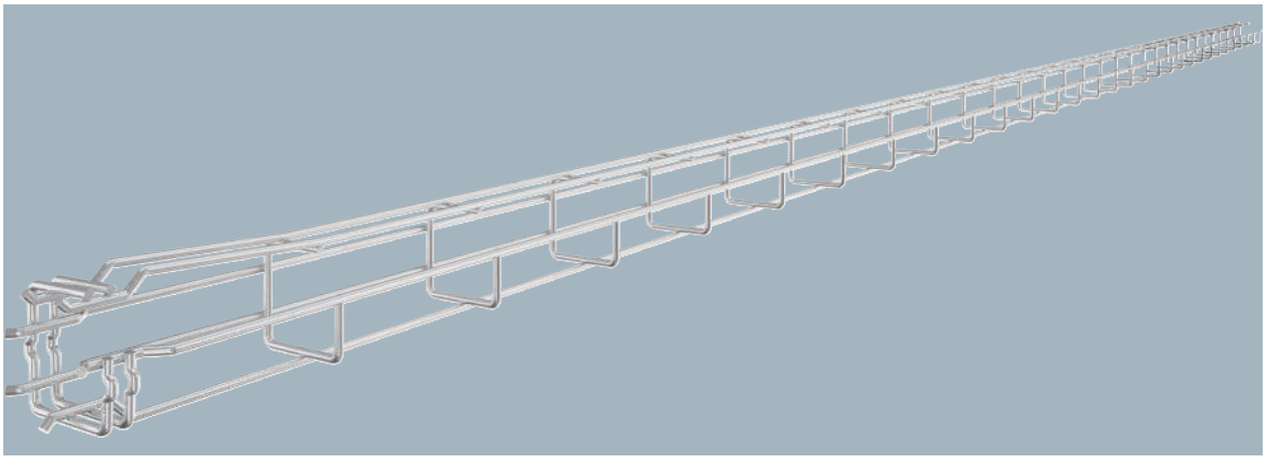


Load

G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

VA 2B

G mesh cable tray Magic® 50

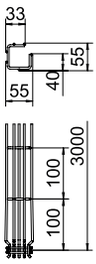


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A4	50	3.9		3	66.333	**6005565**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A4	3000	55	55	33	38

Load

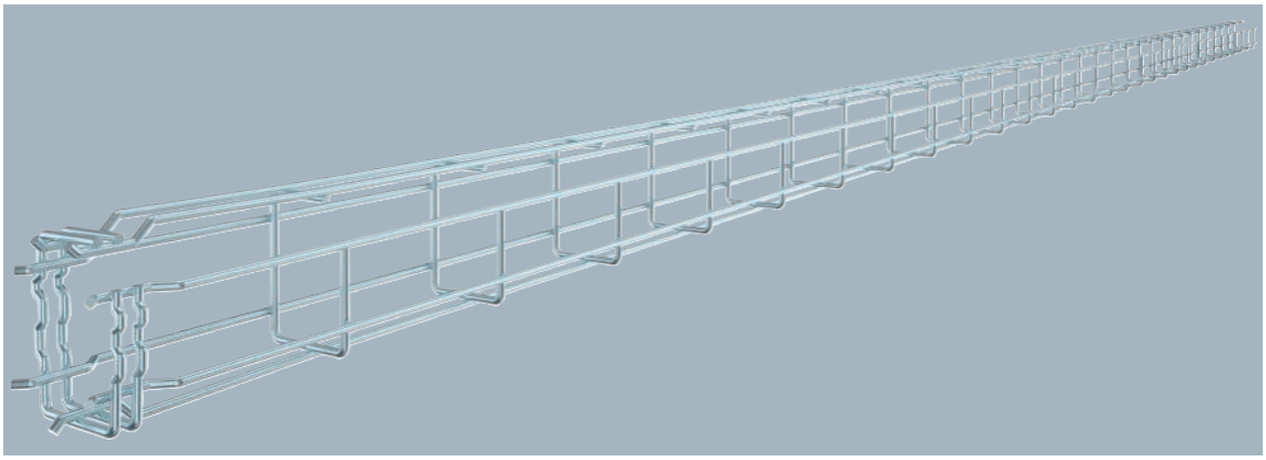
G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 75

G mesh cable tray Magic® 75

St G



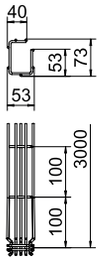
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 G	75	3.9		3	79.867	**6005538**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 G	3000	53	73	38	53

Dimensions

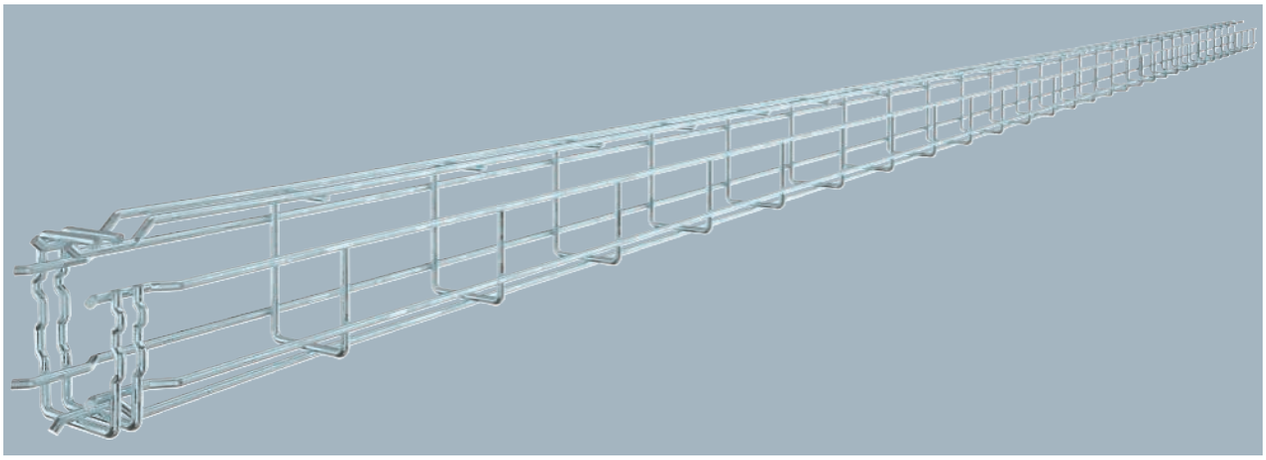


Load

G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

St FT

G mesh cable tray Magic® 75

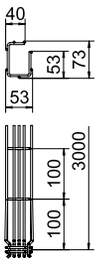


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 FT	75	3.9		3	83.700	**6005523**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 FT	3000	53	73	38	53

Load

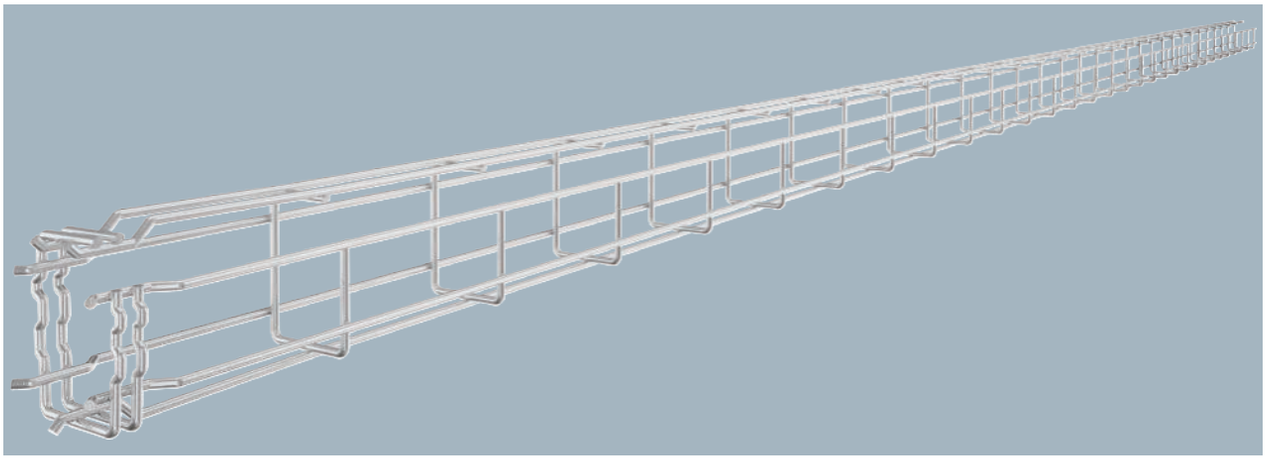
G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 75

G mesh cable tray Magic® 75

VA 2B



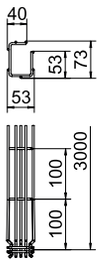
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A2	75	3.9		3	79.467	**6005553**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A2	3000	53	73	38	53

Dimensions

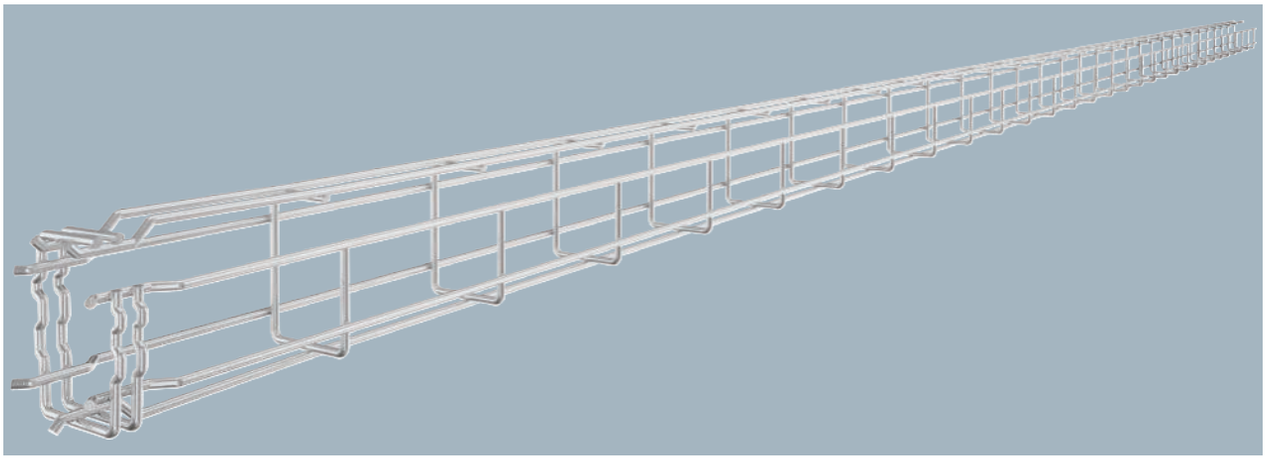


Load

G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

VA 2B

G mesh cable tray Magic® 75

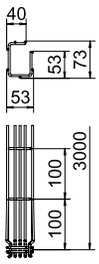


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A4	75	3.9		3	79.467	**6005568**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A4	3000	53	73	38	53

Load

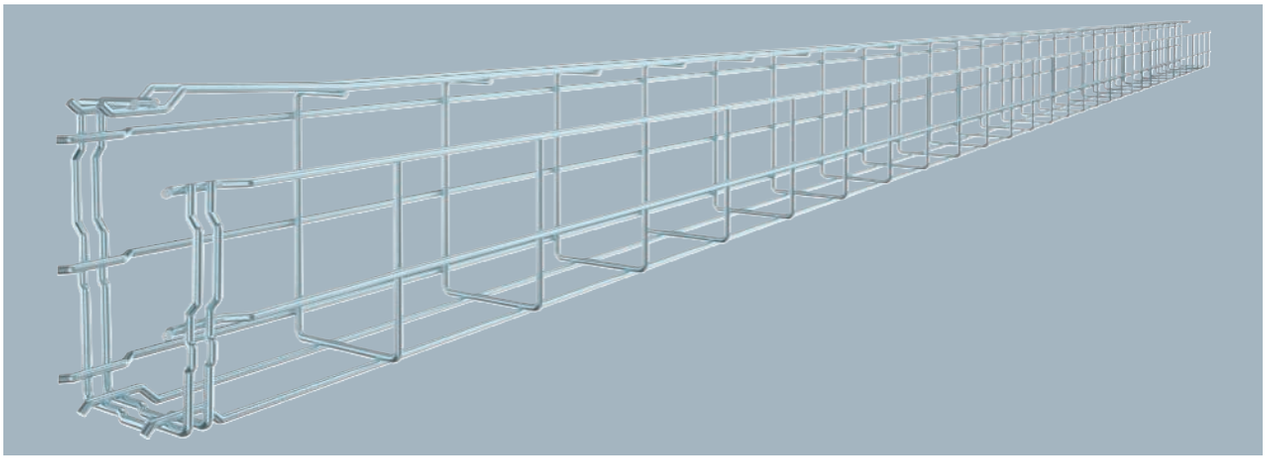
G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 125

St G

G mesh cable tray Magic® 125



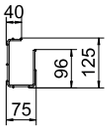
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 G	125	3.9		3	108.000	**6005541**

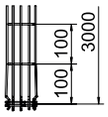
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 G	3000	75	125	38	96

Dimensions



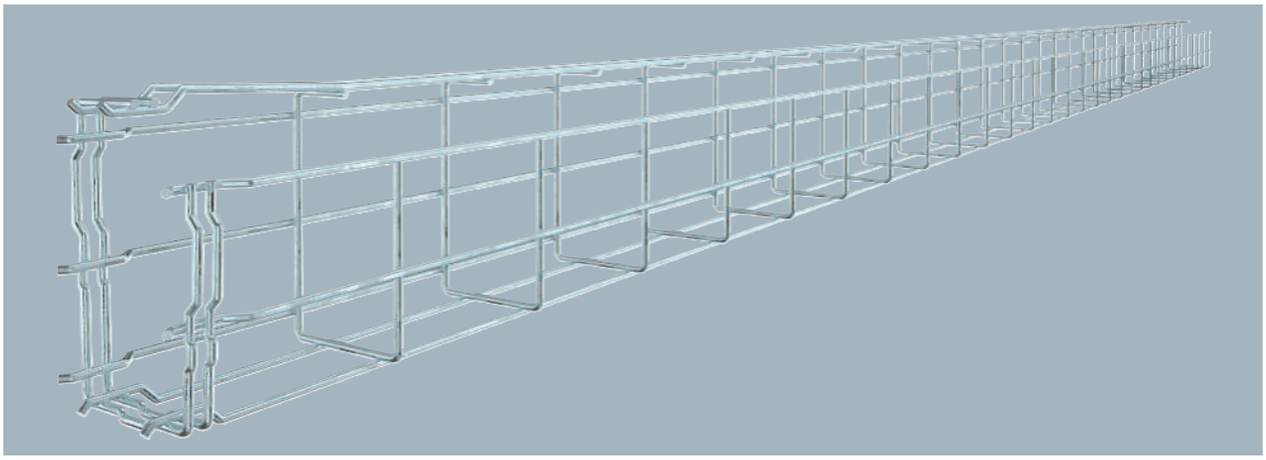


Load

G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

St FT

G mesh cable tray Magic® 125

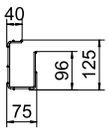


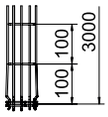
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 FT	125	3.9		3	113.667	**6005526**

Dimensions





Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 FT	3000	75	125	38	96

Load

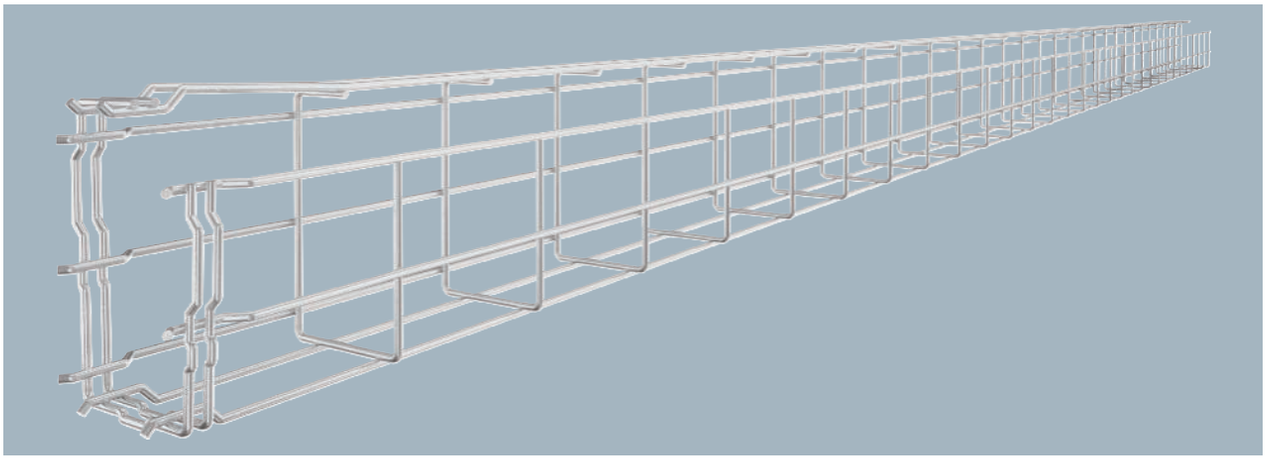
G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 125

G mesh cable tray Magic® 125

VA 2B



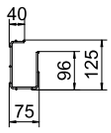
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A2	125	3.9		3	108.000	**6005556**

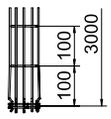
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A2	3000	75	125	38	96

Dimensions



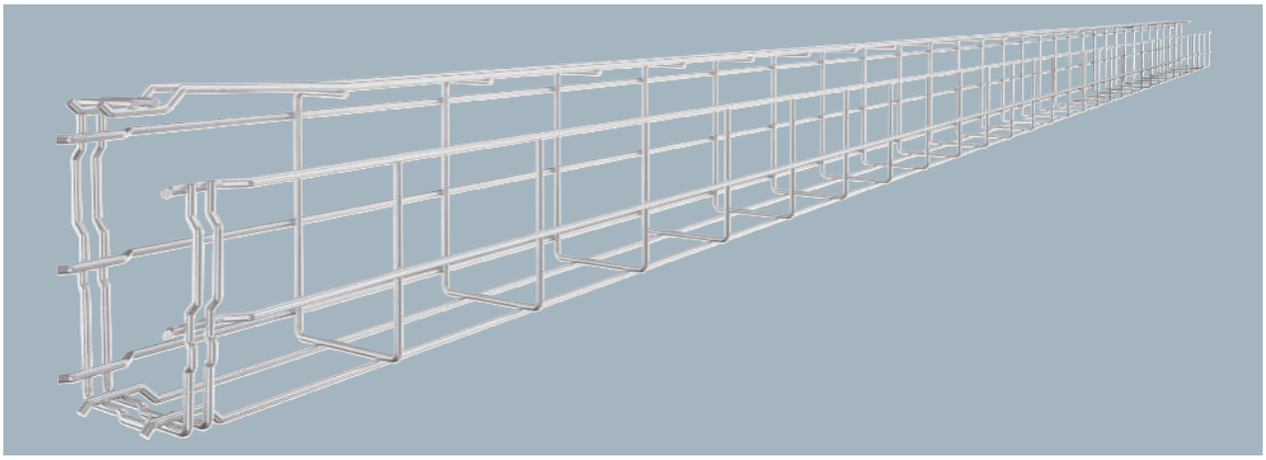


Load

G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

VA 2B

G mesh cable tray Magic® 125

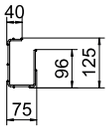


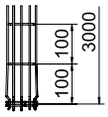
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A4	125	3.9		3	108.000	**6005571**

Dimensions





Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A4	3000	75	125	38	96

Load

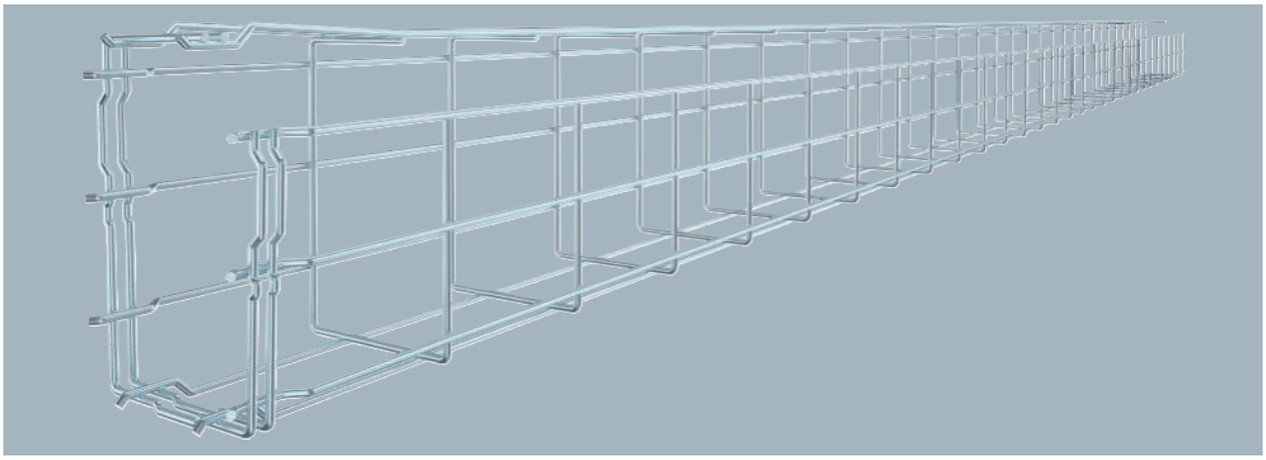
G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 150

St G

G mesh cable tray Magic® 150



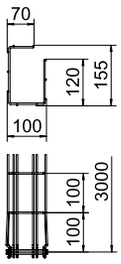
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 G	150	3.9		3	127.333	**6005544**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 G	3000	100	155	68	120

Dimensions

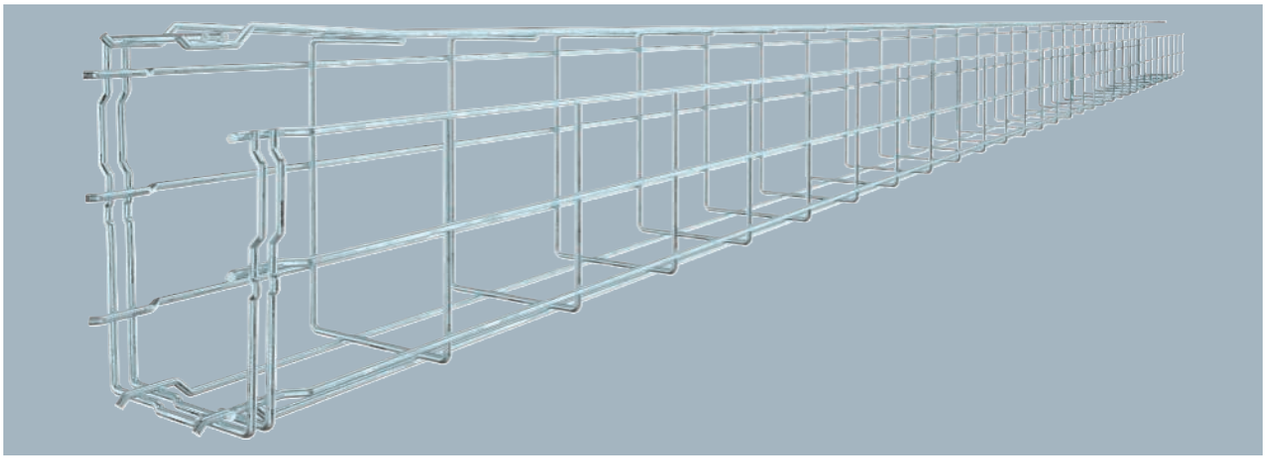


Load

G-GRM 150/100				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

St FT

G mesh cable tray Magic® 150

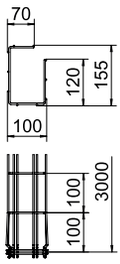


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 FT	150	3.9		3	134.033	**6005529**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 FT	3000	100	155	68	120

Load

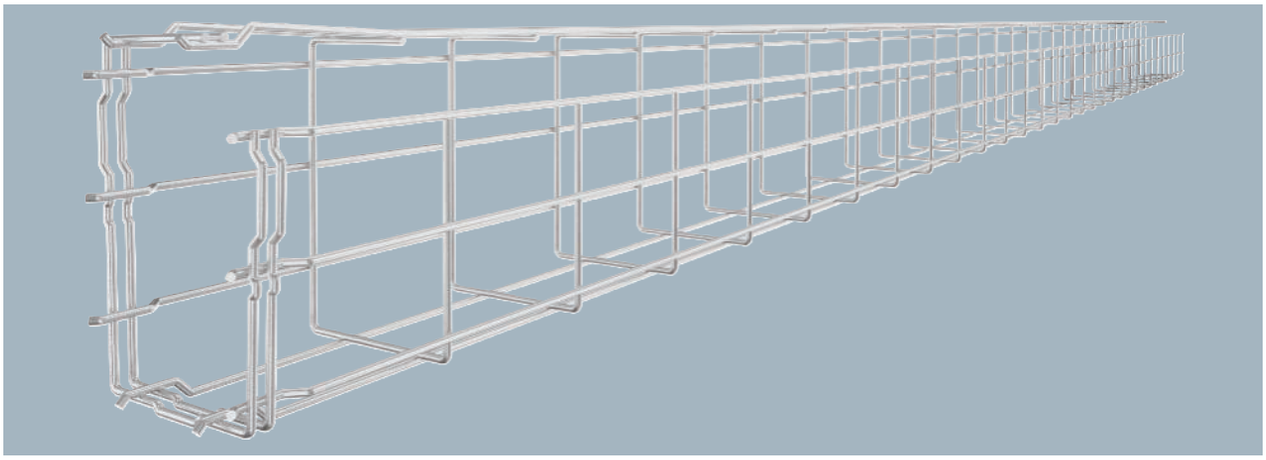
G-GRM 150/100				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

G mesh cable trays, side height 150

G mesh cable tray Magic® 150

VA 2B



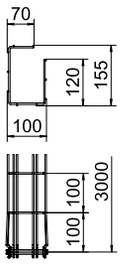
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A2	150	3.9		3	127.067	**6005559**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A2	3000	100	155	68	120

Dimensions

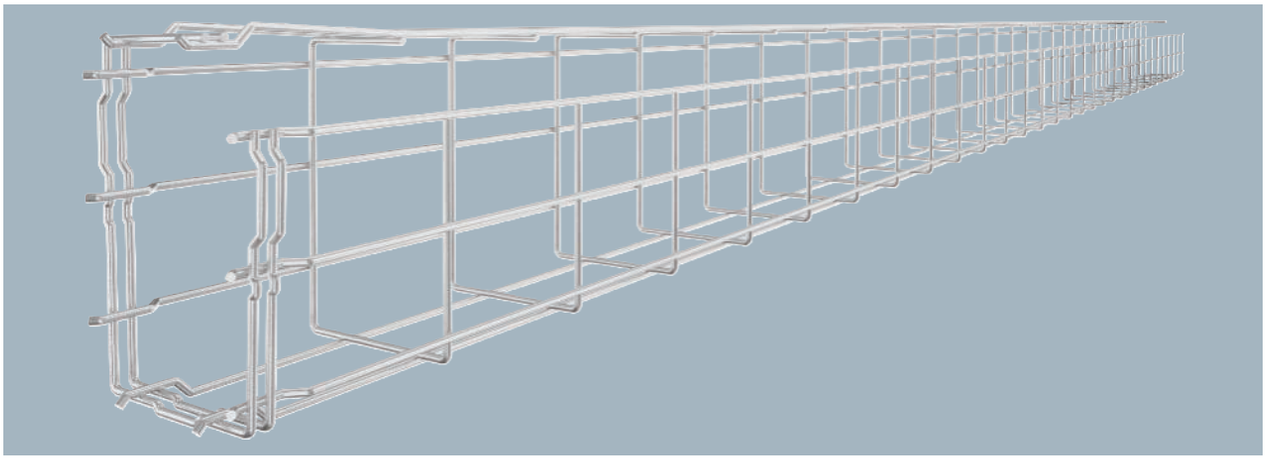


Load

G-GRM 150/100				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

VA 2B

G mesh cable tray Magic® 150

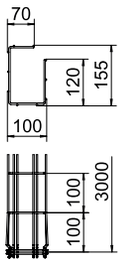


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A4	150	3.9		3	127.260	**6005574**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A4	3000	100	155	68	120

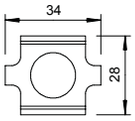
Load

G-GRM 150/100				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Joint connector GSV 34

St G



Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 G		20	3.155	**6016596**

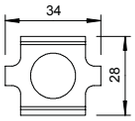
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34

St FT



Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 FT		20	3.150	**6016634**

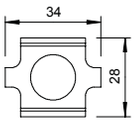
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

Joint connector GSV 34

VA VA 2B



Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2		20	2.572	**6016642**
GSV 34 A4		20	3.000	**6016648**

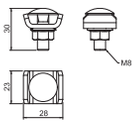
Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.
50-150 mm = 2 units
200-300 mm = 3 units
400-450 mm = 4 units
500-600 mm = 5 units

Including screw of type FRS M6 x 20.

GUV 6 joint connector

St FT



Type		Pack Piece	Weight kg/100 pc.	Item no.
GUV 6 FT		20	4.226	**6016573**

Joint connector for mesh cable tray, type SGR.

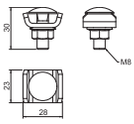
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M8 x 25 bolt with flange nut.

VA 2B

GUV 6 joint connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
GUV 6 A2	20	4.154	6016574



Joint connector for mesh cable tray, type SGR.

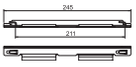
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M8 x 20 bolt with flange nut.

St FS DD

GRV 245 mesh cable tray connector, long

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
GRV 245 FS	30	20	13.500	6016680
GRV 245 DD	30	20	13.500	6016684



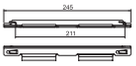
Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Two straight connectors, type GRV 245, are used for each connection point.
Can be used from a mesh cable tray width of 100 mm.
The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

VA 2B

GRV 245 mesh cable tray connector, long

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
GRV 245 A4	30	20	13.500	6016688



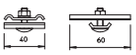
Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

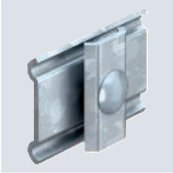
Two straight connectors, type GRV 245, are used for each connection point.
Can be used from a mesh cable tray width of 100 mm.
The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

St FT

K 11/262 side connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
K 11 262 FT	25	7.500	6015107





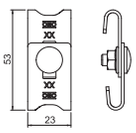
Screwed version of joint connector for mesh cable trays.

Including screw of type FRS M6 x 20.

St G

GEV 36 corner connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 G	20	3.040	6016715



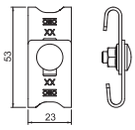
Including FRS M6 x 12 bolt with flange nut.

Corner connector for the creation of mesh cable tray bend elements.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

GEV 36 corner connector

St FT

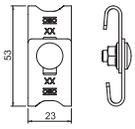


Type		Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 FT		20	3.160	6016723

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector

VA VA 2B

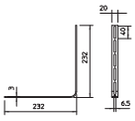


Type		Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 A2		20	3.040	6016731
GEV 36 A4		10	3.040	6016764

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

Slotted steel strap, bent

St FT

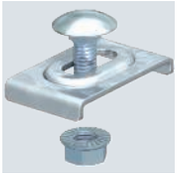


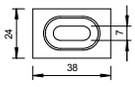
Type	Dimension mm		Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3		25	15.800	6017371

Bent slotted steel strap for creation of bends and tees.

GKT 38 clamping piece

St G



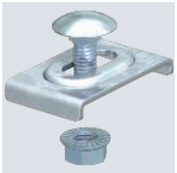


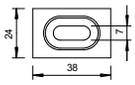
Type		Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G		20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

St FT





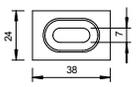
Type		Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT		20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

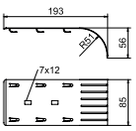


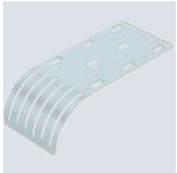
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

St FS FT

Drop-out plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KAB GR FS	10	14.100	6220139
KAB GR FT	10	14.100	6220142



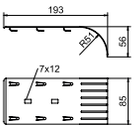


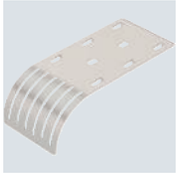
The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

VA 2B

Drop-out plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KAB GR A2	10	14.100	6220145



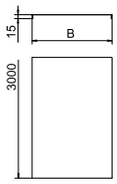


The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.

St FS

Cover for mesh cable tray, latchable

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FS	50	0.75	3000	3	46.333	6001840
DGRR 100 FS	98	0.75	3000	3	73.333	6001842
DGRR 150 FS	148	0.75	3000	3	102.667	6001844
DGRR 200 FS	198	0.75	3000	3	132.333	6001846
DGRR 300 FS	298	0.75	3000	3	191.000	6001848
DGRR 400 FS	398	0.75	3000	3	250.000	6001850
DGRR 500 FS	498	0.75	3000	3	309.000	6001852
DGRR 600 FS	598	0.75	3000	3	370.000	6001854

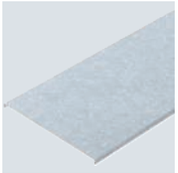


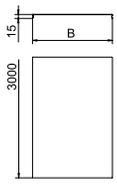
With transverse bead from 400 mm width.
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for interior areas without particular requirements.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for mesh cable tray, latchable

St FT





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FT	50	0.75	3000	3	52.333	**6001820**
DGRR 100 FT	98	0.75	3000	3	83.000	**6001822**
DGRR 150 FT	148	0.75	3000	3	116.333	**6001824**
DGRR 200 FT	198	0.75	3000	3	149.667	**6001826**
DGRR 300 FT	298	0.75	3000	3	216.333	**6001828**
DGRR 400 FT	398	0.75	3000	3	282.667	**6001830**
DGRR 500 FT	498	0.75	3000	3	349.667	**6001832**
DGRR 600 FT	598	0.75	3000	3	418.000	**6001834**

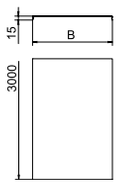
With transverse bead from 400 mm width.

Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for industrial areas such as mechanical engineering.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Cover for mesh cable tray, latchable

VA 2B



Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 A2	50	0.80	3000	3	47.333	**6001860**
DGRR 100 A2	97	0.80	3000	3	78.333	**6001862**
DGRR 150 A2	148	0.80	3000	3	109.667	**6001864**
DGRR 200 A2	198	0.80	3000	3	141.000	**6001866**
DGRR 300 A2	298	0.80	3000	3	203.667	**6001868**
DGRR 400 A2	398	0.80	3000	3	266.333	**6001870**
DGRR 500 A2	498	0.80	3000	3	329.333	**6001872**
DGRR 600 A2	598	0.80	3000	3	393.333	**6001874**

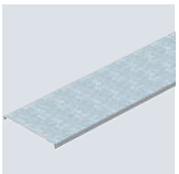
With transverse bead from 400 mm width.

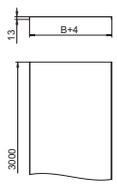
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Unperforated cover

St FS DD





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	**6052056**
DRLU 100 FS	100	1.00	3000	3	99.000	**6052103**
DRLU 150 FS	150	1.00	3000	3	138.267	**6052153**
DRLU 200 FS	200	1.00	3000	3	177.500	**6052210**
DRLU 300 FS	300	1.00	3000	3	256.000	**6052307**
DRLU 400 FS	400	1.00	3000	3	334.500	**6052405**
DRLU 500 FS	500	1.50	3000	3	619.234	**6052512**
DRLU 550 FS	550	1.50	3000	3	678.100	**6052571**
DRLU 600 FS	600	1.50	3000	3	737.000	**6052609**
DRLU 050 DD	50	1.00	3000	3	59.770	**6052640**
DRLU 100 DD	100	1.00	3000	3	99.000	**6052643**
DRLU 150 DD	150	1.00	3000	3	138.267	**6052647**
DRLU 200 DD	200	1.00	3000	3	177.500	**6052650**
DRLU 300 DD	300	1.00	3000	3	256.000	**6052656**
DRLU 400 DD	400	1.00	3000	3	334.500	**6052662**
DRLU 500 DD	500	1.50	3000	3	619.234	**6052668**
DRLU 550 DD	550	1.50	3000	3	678.100	**6052671**
DRLU 600 DD	600	1.50	3000	3	737.000	**6052674**

Cover for cable trays and mesh cable trays.

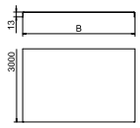
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

VA VA 2B

Unperforated cover

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	**6052821**
DRLU 100 A2	100	1.00	3000	3	99.000	**6052824**
DRLU 150 A2	150	1.00	3000	3	138.234	**6052828**
DRLU 200 A2	200	1.00	3000	3	177.500	**6052831**
DRLU 300 A2	300	1.00	3000	3	256.000	**6052834**
DRLU 400 A2	400	1.00	3000	3	334.500	**6052837**
DRLU 500 A2	500	1.50	3000	3	619.167	**6052841**
DRLU 600 A2	600	1.50	3000	3	736.900	**6052844**
DRLU 100 A4	100	1.00	3000	3	99.000	**6052991**
DRLU 200 A4	200	1.00	3000	3	177.500	**6052993**
DRLU 300 A4	300	1.00	3000	3	256.000	**6052994**
DRLU 400 A4	400	1.00	3000	3	334.500	**6052995**
DRLU 500 A4	500	1.25	3000	3	619.167	**6052996**
DRLU 600 A4	600	1.25	3000	3	736.900	**6052998**



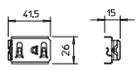
Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

Clamping pieces

VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	**6062282**

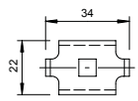


Hold-down clamp for fastening separating retainer in mesh cable trays.

St G

GKS 34 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 G	20	2.188	**6016855**

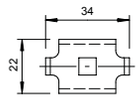


Including FRS M6 x 20 bolt with flange nut.
Clamp for fixing mesh cable trays to wall or support brackets.

St FT

GKS 34 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 FT	20	2.021	**6016820**



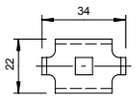
Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Clamping pieces

GKS 34 hold-down clamp

VA VA 2B

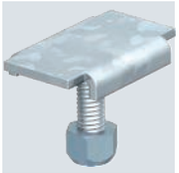


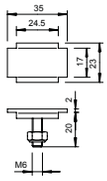
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 A2	20	2.000	6016839
GKS 34 A4	10	1.976	6016859

Including FRS M6 x 20 bolt with nut and washer.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.

KS 23/35 hold-down clamp

St FT



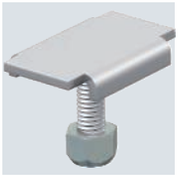


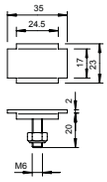
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 FT	100	2.015	6015174

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.

KS 23/35 hold-down clamp

VA 2B



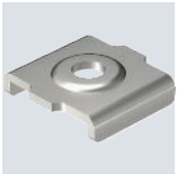


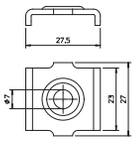
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 A2	20	2.015	6016529

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.

GKB 34 hold-down clamp

St G



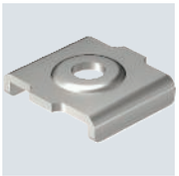


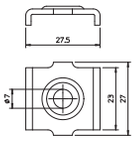
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 G	20	1.105	6016674

Clamp for fastening mesh cable trays of width 50 mm to the floor.

GKB 34 hold-down clamp

VA 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 A2	20	1.105	6016676

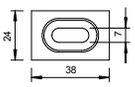
Clamp for fastening mesh cable trays of width 50 mm to the floor.

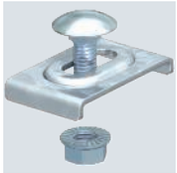
St G

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



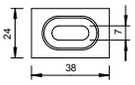


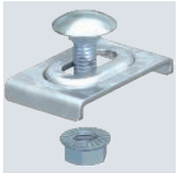
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



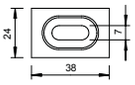


VA VA 2B

GKT 38 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045
GKT 38 A4	10	2.200	6017092

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

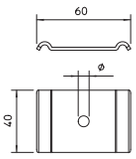


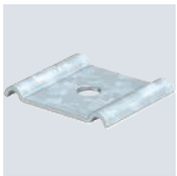
St FS FT

GKS 50 hold-down clamp

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 07 FS	7	50	3.522	6015263
GKS 50 11 FS	11	50	4.000	6015276
GKS 50 07 FT	7	50	4.100	6015271
GKS 50 11 FT	11	50	4.100	6015278

Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.



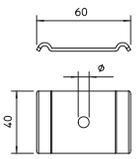


VA 2B

Hold-down clamp GKS 50

Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 07 A4	7	50	4.000	6015310
GKS 50 11 A4	11	20	4.000	6015280

Use on mesh cable trays with 50 x 100 mm grid only.
Clamp for fastening mesh cable trays.

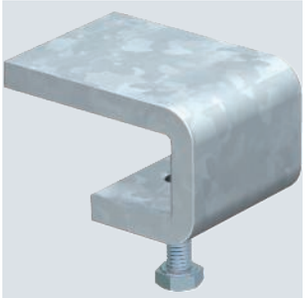


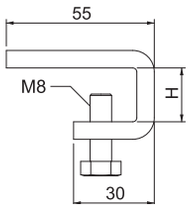
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Clamping pieces

Beam clamp

St FT





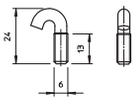
Type	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
KL 20 FT	20	10	19.000	**6003850**
KL 30 FT	30	10	22.500	**6003869**

When selecting the beam clamp, please take the flange thickness of the steel girder into account.

Beam clamp for fastening the mesh bracket, type GW 40 80 to steel girders.

HS M6 hook screw

A2 A4 2B

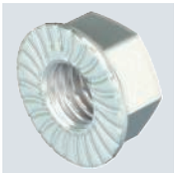


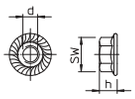
Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
HS M6x13 A2	M6	100	0.573	**1154990**
HS M8x60 A4	M8	25	2.330	**1154975**

Hook screw for fastening cable tracks on the bracket.

Combination nut

VA





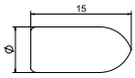
Type	Dim. d mm	Dim. h mm	SW mm	Resist-ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M8 A4	8	8	13	A4-70	100	0.800	**6408920**
KM M10 A4	10	10	17	A4-70	100	1.320	**6408930**
KM M12 A4	12	12	19	A4-70	100	2.260	**6408940**
KM M6 A4	6	6	10	A4-70	100	0.315	**6408970**

Combination nut with washer based on EN 1661.

End caps

Protective caps

PVC



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
GR KS 3.9 OR	Pure orange	500	0.045	**6003750**
GR KS 4.8 OR	Pure orange	500	0.030	**6003754**

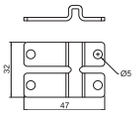
Protective cap to cover cut wire ends of mesh cable trays.

St FT

Wall clamp and central hanger

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
WB GR FT	For wire thickness 6.0 mm	20	2.540	**6017160**

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

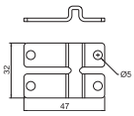


VA 2B

Wall clamp and central hanger

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
WB GR A4	For wire thickness 6.0 mm	20	2.423	**6017164**

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

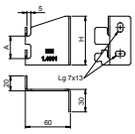


VA 2B

WBH CGR50 wall holder, horizontal

Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBH CGR50 A2	30	65	25	8.600	**6016411**

Wall holder for horizontal wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.

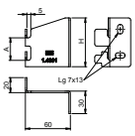


VA 2B

WBV CGR50 wall holder, vertical

Type	Dim. A mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
WBV CGR50 A2	75	110	25	16.000	**6016415**

Wall holder for vertical wall fastening of the C mesh cable tray. Screwless mesh cable tray fastening on the wall holder.



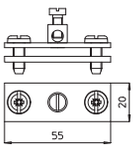
Equipotential bonding and earthing

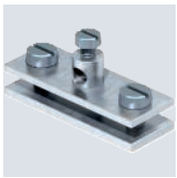
St G

Earthing terminal for cables and flat conductors

Type	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
939	150	25	5.932	**5043107**

- For cables to 16 mm² and flat conductors
- Fit: cable to 16 mm² x max. FL 30
- With riveted brass connection terminal and one cylinder bolt, M5 x 12, with two cylinder bolts, M6 x 16



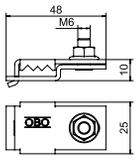


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Equipotential bonding and earthing

Grounding clamp

St FS



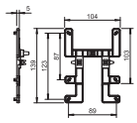
Type	Pack Piece	Weight kg/100 pc.	Item no.
VEK-GRM 3.9 FS	25	3.850	6016694
VEK-GRM 4.8 FS	25	3.800	6016696

The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in GRM mesh cable systems in the area of the joint. This allows fulfilment of the high demands in terms of the transition resistance according to, for example, NEMA and CSA. Furthermore, the connection and earthing terminal is compulsory when used as a protective conductor in a mesh cable tray system (national regulations have to be followed when creating such a system).

Mounting elements, junction box

Fastening element for mesh cable tray

PC

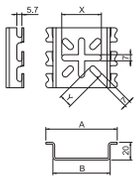


Type	Pack Piece	Weight kg/100 pc.	Item no.
BE TS GR	10	2.300	2007833

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to mesh cable trays quickly and in a few actions.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

Mounting plate for mesh cable tray

St FT

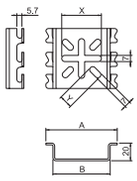


Type	Pack Piece	Weight kg/100 pc.	Item no.
MPG 65 FT	30	9.100	6006486
MPG 90 FT	30	16.800	6006487

Mounting plate for screwless wall fastening of mesh cable trays.

Mounting plate for mesh cable tray

VA 2B



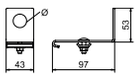
Type	Pack Piece	Weight kg/100 pc.	Item no.
MPG 65 A4	30	8.800	6006488
MPG 90 A4	30	16.100	6006489

Accessories can be fastened to the mounting plate. In addition, the plate can be used for wall brackets.
Mounting plate for screwless wall fastening of mesh cable trays.

Side holder

Side holder for cable gland

St FS



Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
SH KAB 20 FS	20	10	15.000	6015425
SH KAB 25 FS	25	10	14.700	6015433

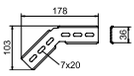
Conduit take-off bracket with punched hole for accepting cable glands.

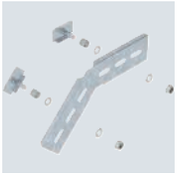
St FT

45° mounting bracket MW 45 SL10

Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 45 SL10 FT	20	21.000	6017320

Each with two clamps of type KS 23 35.
45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



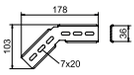


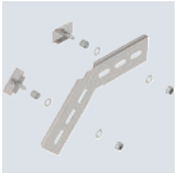
VA 2B

45° mounting angle MW 45 SL10

Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 45 SL10 A2	20	20.000	6017339

Each with two clamps of type KS 23 35.
45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



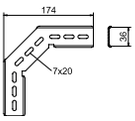


St FT

MW 90 SL 90° mounting bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 90 SL17 FT	20	27.000	6017347
MW 90 SL23 FT	20	35.400	6017355

Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.

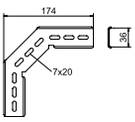


VA 2B

MW 90 SL 90° mounting bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
MW 90 SL17 A2	20	27.000	6016278
MW 90 SL23 A2	20	34.700	6016308

Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



Tool

St

Bolt cutter

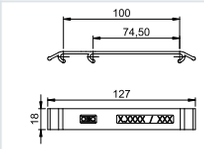
Type	Pack Piece	Weight kg/100 pc.	Item no.
GR BS	1	85.000	6017698

Bolt cutter for cutting mesh cable trays.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Labelling

Identification clip



Type	KS GR LGR	KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Colour	Light grey	Pastel orange	Zinc yellow	Light blue	Signal green
Weight kg/100 pc.	0.769	0.763	0.742	0.763	0.763
Pack Piece	10	10	10	10	10
Item no.	**6017710**	**6017712**	**6017713**	**6017714**	**6017715**

PA Polyamide

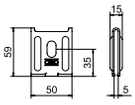
The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

Identification clip for screwless fastening on mesh cable trays.

Holders and fastenings

Wall clamp / central hanger

St FS



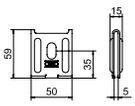
Type	Pack Piece	Weight kg/100 pc.	Item no.
K 12 1818 FS	25	8.772	**6437109**

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.

Wall clamp and central hanger for mesh cable trays.

Wall clamp / central hanger

VA 2B



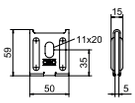
Type	Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A2	25	8.772	**6016421**

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.

Wall clamp and central hanger for mesh cable trays.

Wall clamp / central hanger

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A4	25	8.940	**6016425**

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.

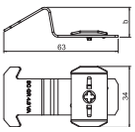
Wall clamp and central hanger for mesh cable trays.

VA 2B

Hold down clip

Type	Dim. b mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
BC GR 4.8 A2	17	For wire thicknesses 3.9 and 4.8 mm	20	1.760	**6016665**

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.

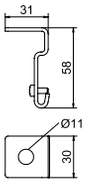


St FS FT

Side holder

Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 FS	50	5.800	**6015336**
SH M10 FT	50	6.000	**6015338**

Side holder for suspension of mesh cable trays.

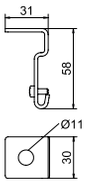


VA 2B

Side holder

Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 A4	20	5.500	**6015340**

Side holder for suspension of mesh cable trays.

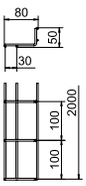


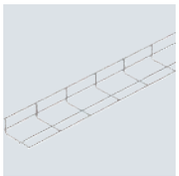
St FT

Mesh angle

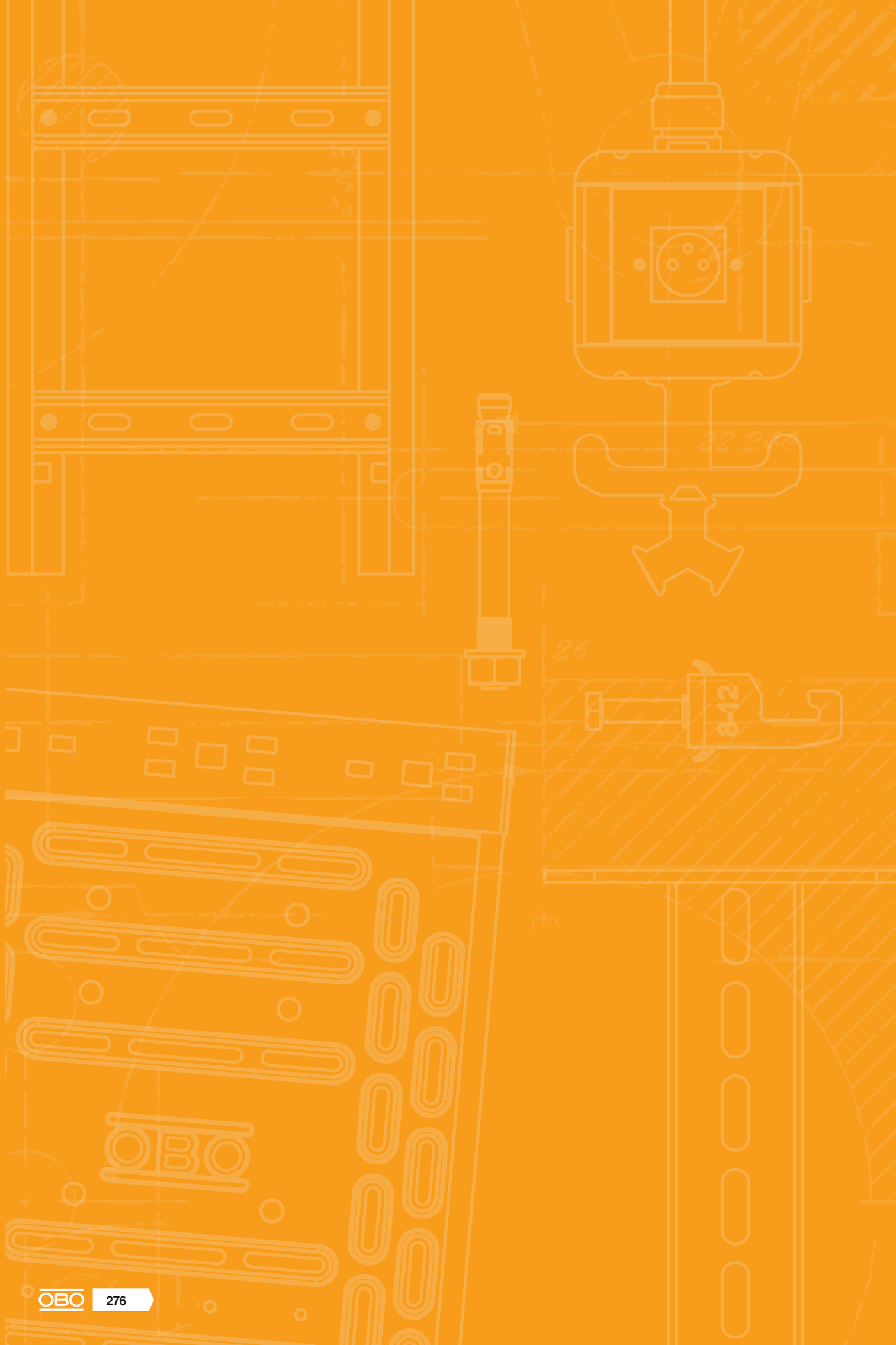
Type	Length mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GW 40 80 FT	2000	4.4	2	63.000	**6003818**

Mesh angle for routing cables in steel girders.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.





Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

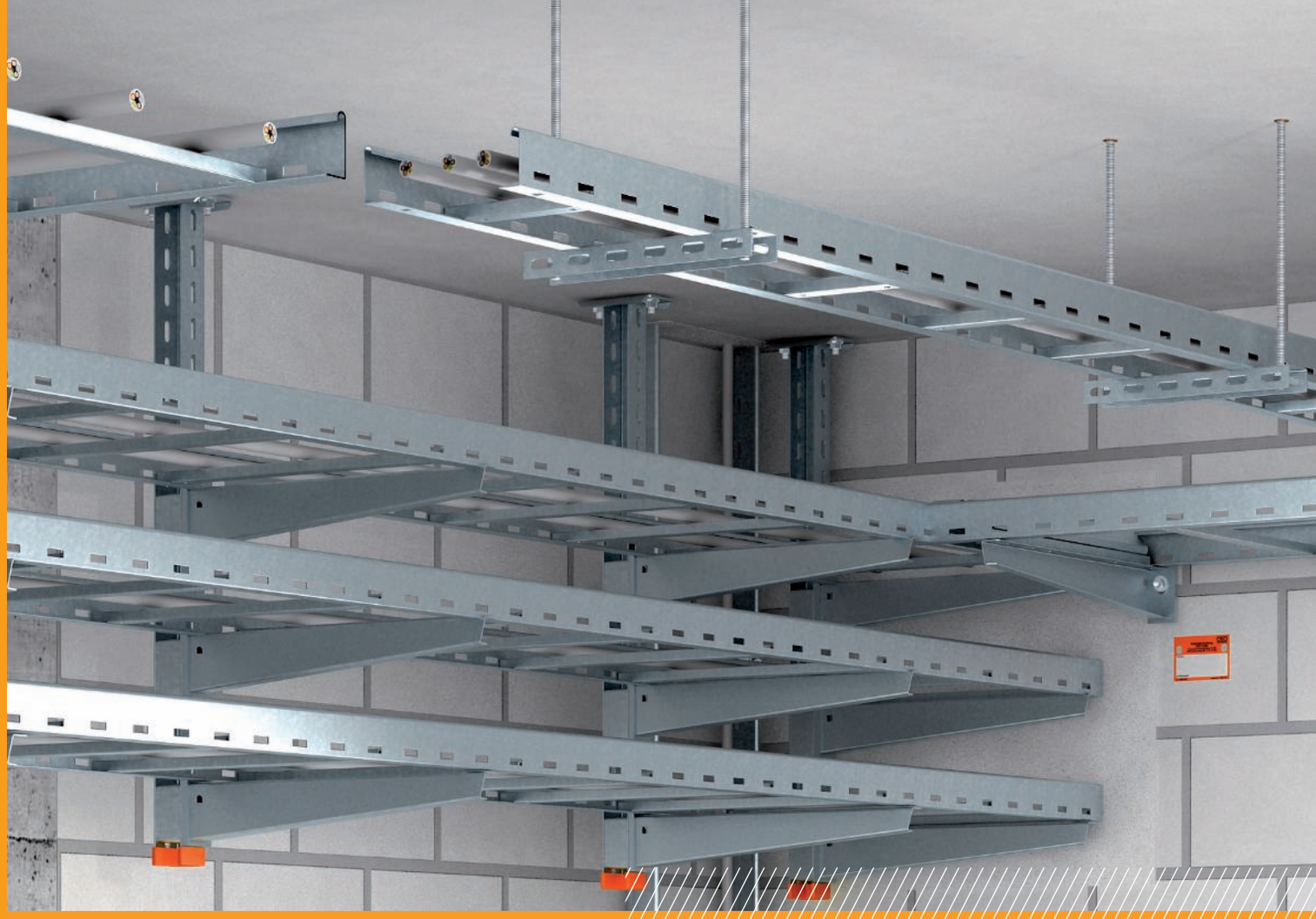


Cable ladder systems

Cable ladders 278

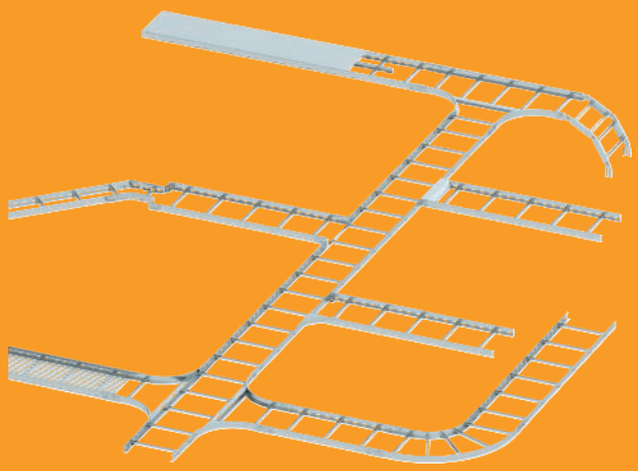
Vertical ladders 326

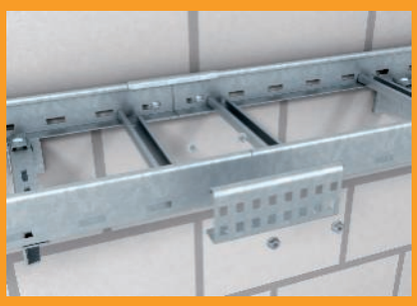
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Riveted cable ladder systems

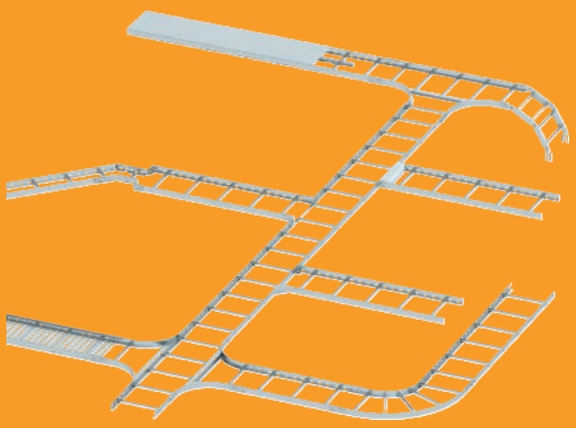
The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





Welded cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.



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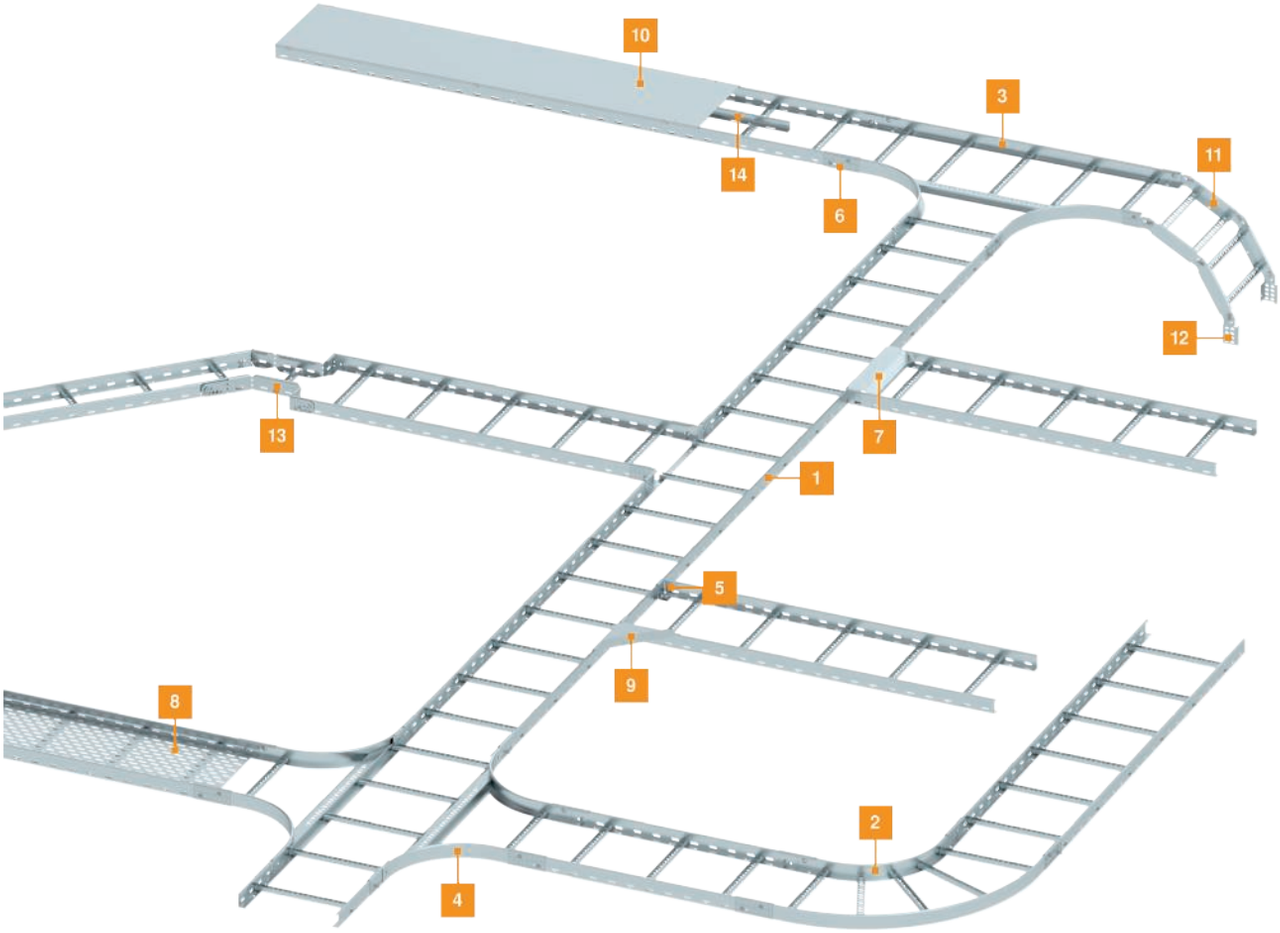
Riveted cable ladder systems

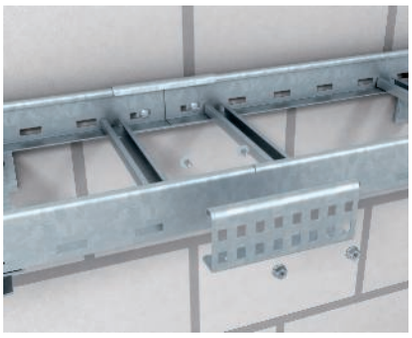
Installation principle



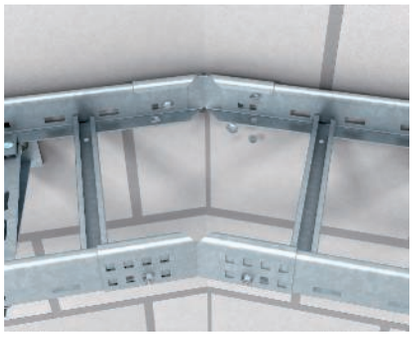
1	Cable ladders	11	Adjustable bend element
2	90° bend, welded	12	Adjustable connector
3	Tee, welded	13	Multifunctional connector
4	Add-on tee, welded	14	Barrier strip
5	Connection piece		
6	Straight connector		
7	Support plate		
8	Insertion plate		
9	Corner plate		
10	Cover with cover clamp		

Mounting aid

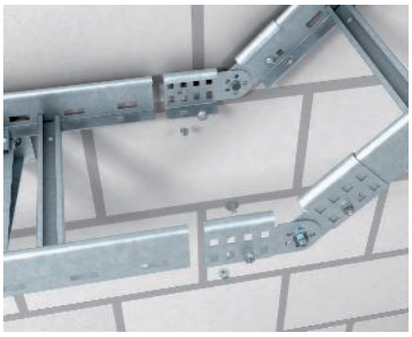
Jump application
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



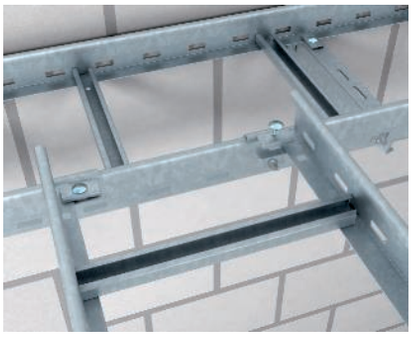
Straight connection of cable ladders
Straight connection of cable ladder with straight connector, type LVG.



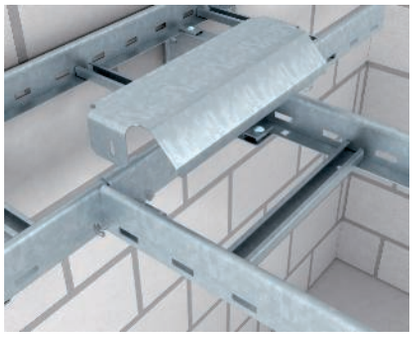
Horizontal angle connection of cable ladders
Horizontal angle connection with straight and angle connectors, type LWVG.



Vertical angle connection of cable ladders
Creation of a vertical angle connection using adjustable connectors, type LGVG.

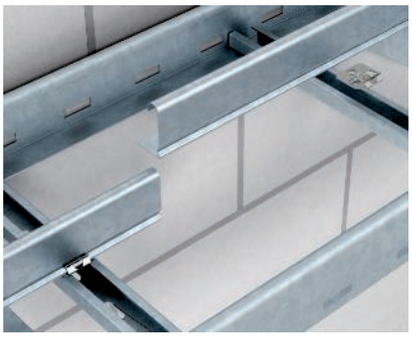


Installation of tee
Creation of a horizontal tee exit of two cable ladders at different heights. The support angle, type LAW, is required to fix two cable ladders.

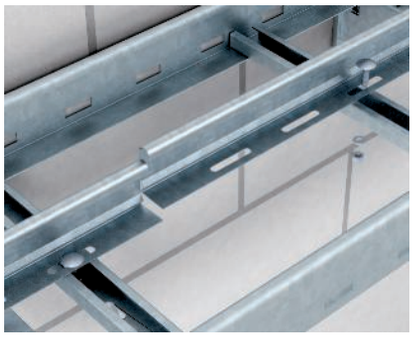


Tee with support plate
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.

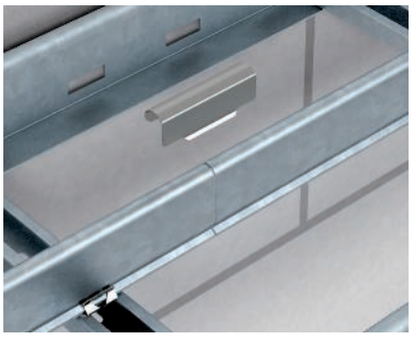
Vertical cable exit
The drop-out plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



Screwless barrier strip fastening
Screwless fastening a barrier strip in cable ladders with clamping piece, type KS KL.



Screwed barrier strip fastening
Screwed mounting of the TSG barrier strip through the perforated rung of the cable ladders.

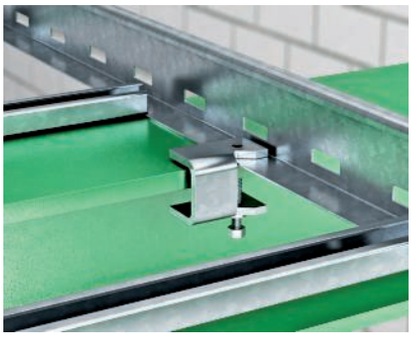


Straight barrier strip connection
Screwless straight connection of barrier strips in cable ladders using the barrier strip TSGV.

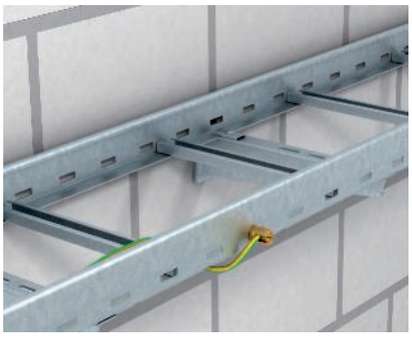
Installation of insert plate
Installation of insert plates, type ELB-L.

Cover mounting
Covers for cable trays and cable ladders can be extended to a locking cover using the cover clamp DK DRLU A2.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



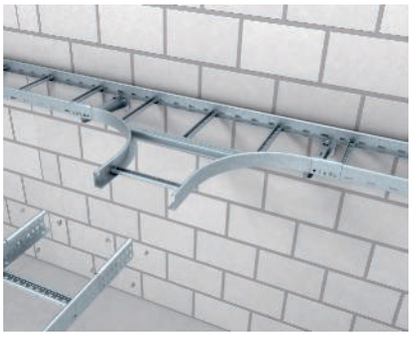
Cable ladder clamping piece
Cable ladder clamping piece KLL for direct mounting of cable ladders to steel girders.



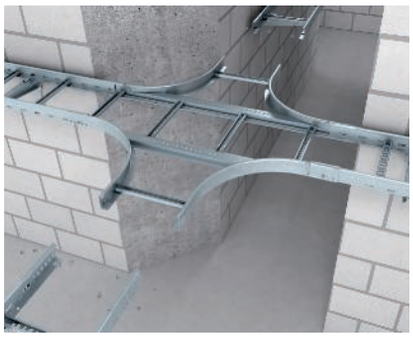
Earthing terminal/earth connection
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

Mounting aid

Adjustable vertical bend
Adjustable bend from adjustable bend elements of the type LGBE with articulated connector for the bridging of height offsets.



Tee
Creation of a one-sided branch with a tee of the type LAA.



Add-on tee, symmetrical
Mounting two add-on tees, type LAA, on a cable ladder as symmetrical cross-over.

Mounting of a tee
Mounting of a tee of the type LT to create a one-sided branch for cable ladders.

90° bend
Connection of two cable ladders at a horizontal 90° angle with a bend, type LB 90.

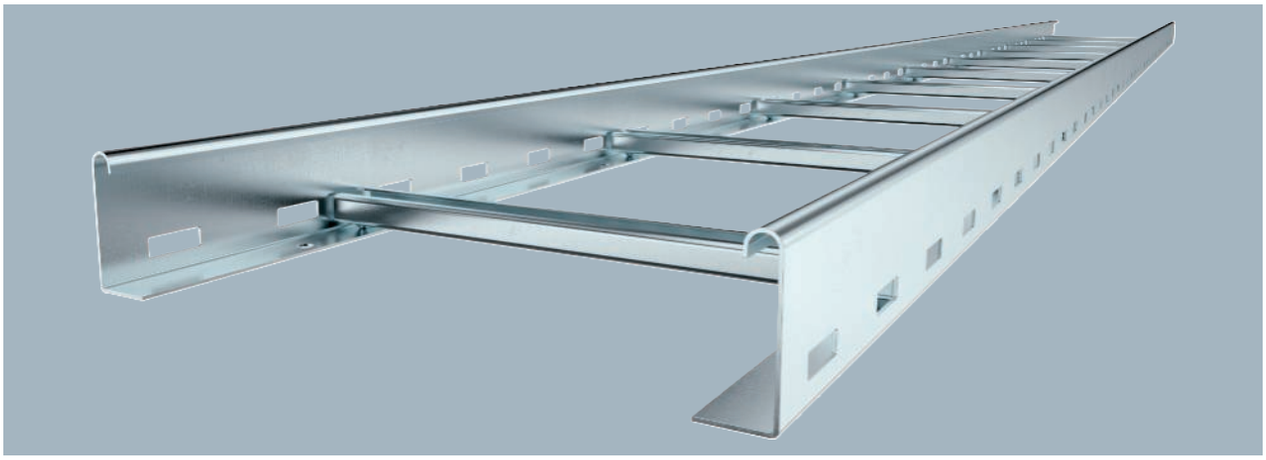
Multifunctional connector for cable ladders
Creation of a one-side branch with a multifunctional connector of the type LMFV.

Multifunctional connector for cable ladders
Creation of a reduction, including 45° angle, using a multifunctional connector, type LMFV.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LCIS 60, 3 m C30

St FS

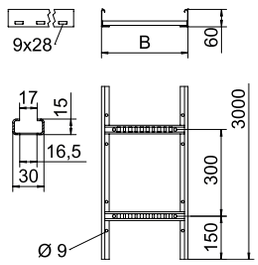


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 3 FS	200	3	266.670	**6209610**
LCIS 630 3 FS	300	3	288.670	**6209612**
LCIS 640 3 FS	400	3	310.340	**6209614**
LCIS 650 3 FS	500	3	332.340	**6209616**
LCIS 660 3 FS	600	3	354.000	**6209618**

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

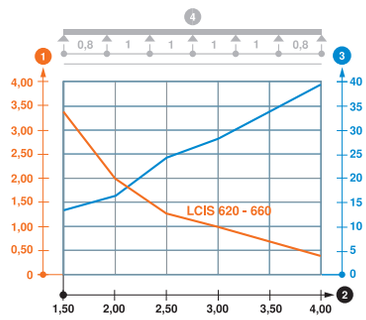
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 3 FS	3000	200	1.5	80	300
LCIS 630 3 FS	3000	300	1.5	120	300
LCIS 640 3 FS	3000	400	1.5	160	300
LCIS 650 3 FS	3000	500	1.5	200	300
LCIS 660 3 FS	3000	600	1.5	240	300

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 3 FS	3.3	2	1.3	1	0.4
LCIS 630 3 FS	3.3	2	1.3	1	0.4
LCIS 640 3 FS	3.3	2	1.3	1	0.4
LCIS 650 3 FS	3.3	2	1.3	1	0.4
LCIS 660 3 FS	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

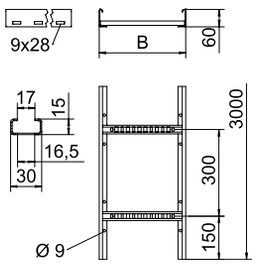
St FT

Cable ladder LCIS 60, 3 m C30

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

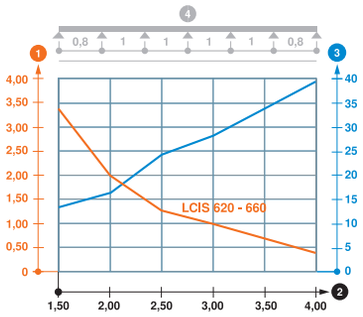
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 3 FT	200	3	283.000	**6209721**
LCIS 630 3 FT	300	3	306.000	**6209723**
LCIS 640 3 FT	400	3	329.340	**6209725**
LCIS 650 3 FT	500	3	352.340	**6209727**
LCIS 660 3 FT	600	3	375.340	**6209729**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 3 FT	3000	200	1.5	80	300
LCIS 630 3 FT	3000	300	1.5	120	300
LCIS 640 3 FT	3000	400	1.5	160	300
LCIS 650 3 FT	3000	500	1.5	200	300
LCIS 660 3 FT	3000	600	1.5	240	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 3 FT	3.3	2	1.3	1	0.4
LCIS 630 3 FT	3.3	2	1.3	1	0.4
LCIS 640 3 FT	3.3	2	1.3	1	0.4
LCIS 650 3 FT	3.3	2	1.3	1	0.4
LCIS 660 3 FT	3.3	2	1.3	1	0.4

Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LCIS 60, 6 m C30

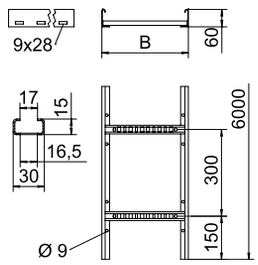
St FS

Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 FS	200	6	267.170	**6209630**
LCIS 630 6 FS	300	6	288.840	**6209632**
LCIS 640 6 FS	400	6	310.670	**6209634**
LCIS 650 6 FS	500	6	332.340	**6209636**
LCIS 660 6 FS	600	6	354.000	**6209638**

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

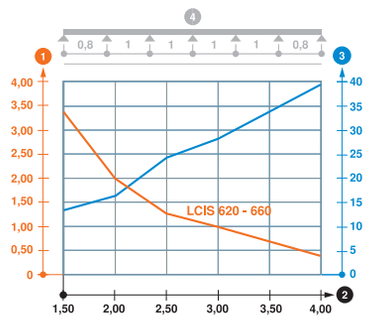
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 6 FS	6000	200	1.5	80	300
LCIS 630 6 FS	6000	300	1.5	120	300
LCIS 640 6 FS	6000	400	1.5	160	300
LCIS 650 6 FS	6000	500	1.5	200	300
LCIS 660 6 FS	6000	600	1.5	240	300

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 FS	3.3	2	1.3	1	0.4
LCIS 630 6 FS	3.3	2	1.3	1	0.4
LCIS 640 6 FS	3.3	2	1.3	1	0.4
LCIS 650 6 FS	3.3	2	1.3	1	0.4
LCIS 660 6 FS	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

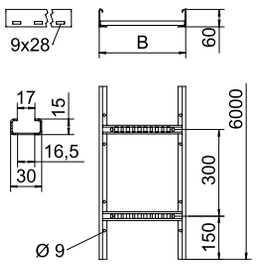
St FT

LCIS 60 cable ladder, 6 m C30

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamping pieces, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

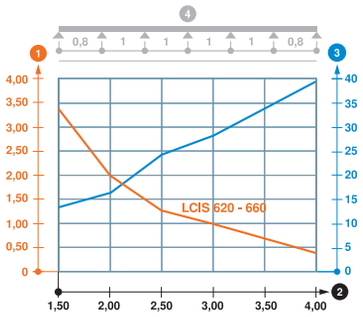
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 FT	200	6	283.170	**6209643**
LCIS 630 6 FT	300	6	306.170	**6209645**
LCIS 640 6 FT	400	6	329.170	**6209647**
LCIS 650 6 FT	500	6	352.340	**6209649**
LCIS 660 6 FT	600	6	375.340	**6209651**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 6 FT	6000	200	1.5	80	300
LCIS 630 6 FT	6000	300	1.5	120	300
LCIS 640 6 FT	6000	400	1.5	160	300
LCIS 650 6 FT	6000	500	1.5	200	300
LCIS 660 6 FT	6000	600	1.5	240	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 FT	3.3	2	1.3	1	0.4
LCIS 630 6 FT	3.3	2	1.3	1	0.4
LCIS 640 6 FT	3.3	2	1.3	1	0.4
LCIS 650 6 FT	3.3	2	1.3	1	0.4
LCIS 660 6 FT	3.3	2	1.3	1	0.4

Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

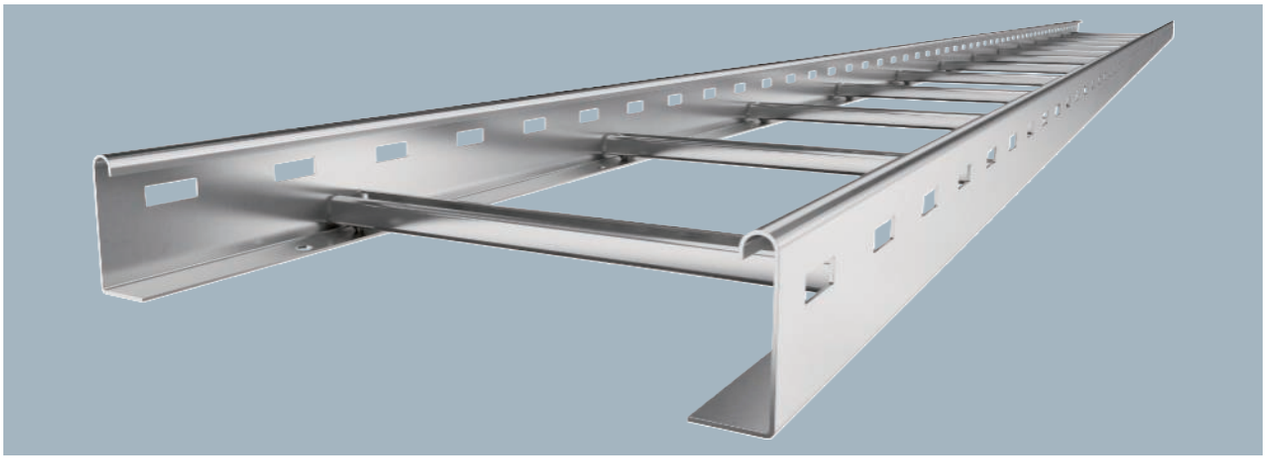
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

VA 2B

Cable ladder LCIS 60, 6 m C30

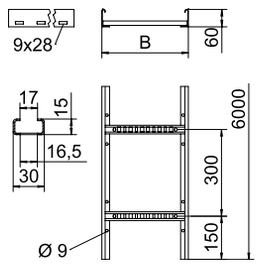


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 A2	200	6	267.000	**6207252**
LCIS 630 6 A2	300	6	288.840	**6207254**
LCIS 640 6 A2	400	6	310.500	**6207256**
LCIS 650 6 A2	500	6	332.340	**6207258**
LCIS 660 6 A2	600	6	354.000	**6207260**

Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

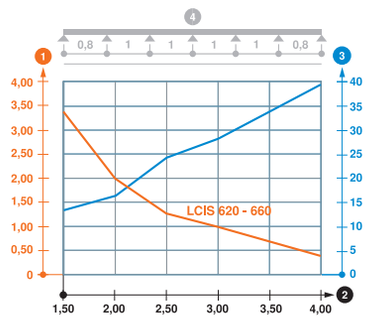
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 6 A2	6000	200	1.5	80	300
LCIS 630 6 A2	6000	300	1.5	120	300
LCIS 640 6 A2	6000	400	1.5	160	300
LCIS 650 6 A2	6000	500	1.5	200	300
LCIS 660 6 A2	6000	600	1.5	240	300

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A2	3.3	2	1.3	1	0.4
LCIS 630 6 A2	3.3	2	1.3	1	0.4
LCIS 640 6 A2	3.3	2	1.3	1	0.4
LCIS 650 6 A2	3.3	2	1.3	1	0.4
LCIS 660 6 A2	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

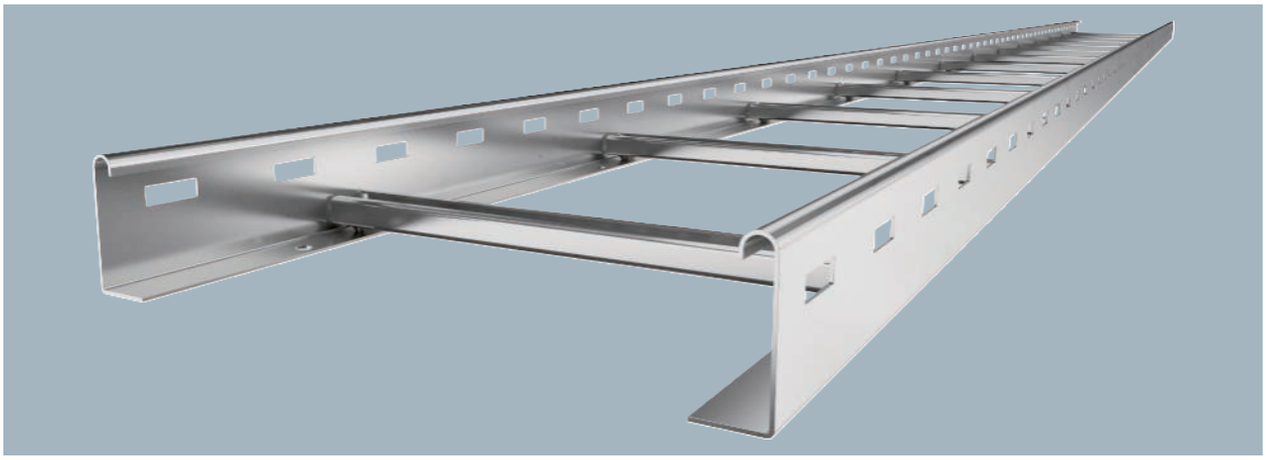
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

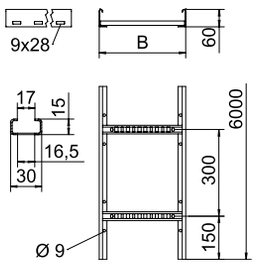
Cable ladder LCIS 60, 6 m C30



Cable ladder with 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

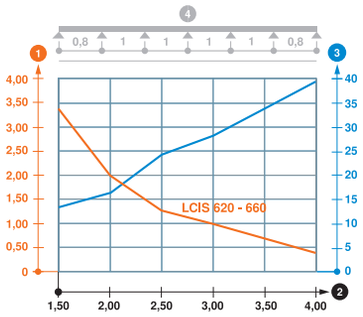
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 6 A4	200	6	267.000	**6207202**
LCIS 630 6 A4	300	6	288.833	**6207204**
LCIS 640 6 A4	400	6	310.500	**6207206**
LCIS 650 6 A4	500	6	332.340	**6207208**
LCIS 660 6 A4	600	6	354.000	**6207210**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LCIS 620 6 A4	6000	200	1.5	80	300
LCIS 630 6 A4	6000	300	1.5	120	300
LCIS 640 6 A4	6000	400	1.5	160	300
LCIS 650 6 A4	6000	500	1.5	200	300
LCIS 660 6 A4	6000	600	1.5	240	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 6 A4	3.3	2	1.3	1	0.4
LCIS 630 6 A4	3.3	2	1.3	1	0.4
LCIS 640 6 A4	3.3	2	1.3	1	0.4
LCIS 650 6 A4	3.3	2	1.3	1	0.4
LCIS 660 6 A4	3.3	2	1.3	1	0.4

Load diagram LCIS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

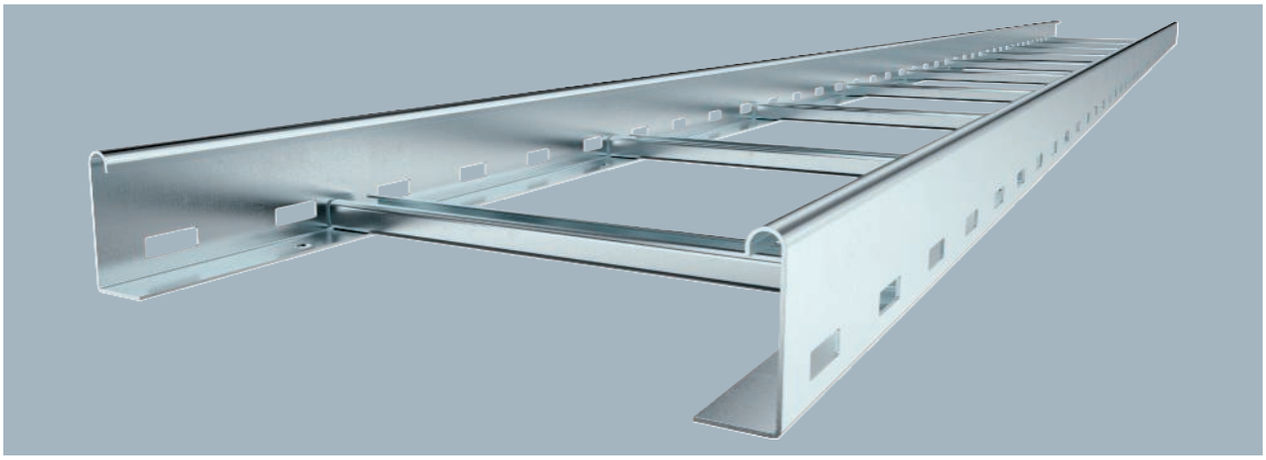
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 60, 3 m VS

St FS



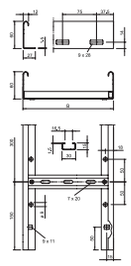
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FS	200		3	267.000	**6208538**
LG 630 VS 3 FS	300		3	288.933	**6208541**
LG 640 VS 3 FS	400		3	314.600	**6208544**
LG 650 VS 3 FS	500		3	332.600	**6208547**
LG 660 VS 3 FS	600		3	354.266	**6208550**

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

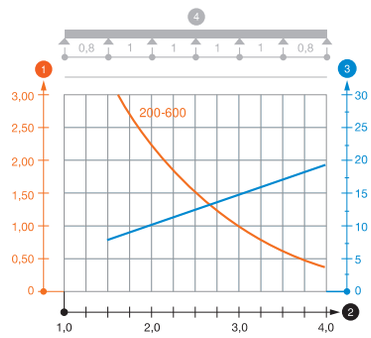
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FS	2.25	1.5	1.1	0.45
LG 630 VS 3 FS	2.25	1.5	1.1	0.45
LG 640 VS 3 FS	2.25	1.5	1.1	0.45
LG 650 VS 3 FS	2.25	1.5	1.1	0.45
LG 660 VS 3 FS	2.25	1.5	1.1	0.45

Load



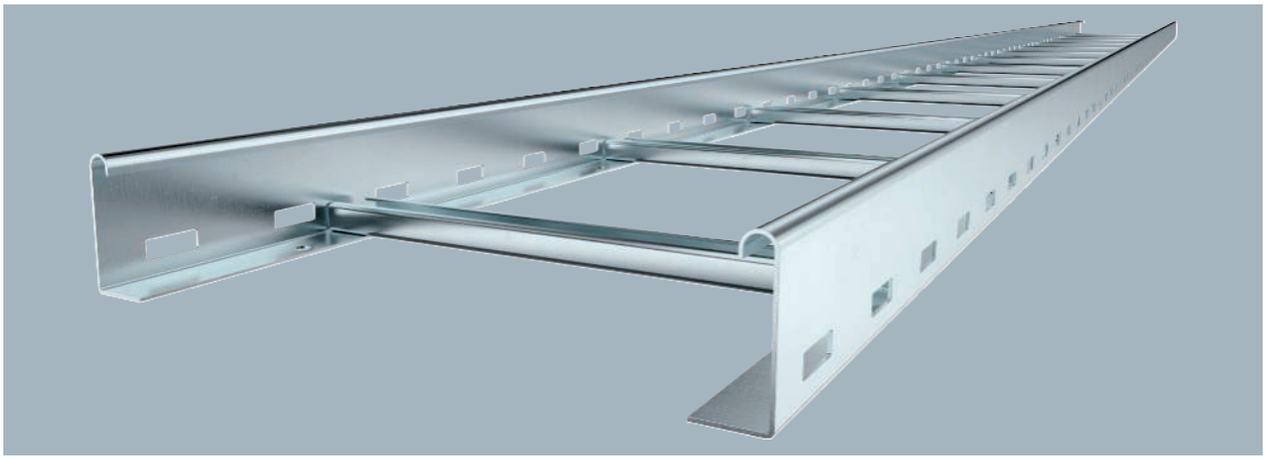
Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS

Cable ladder LG 60, 6 m VS

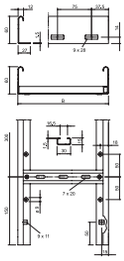


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

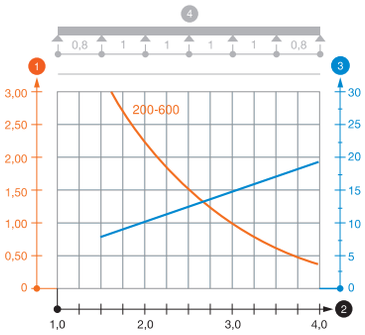
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FS	200		6	267.066	**6208627**
LG 630 VS 6 FS	300		6	288.733	**6208630**
LG 640 VS 6 FS	400		6	314.400	**6208633**
LG 650 VS 6 FS	500		6	332.400	**6208636**
LG 660 VS 6 FS	600		6	354.066	**6208639**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 6 FS	2.25	1.5	1.1	0.45
LG 630 VS 6 FS	2.25	1.5	1.1	0.45
LG 640 VS 6 FS	2.25	1.5	1.1	0.45
LG 650 VS 6 FS	2.25	1.5	1.1	0.45
LG 660 VS 6 FS	2.25	1.5	1.1	0.45

Load diagram, LG 60 VS

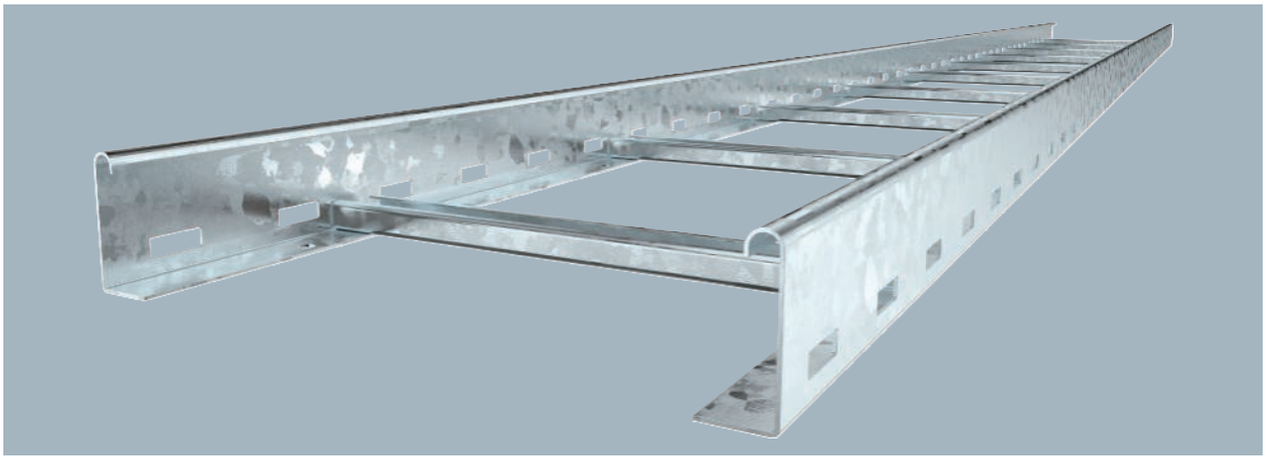
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 60, 3 m VS

St FT



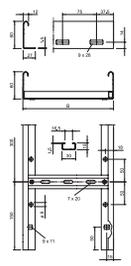
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FT	200	3	285.066	**6208562**
LG 630 VS 3 FT	300	3	308.000	**6208566**
LG 640 VS 3 FT	400	3	331.000	**6208570**
LG 650 VS 3 FT	500	3	354.733	**6208574**
LG 660 VS 3 FT	600	3	385.400	**6208578**

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for the maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

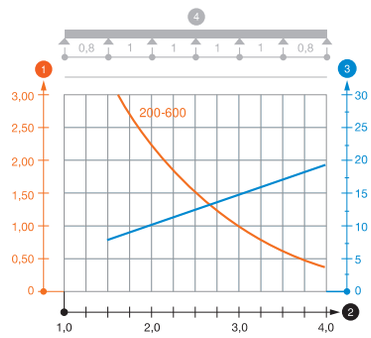
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 3 FT	3000	200	1.5	98	300
LG 630 VS 3 FT	3000	300	1.5	148	300
LG 640 VS 3 FT	3000	400	1.5	198	300
LG 650 VS 3 FT	3000	500	1.5	248	300
LG 660 VS 3 FT	3000	600	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FT	2.25	1.5	1.1	0.45
LG 630 VS 3 FT	2.25	1.5	1.1	0.45
LG 640 VS 3 FT	2.25	1.5	1.1	0.45
LG 650 VS 3 FT	2.25	1.5	1.1	0.45
LG 660 VS 3 FT	2.25	1.5	1.1	0.45

Load



Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

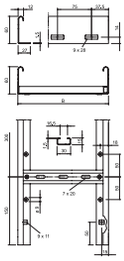
Cable ladder LG 60, 6 m VS

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

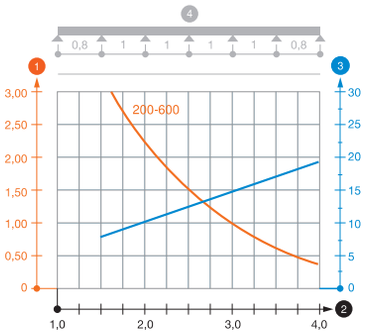
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FT	200	6	284.833	**6208650**
LG 630 VS 6 FT	300	6	307.833	**6208653**
LG 640 VS 6 FT	400	6	330.833	**6208656**
LG 650 VS 6 FT	500	6	354.500	**6208659**
LG 660 VS 6 FT	600	6	385.166	**6208661**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 6 FT	6000	200	1.5	98	300
LG 630 VS 6 FT	6000	300	1.5	148	300
LG 640 VS 6 FT	6000	400	1.5	198	300
LG 650 VS 6 FT	6000	500	1.5	248	300
LG 660 VS 6 FT	6000	600	1.5	298	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 6 FT	2.25	1.5	1.1	0.45
LG 630 VS 6 FT	2.25	1.5	1.1	0.45
LG 640 VS 6 FT	2.25	1.5	1.1	0.45
LG 650 VS 6 FT	2.25	1.5	1.1	0.45
LG 660 VS 6 FT	2.25	1.5	1.1	0.45

Load diagram, LG 60 VS

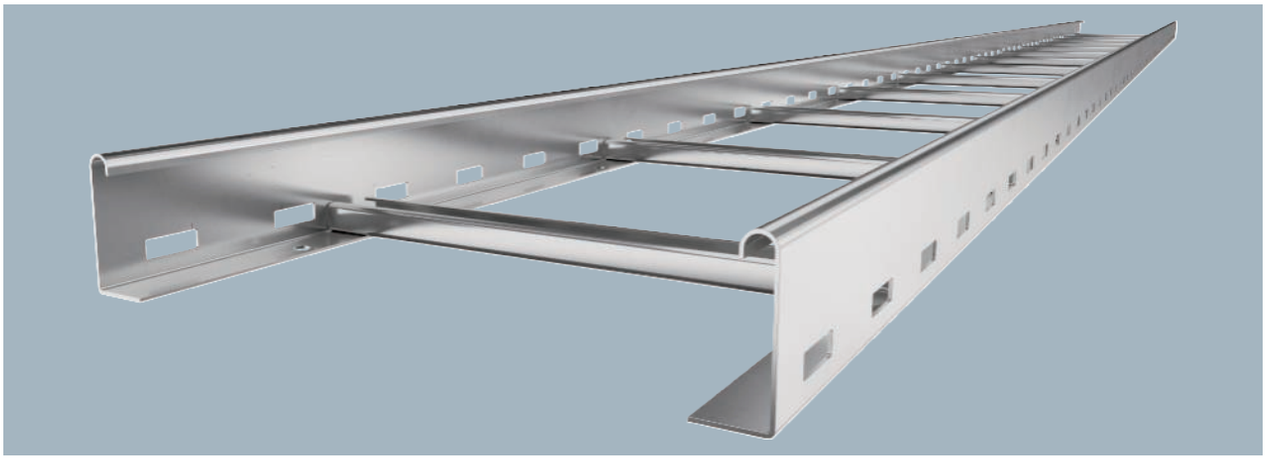
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 60, 6 m VS

VA 2B



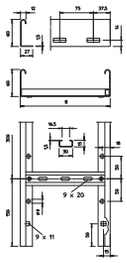
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	**6208700**
LG 630 VS6 A2	300	6	288.733	**6208703**
LG 640 VS6 A2	400	6	314.400	**6208706**
LG 650 VS6 A2	500	6	332.400	**6208709**
LG 660 VS6 A2	600	6	354.066	**6208712**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

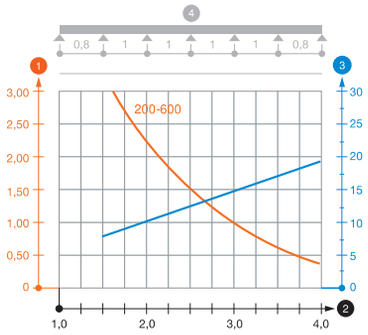
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45

Load



Load diagram, LG 60 VS

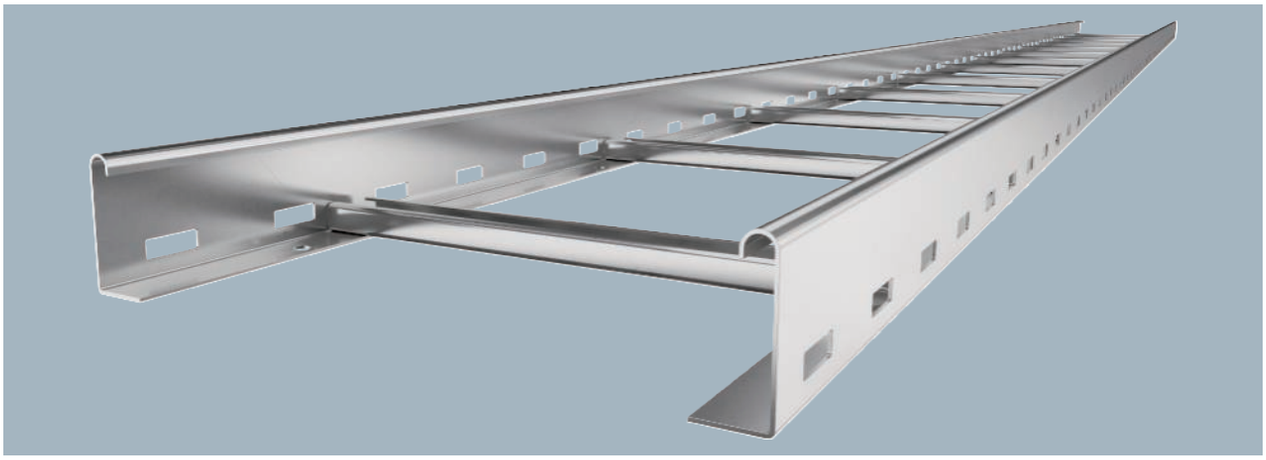
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Cable ladder LG 60, 6 m VS

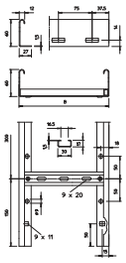


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

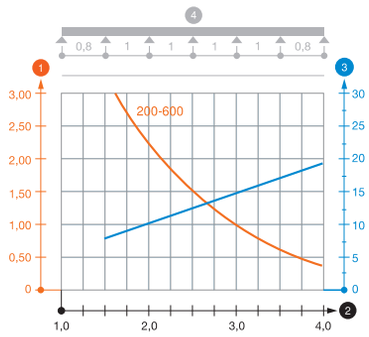
Type	Width mm		Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A4	200		6	267.733	**6101200**
LG 630 VS6 A4	300		6	288.733	**6101208**
LG 640 VS6 A4	400		6	314.400	**6101216**
LG 650 VS6 A4	500		6	341.666	**6101223**
LG 660 VS6 A4	600		6	354.000	**6101232**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS6 A4	6000	200	98	300
LG 630 VS6 A4	6000	300	148	300
LG 640 VS6 A4	6000	400	198	300
LG 650 VS6 A4	6000	500	248	300
LG 660 VS6 A4	6000	600	298	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A4	3.1	2.25	1.5	1.1	0.75	0.45

Load diagram, LG 60 VS

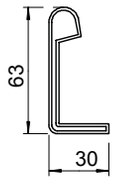
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Protective cap 60

PE

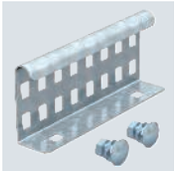


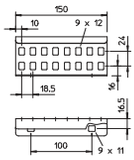
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	6222537

Protective cap to cover cable ladder ends of side height 60 mm.

Straight connector 60

St FS FT





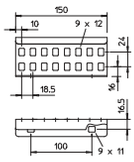
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector 60

VA VA 2B



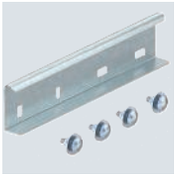
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	6208846
LVG 60 A4	60	10	20.000	6208835

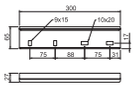
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

LDVG 60 expansion connector

St FT



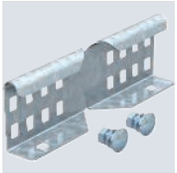


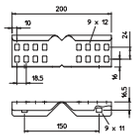
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LDVG 60 FT	60	2	61.700	6208970

Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.

Angle connector 60

St FS





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	6208895

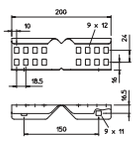
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

VA VA 2B

Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	**6208898**
LWVG 60 A4	60	10	24.256	**6208891**



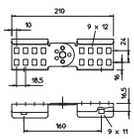
The bolt fastening ensures the continuity of the equipotential bonding.

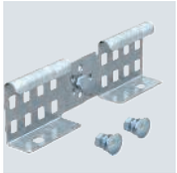
Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	**6208941**
LGVG 60 FT	60	10	29.900	**6208944**





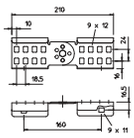
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

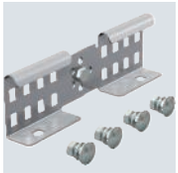
The bolt fastening ensures the continuity of the equipotential bonding.

VA VA 2B

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	**6208947**
LGVG 60 A4	60	10	28.500	**6208932**





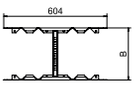
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

St FS FT

Multifunctional connector 60

Type	Dim. B mm	Side height mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 620 FS	200	60	1.50	1	123.200	**6225710**
LMFV 630 FS	300	60	1.50	1	129.700	**6225712**
LMFV 640 FS	400	60	1.50	1	136.200	**6225714**
LMFV 650 FS	500	60	1.50	1	142.800	**6225716**
LMFV 660 FS	600	60	1.50	1	149.300	**6225718**
LMFV 620 FT	200	60	1.50	1	130.600	**6225730**
LMFV 630 FT	300	60	1.50	1	137.500	**6225732**
LMFV 640 FT	400	60	1.50	1	144.400	**6225734**
LMFV 650 FT	500	60	1.50	1	151.300	**6225736**
LMFV 660 FT	600	60	1.50	1	158.200	**6225738**

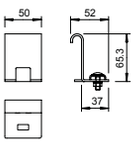


Multifunctional connector for joining cable ladders with a side height of 60 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

St FS FT

Connection piece 60

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 FS	10	13.000	**6221351**
LAS 60 FT	10	13.600	**6221378**



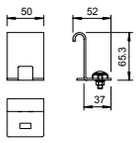
Connector for creation of branches at the same height at a later date.

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Connector 60

VA 2B

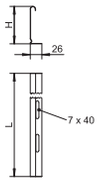


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 A2	10	13.000	**6221386**

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Separating retainer 45

St FS DD

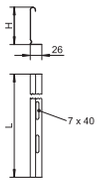


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 45

VA VA 2B

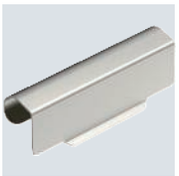


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**
TSG 45 A4	45	0.75	3000	3	49.850	**6062028**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

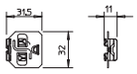


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B



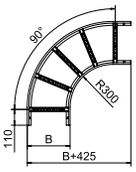
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FS FT

90° bend 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 FS	200	1.5	1	254.500	**6225042**
LB 90 630 R3 FS	300	1.5	1	318.300	**6225044**
LB 90 640 R3 FS	400	1.5	1	368.700	**6225046**
LB 90 650 R3 FS	500	1.5	1	458.600	**6225048**
LB 90 660 R3 FS	600	1.5	1	524.600	**6225050**
LB 90 620 R3 FT	200	1.5	1	269.800	**6225062**
LB 90 630 R3 FT	300	1.5	1	338.500	**6225064**
LB 90 640 R3 FT	400	1.5	1	392.100	**6225066**
LB 90 650 R3 FT	500	1.5	1	492.600	**6225068**
LB 90 660 R3 FT	600	1.5	1	562.700	**6225070**

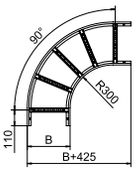


90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

VA VA 2B

90° bend 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 A2	200	1.5	1	257.800	**6225082**
LB 90 630 R3 A2	300	1.5	1	322.300	**6225084**
LB 90 640 R3 A2	400	1.5	1	373.400	**6225086**
LB 90 650 R3 A2	500	1.5	1	458.600	**6225088**
LB 90 660 R3 A2	600	1.5	1	524.600	**6225090**
LB 90 620 R3 A4	200	1.5	1	261.000	**6225102**
LB 90 630 R3 A4	300	1.5	1	326.400	**6225104**
LB 90 640 R3 A4	400	1.5	1	378.200	**6225106**
LB 90 650 R3 A4	500	1.5	1	458.600	**6225108**
LB 90 660 R3 A4	600	1.5	1	524.600	**6225110**

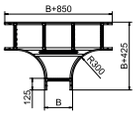


90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

T piece 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 FS	200	1.5	1	468.700	**6225210**
LT 630 R3 FS	300	1.5	1	531.000	**6225212**
LT 640 R3 FS	400	1.5	1	619.700	**6225214**
LT 650 R3 FS	500	1.5	1	688.600	**6225216**
LT 660 R3 FS	600	1.5	1	757.400	**6225218**
LT 620 R3 FT	200	1.5	1	494.800	**6225230**
LT 630 R3 FT	300	1.5	1	595.500	**6225232**
LT 640 R3 FT	400	1.5	1	656.500	**6225234**
LT 650 R3 FT	500	1.5	1	729.500	**6225236**
LT 660 R3 FT	600	1.5	1	797.100	**6225238**

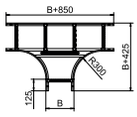


T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

T piece 60

VA VA 2B

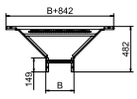


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 A2	200	1.5	1	474.600	**6225250**
LT 630 R3 A2	300	1.5	1	537.800	**6225252**
LT 640 R3 A2	400	1.5	1	627.700	**6225254**
LT 650 R3 A2	500	1.5	1	697.400	**6225256**
LT 660 R3 A2	600	1.5	1	767.200	**6225258**
LT 620 R3 A4	200	1.5	1	480.600	**6225270**
LT 630 R3 A4	300	1.5	1	544.700	**6225272**
LT 640 R3 A4	400	1.5	1	635.600	**6225274**
LT 650 R3 A4	500	1.5	1	706.200	**6225276**
LT 660 R3 A4	600	1.5	1	776.900	**6225278**

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

Add-on tee 60

VA VA 2B

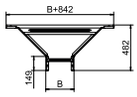


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 A2	200	1.5	1	304.000	**6225882**
LAA 630 R3 A2	300	1.5	1	326.000	**6225884**
LAA 640 R3 A2	400	1.5	1	348.000	**6225886**
LAA 650 R3 A2	500	1.5	1	371.000	**6225888**
LAA 660 R3 A2	600	1.5	1	393.000	**6225890**
LAA 620 R3 A4	200	1.5	1	304.000	**6225894**
LAA 630 R3 A4	300	1.5	1	326.000	**6225896**
LAA 640 R3 A4	400	1.5	1	348.000	**6225898**
LAA 650 R3 A4	500	1.5	1	371.000	**6225900**
LAA 660 R3 A4	600	1.5	1	393.000	**6225902**

Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

Add-on tee 60

St FS FT



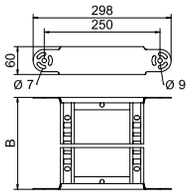
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 FS	200	1.5	1	306.000	**6225850**
LAA 630 R3 FS	300	1.5	1	328.000	**6225852**
LAA 640 R3 FS	400	1.5	1	351.000	**6225854**
LAA 650 R3 FS	500	1.5	1	373.000	**6225856**
LAA 660 R3 FS	600	1.5	1	395.000	**6225858**
LAA 620 R3 FT	200	1.5	1	316.000	**6225870**
LAA 630 R3 FT	300	1.5	1	339.000	**6225872**
LAA 640 R3 FT	400	1.5	1	363.000	**6225874**
LAA 650 R3 FT	500	1.5	1	387.000	**6225876**
LAA 660 R3 FT	600	1.5	1	410.000	**6225878**

Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Adjustable bend element 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 FS	200	1.5	1	84.000	**6225450**
LGBE 630 FS	300	1.5	1	97.000	**6225452**
LGBE 640 FS	400	1.5	1	109.900	**6225454**
LGBE 650 FS	500	1.5	1	122.900	**6225456**
LGBE 660 FS	600	1.5	1	135.900	**6225458**
LGBE 620 FT	200	1.5	1	89.000	**6225470**
LGBE 630 FT	300	1.5	1	102.600	**6225472**
LGBE 640 FT	400	1.5	1	116.400	**6225474**
LGBE 650 FT	500	1.5	1	130.200	**6225476**
LGBE 660 FT	600	1.5	1	144.000	**6225478**



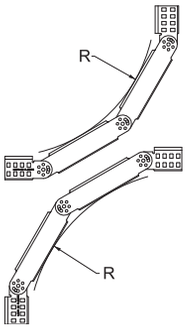
Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.

Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 60 adjustable connectors separately.

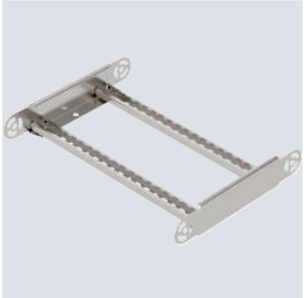
Installation



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Adjustable bend element 60

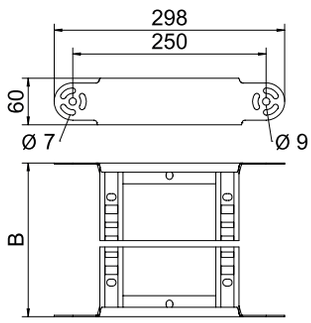
VA VA 2B



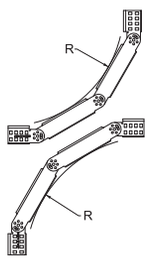
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 A2	200	1.5	1	84.000	**6225460**
LGBE 630 A2	300	1.5	1	97.000	**6225462**
LGBE 640 A2	400	1.5	1	109.900	**6225464**
LGBE 650 A2	500	1.5	1	122.900	**6225466**
LGBE 660 A2	600	1.5	1	135.900	**6225468**
LGBE 620 A4	200	1.5	1	84.000	**6225480**
LGBE 630 A4	300	1.5	1	97.000	**6225482**
LGBE 640 A4	400	1.5	1	109.900	**6225484**
LGBE 650 A4	500	1.5	1	122.900	**6225486**
LGBE 660 A4	600	1.5	1	135.900	**6225488**

Adjustable bend element with welded rung for use in cable ladder types with a side height of 60 mm.

Dimensions



Installation



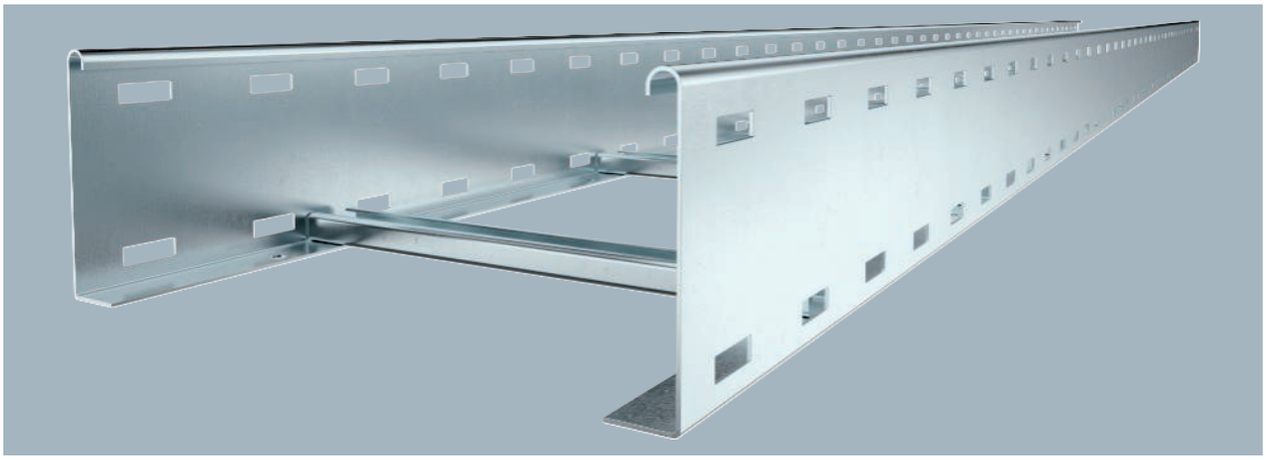
Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 60 adjustable connectors separately.

St FS

Cable ladder LG 110, 3 m VS

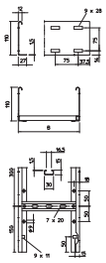


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

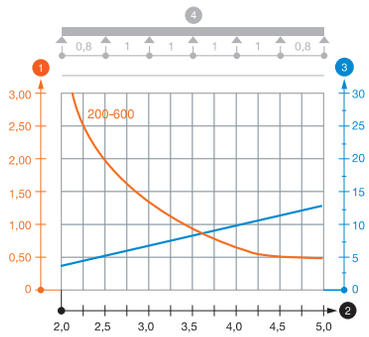
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FS	200	3	396.600	**6216404**
LG 113 VS 3 FS	300	3	396.600	**6216407**
LG 114 VS 3 FS	400	3	422.267	**6216410**
LG 115 VS 3 FS	500	3	440.267	**6216413**
LG 116 VS 3 FS	600	3	462.000	**6216416**

Dimensions



Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 3 FS	3000	200	1.5	188	300
LG 113 VS 3 FS	3000	300	1.5	283	300
LG 114 VS 3 FS	3000	400	1.5	378	300
LG 115 VS 3 FS	3000	500	1.5	475	300
LG 116 VS 3 FS	3000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FS	3.1	1.4	0.65	0.5
LG 113 VS 3 FS	3.1	1.4	0.65	0.5
LG 114 VS 3 FS	3.1	1.4	0.65	0.5
LG 115 VS 3 FS	3.1	1.4	0.65	0.5
LG 116 VS 3 FS	3.1	1.4	0.65	0.5

Load diagram, cable ladder, type LG 110 VS

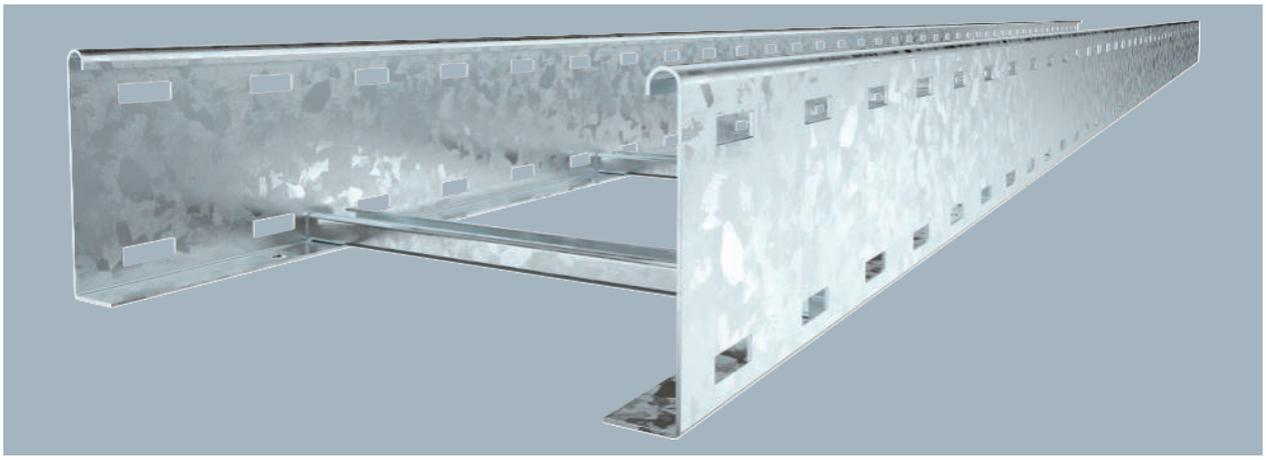
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 110, 3 m VS

St FT



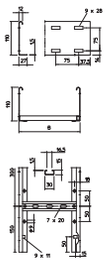
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FT	200	3	400.000	**6216423**
LG 113 VS 3 FT	300	3	423.000	**6216426**
LG 114 VS 3 FT	400	3	446.000	**6216429**
LG 115 VS 3 FT	500	3	469.533	**6216432**
LG 116 VS 3 FT	600	3	500.000	**6216435**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

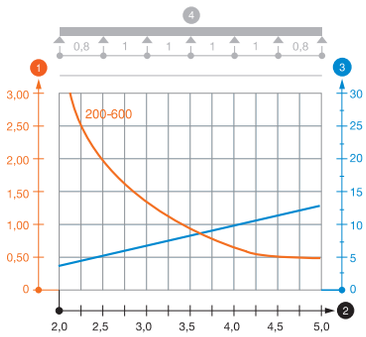
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 3 FT	3000	200	1.5	188	300
LG 113 VS 3 FT	3000	300	1.5	283	300
LG 114 VS 3 FT	3000	400	1.5	378	300
LG 115 VS 3 FT	3000	500	1.5	475	300
LG 116 VS 3 FT	3000	600	1.5	568	300

Dimensions



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FT	3.1	1.4	0.65	0.5
LG 113 VS 3 FT	3.1	1.4	0.65	0.5
LG 114 VS 3 FT	3.1	1.4	0.65	0.5
LG 115 VS 3 FT	3.1	1.4	0.65	0.5
LG 116 VS 3 FT	3.1	1.4	0.65	0.5

Load



Load diagram, cable ladder, type LG 110 VS

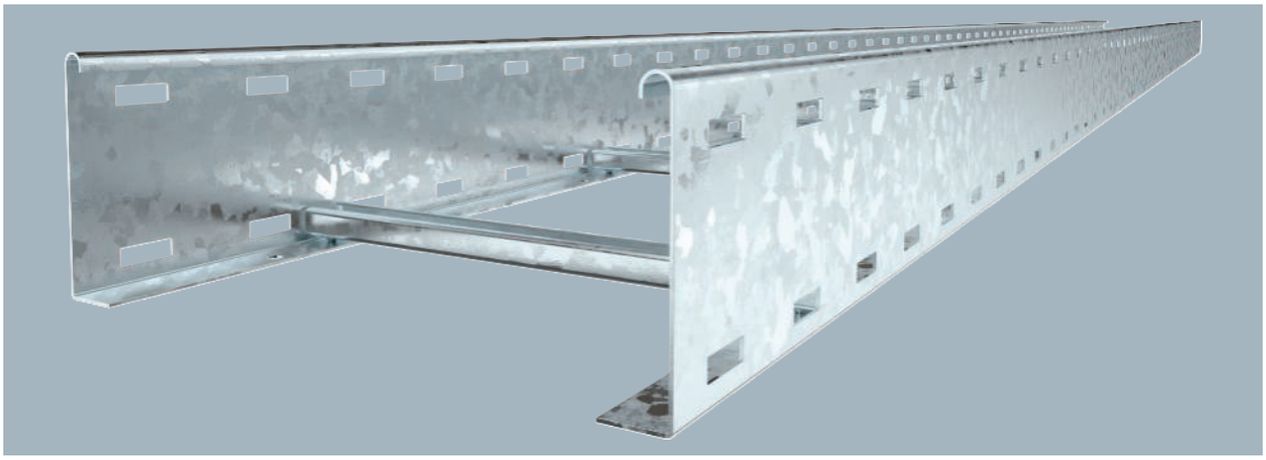
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

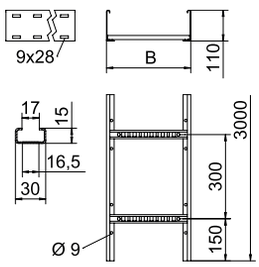
Cable ladder LCIS 110, 6 m C30



Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

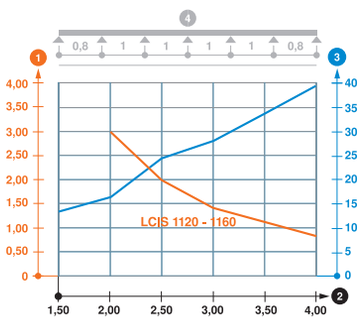
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 1120 6 FT	200	6	399.200	**6209820**
LCIS 1130 6 FT	300	6	422.534	**6209822**
LCIS 1140 6 FT	400	6	446.200	**6209824**
LCIS 1145 6 FT	450	6	459.534	**6209825**
LCIS 1150 6 FT	500	6	469.867	**6209826**
LCIS 1160 6 FT	600	6	491.670	**6209828**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LCIS 1120 6 FT	6000	200	1.5	180	300
LCIS 1130 6 FT	6000	300	1.5	270	300
LCIS 1140 6 FT	6000	400	1.5	360	300
LCIS 1145 6 FT	6000	450	1.5	405	300
LCIS 1150 6 FT	6000	500	1.5	450	300
LCIS 1160 6 FT	6000	600	1.5	540	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 1120 6 FT	3	2	1.4	0.8
LCIS 1130 6 FT	3	2	1.4	0.8
LCIS 1140 6 FT	3	2	1.4	0.8
LCIS 1145 6 FT	3	2	1.4	0.8
LCIS 1150 6 FT	3	2	1.4	0.8
LCIS 1160 6 FT	3	2	1.4	0.8

Load diagram, cable ladder, type LCIS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

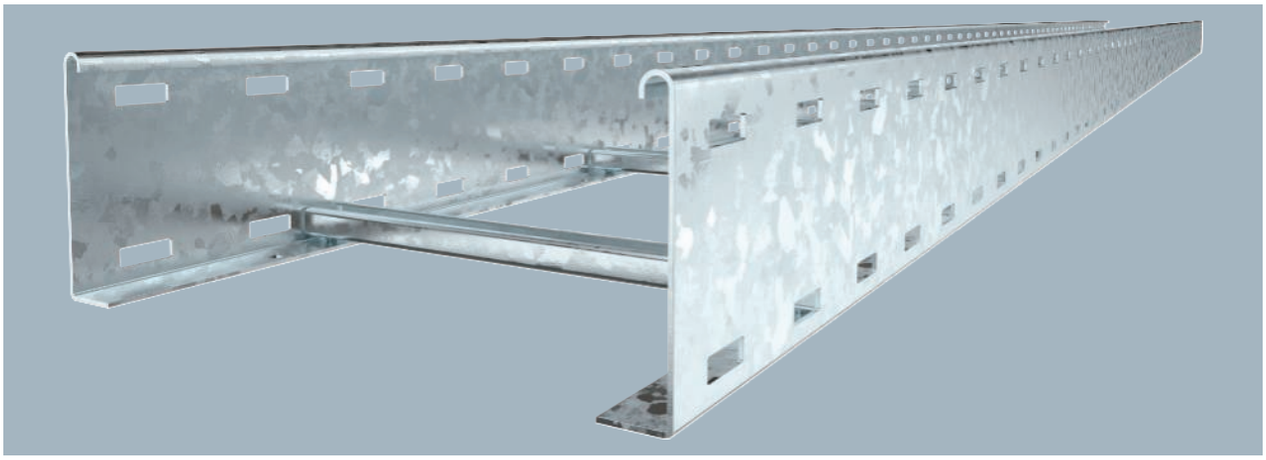
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder SLCS 110, 3 m C30

St FT

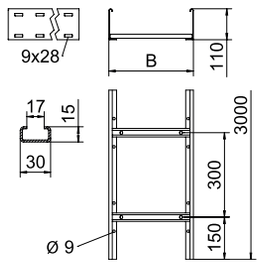


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLCS 1120 3 FT	200	3	521.800	**6207302**
SLCS 1130 3 FT	300	3	555.800	**6207304**
SLCS 1140 3 FT	400	3	589.467	**6207306**
SLCS 1150 3 FT	500	3	623.133	**6207310**
SLCS 1160 3 FT	600	3	656.800	**6207312**

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

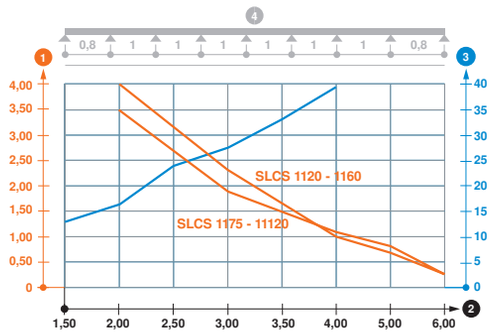
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
SLCS 1120 3 FT	3000	200	2	180	300
SLCS 1130 3 FT	3000	300	2	270	300
SLCS 1140 3 FT	3000	400	2	360	300
SLCS 1150 3 FT	3000	500	2	450	300
SLCS 1160 3 FT	3000	600	2	540	300

Dimensions



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m
SLCS 1120 3 FT	4	2.3	1	0.7	0.25
SLCS 1130 3 FT	4	2.3	1	0.7	0.25
SLCS 1140 3 FT	4	2.3	1	0.7	0.25
SLCS 1150 3 FT	4	2.3	1	0.7	0.25
SLCS 1160 3 FT	4	2.3	1	0.7	0.25

Load



Load diagram, cable ladder, type SLCS 110

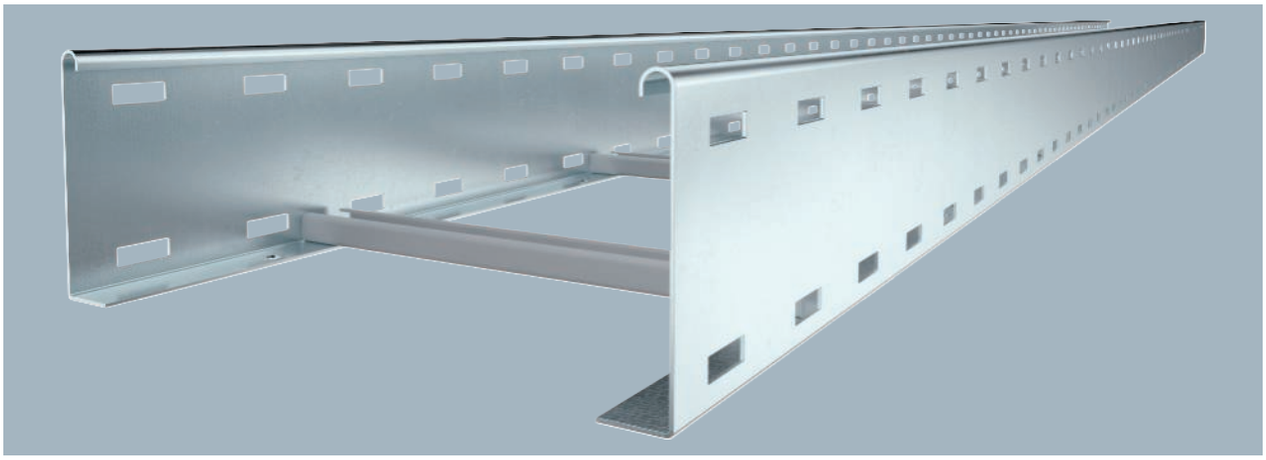
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable ladder LG 110, 6 m VS

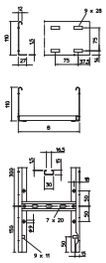


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

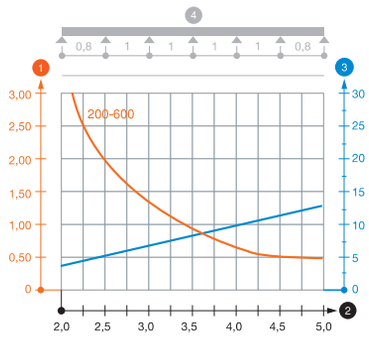
Type	Width mm		Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FS	200		6	374.966	**6216442**
LG 113 VS 6 FS	300		6	396.633	**6216445**
LG 114 VS 6 FS	400		6	422.300	**6216448**
LG 115 VS 6 FS	500		6	440.300	**6216451**
LG 116 VS 6 FS	600		6	461.967	**6216454**

Dimensions



Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 6 FS	6000	200	1.5	188	300
LG 113 VS 6 FS	6000	300	1.5	283	300
LG 114 VS 6 FS	6000	400	1.5	378	300
LG 115 VS 6 FS	6000	500	1.5	475	300
LG 116 VS 6 FS	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FS	3.1	1.4	0.65	0.5
LG 113 VS 6 FS	3.1	1.4	0.65	0.5
LG 114 VS 6 FS	3.1	1.4	0.65	0.5
LG 115 VS 6 FS	3.1	1.4	0.65	0.5
LG 116 VS 6 FS	3.1	1.4	0.65	0.5

Load diagram, cable ladder, type LG 110 VS

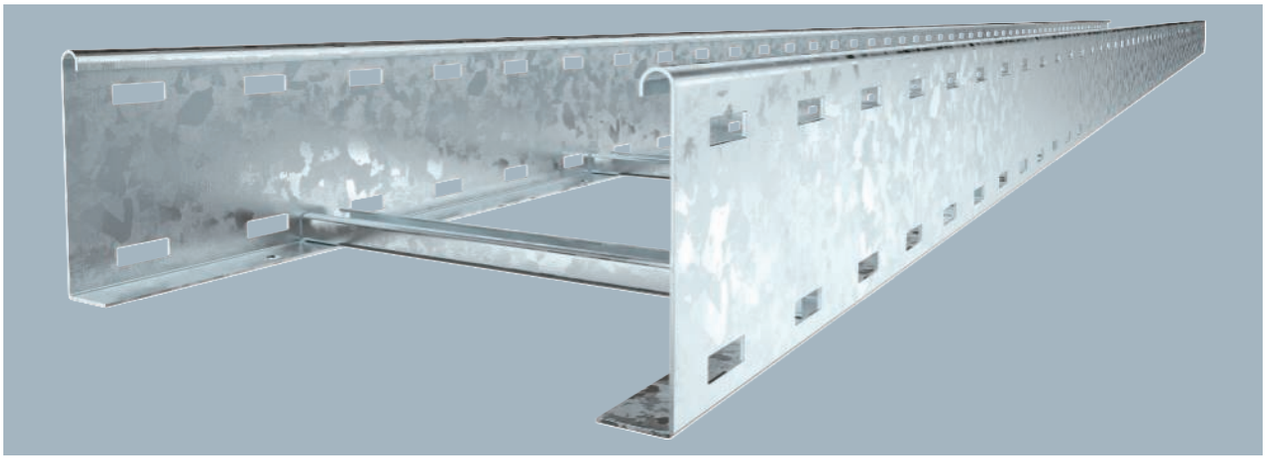
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 110, 6 m VS

St FT



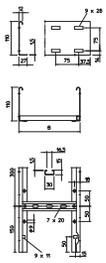
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FT	200	6	399.867	**6216465**
LG 113 VS 6 FT	300	6	422.833	**6216468**
LG 114 VS 6 FT	400	6	445.867	**6216471**
LG 115 VS 6 FT	500	6	469.533	**6216474**
LG 116 VS 6 FT	600	6	500.200	**6216477**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

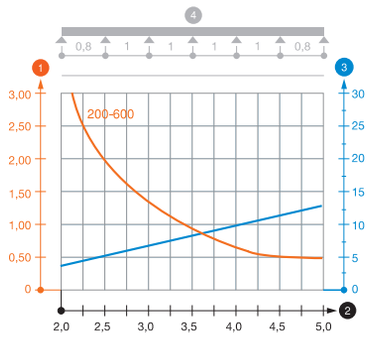
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 6 FT	6000	200	1.5	188	300
LG 113 VS 6 FT	6000	300	1.5	283	300
LG 114 VS 6 FT	6000	400	1.5	378	300
LG 115 VS 6 FT	6000	500	1.5	475	300
LG 116 VS 6 FT	6000	600	1.5	568	300

Dimensions



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FT	3.1	1.4	0.65	0.5
LG 113 VS 6 FT	3.1	1.4	0.65	0.5
LG 114 VS 6 FT	3.1	1.4	0.65	0.5
LG 115 VS 6 FT	3.1	1.4	0.65	0.5
LG 116 VS 6 FT	3.1	1.4	0.65	0.5

Load



Load diagram, cable ladder, type LG 110 VS

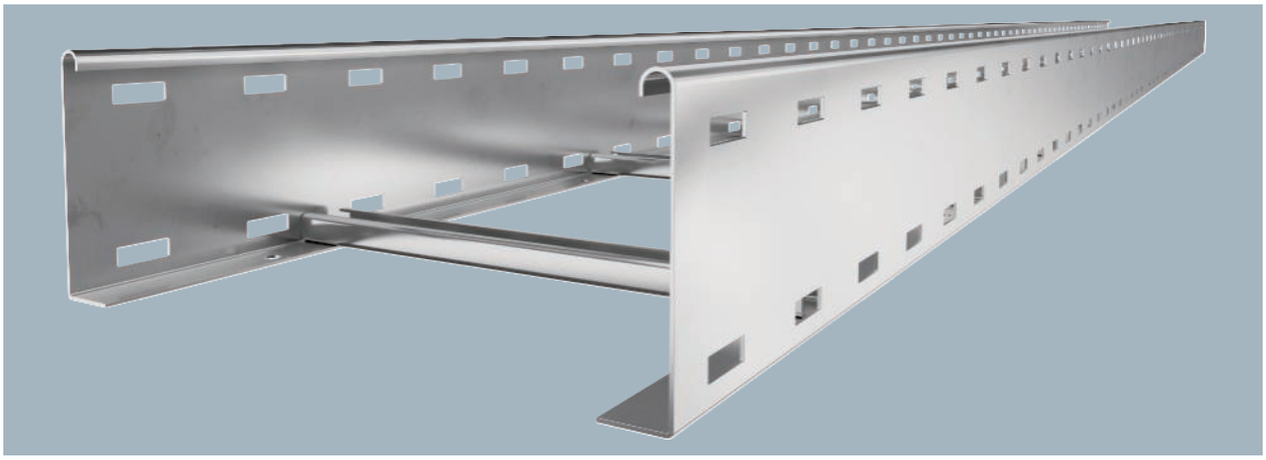
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

VA 2B

Cable ladder LG 110, 6 m VS

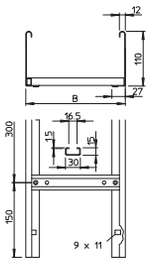


The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056 in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

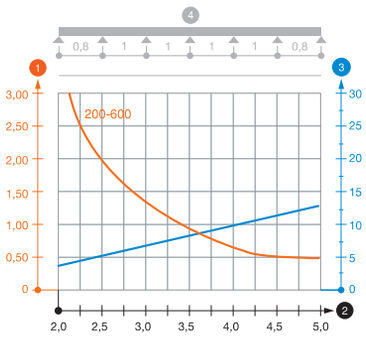
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS6 A2	200	6	377.666	**6216492**
LG 113 VS6 A2	300	6	400.000	**6216493**
LG 114 VS6 A2	400	6	419.500	**6216495**
LG 115 VS6 A2	500	6	444.500	**6216497**
LG 116 VS6 A2	600	6	468.666	**6216499**

Dimensions



Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS6 A2	6000	200	1.5	188	300
LG 113 VS6 A2	6000	300	1.5	283	300
LG 114 VS6 A2	6000	400	1.5	378	300
LG 115 VS6 A2	6000	500	1.5	475	300
LG 116 VS6 A2	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS6 A2	3.1	1.3	0.6	0.45
LG 113 VS6 A2	3.1	1.3	0.6	0.45
LG 114 VS6 A2	3.1	1.3	0.6	0.45
LG 115 VS6 A2	3.1	1.3	0.6	0.45
LG 116 VS6 A2	3.1	1.3	0.6	0.45

Load diagram, cable ladder, type LG 110 A2

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

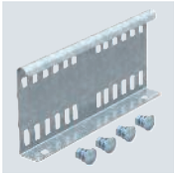
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

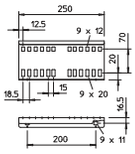
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

LG cable ladder system, side height 110

LVG 110 straight connector

St FS FT





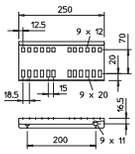
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 FS	110	10	50.900	**6216545**
LVG 110 FT	110	10	53.700	**6216548**

Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector 110

VA 2B



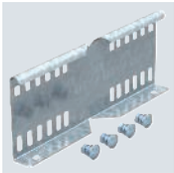
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 A2	110	10	50.900	**6216550**

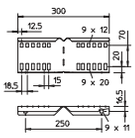
Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm.

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector 110

St FS





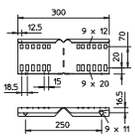
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 FS	110	10	48.800	**6216587**

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

Angle connector 110

VA 2B



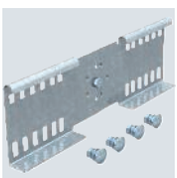
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 A2	110	10	48.800	**6216590**

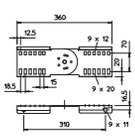
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

Adjustable connector 110

St FS FT





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 FS	110	10	77.900	**6216650**
LGVG 110 FT	110	10	82.100	**6216653**

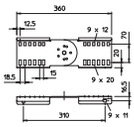
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

VA 2B

Articulated connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 A2	110	10	77.400	6216648



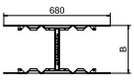
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

St FS FT

Multifunctional connector 110

Type	Dim. B mm	Side height mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 1120 FS	200	110	1.50	1	208.100	6225750
LMFV 1130 FS	300	110	1.50	1	214.600	6225752
LMFV 1140 FS	400	110	1.50	1	221.100	6225754
LMFV 1150 FS	500	110	1.50	1	227.600	6225756
LMFV 1160 FS	600	110	1.50	1	234.000	6225758
LMFV 1120 FT	200	110	1.50	1	221.300	6225770
LMFV 1130 FT	300	110	1.50	1	228.200	6225772
LMFV 1140 FT	400	110	1.50	1	235.100	6225774
LMFV 1150 FT	500	110	1.50	1	241.900	6225778
LMFV 1160 FT	600	110	1.50	1	248.800	6225780

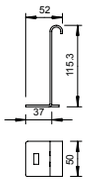


Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

St FS FT

Connector 110

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 FS	10	17.900	6221416
LAS 110 FT	10	18.700	6221424



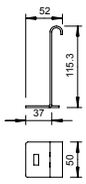
Connector for creation of branches at the same height at a later date.

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

VA 2B

Connector 110

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 A2	1	18.000	6221432



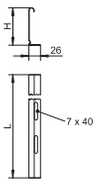
Connector for creation of branches at the same height at a later date.

To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

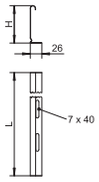


Separating retainer for separation of cables of different voltages or functions.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Barrier strip 85

VA 2B

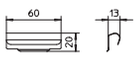


Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 A2	85	0.75	3000	3	74.958	**6062173**

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B

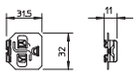


Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B

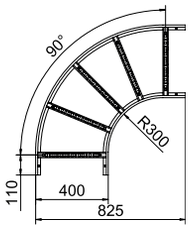


Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

90° bend 110

St FS FT

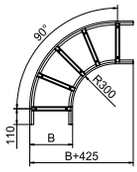


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 1120 R3 FS	200	1.5	1	355.300	**6225122**
LB 90 1130 R3 FS	300	1.5	1	428.300	**6225124**
LB 90 1140 R3 FS	400	1.5	1	488.000	**6225126**
LB 90 1150 R3 FS	500	1.5	1	580.400	**6225128**
LB 90 1160 R3 FS	600	1.5	1	646.500	**6225130**
LB 90 1120 R3 FT	200	1.5	1	379.700	**6225142**
LB 90 1130 R3 FT	300	1.5	1	457.900	**6225144**
LB 90 1140 R3 FT	400	1.5	1	521.400	**6225146**
LB 90 1150 R3 FT	500	1.5	1	619.600	**6225150**
LB 90 1160 R3 FT	600	1.5	1	688.700	**6225152**

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

90° bend 110

St FT



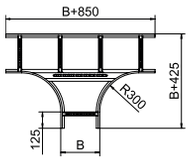
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 1120R3 FT	200	2	1	493.100	**6225172**
SLB 90 1130R3 FT	300	2	1	593.200	**6225174**
SLB 90 1140R3 FT	400	2	1	678.300	**6225176**
SLB 90 1150R3 FT	500	2	1	809.600	**6225180**
SLB 90 1160R3 FT	600	2	1	919.200	**6225182**

90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

T piece 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 1120 R3 FS	200	1.5	1	611.800	6225290
LT 1130 R3 FS	300	1.5	1	680.000	6225292
LT 1140 R3 FS	400	1.5	1	774.500	6225294
LT 1150 R3 FS	500	1.5	1	849.300	6225296
LT 1160 R3 FS	600	1.5	1	924.000	6225298
LT 1120 R3 FT	200	1.5	1	651.500	6225310
LT 1130 R3 FT	300	1.5	1	781.100	6225312
LT 1140 R3 FT	400	1.5	1	882.600	6225314
LT 1150 R3 FT	500	1.5	1	963.100	6225318
LT 1160 R3 FT	600	1.5	1	982.900	6225320

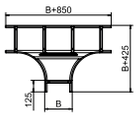


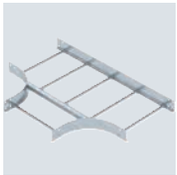
T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

T piece 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLT 1120 R3 FT	200	2	1	807.400	6225350
SLT 1130 R3 FT	300	2	1	969.800	6225352
SLT 1140 R3 FT	400	2	1	1,099.200	6225354
SLT 1150 R3 FT	500	2	1	1,200.500	6225358
SLT 1160 R3 FT	600	2	1	1,251.100	6225360



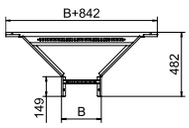


T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Add-on tee 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 1120 R3 FS	200	1.5	1	389.000	6225910
LAA 1130 R3 FS	300	1.5	1	411.000	6225912
LAA 1140 R3 FS	400	1.5	1	434.000	6225914
LAA 1150 R3 FS	500	1.5	1	457.000	6225916
LAA 1160 R3 FS	600	1.5	1	480.000	6225918
LAA 1120 R3 FT	200	1.5	1	401.000	6225930
LAA 1130 R3 FT	300	1.5	1	426.000	6225932
LAA 1140 R3 FT	400	1.5	1	449.000	6225934
LAA 1150 R3 FT	500	1.5	1	472.000	6225938
LAA 1160 R3 FT	600	1.5	1	497.000	6225940

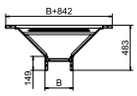


Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

Add-on tee 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLAA 1120 R3 FT	200	2	1	524.000	6225950
SLAA 1130 R3 FT	300	2	1	545.000	6225952
SLAA 1140 R3 FT	400	2	1	587.000	6225954
SLAA 1150 R3 FT	500	2	1	617.000	6225958
SLAA 1160 R3 FT	600	2	1	649.000	6225960



Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

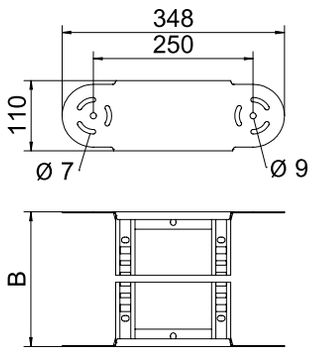
Adjustable bend element 110

St FS FT

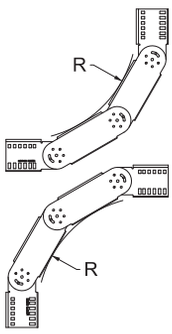
Type	Dim. B mm	Rail thick-ness mm		Pack Piece	Weight kg/100 pc.	Item no.
LGBE 1120 FS	200	1.5		1	128.000	**6225490**
LGBE 1130 FS	300	1.5		1	142.100	**6225492**
LGBE 1140 FS	400	1.5		1	155.300	**6225494**
LGBE 1150 FS	500	1.5		1	168.600	**6225496**
LGBE 1160 FS	600	1.5		1	181.800	**6225498**
LGBE 1120 FT	200	1.5		1	136.900	**6225510**
LGBE 1130 FT	300	1.5		1	150.900	**6225512**
LGBE 1140 FT	400	1.5		1	165.100	**6225514**
LGBE 1150 FT	500	1.5		1	179.300	**6225518**
LGBE 1160 FT	600	1.5		1	193.300	**6225520**

Adjustable bend element with welded rung for use in the cable ladder types with a side height of 110 mm.

Dimensions



Installation



Radius table

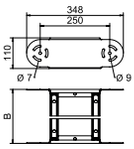
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 110 articulated connectors separately.

St FT

Adjustable bend element 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLGBE 1120 FT	200	2	1	172.800	**6225530**
SLGBE 1130 FT	300	2	1	191.800	**6225532**
SLGBE 1140 FT	400	2	1	210.800	**6225534**
SLGBE 1150 FT	500	2	1	229.600	**6225538**
SLGBE 1160 FT	600	2	1	248.600	**6225540**



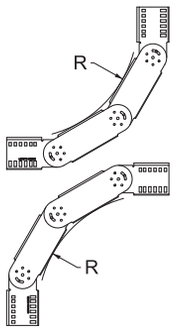
Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.

Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two LGVG 110 articulated connectors separately.

Installation

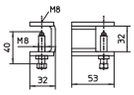


System accessories

St FT

KLL 32 cable ladder hold-down clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 FT	32	10	17.500	**6221061**

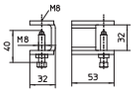


Beam clamp for fastening cable ladders to steel girders.

VA 2B

KLL 32 cable ladder hold-down clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 A2	32	10	17.100	**6221063**

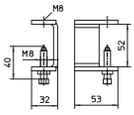


Beam clamp for fastening cable ladders to steel girders.

St FT

KLL 52 cable ladder hold-down clamp

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 FT	52	10	21.400	**6221071**

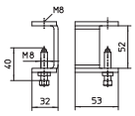


Beam clamp for fastening cable ladders to steel girders.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

KLL 52 cable ladder hold-down clamp

VA 2B

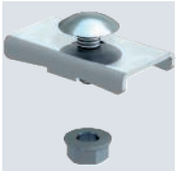


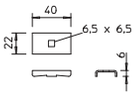
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 A2	52	10	21.000	**6221073**

Beam clamp for fastening cable ladders to steel girders.

LKS 40 hold-down clamp

St FS FT



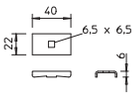


Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 40 FS	10	2.300	**6221076**
LKS 40 FT	10	2.400	**6221084**

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.

LKS 40 hold-down clamp

VA 2B

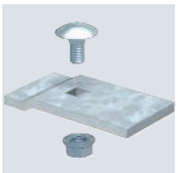


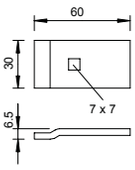
Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 40 A2	10	2.300	**6017134**

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the supplied FRS M6 x 20 fastening bolt.

LKS 60/4 hold-down clamp

St FT



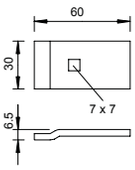


Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 FT	10	6.500	**6221122**

Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

LKS 60/4 hold-down clamp

VA VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 A2	10	8.000	**6221130**
LKS 60 4 A4	10	6.363	**6221157**

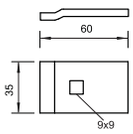
Hold-down clamp for fastening cable ladders.
Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

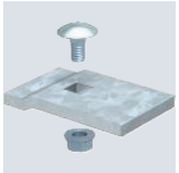
St FT

LKS 60/5 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 5 FT	10	10.000	6232485

Hold-down clamp for fastening wide span cable ladders.
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.



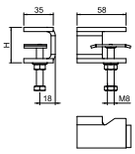


VA 2B

Hold-down clamp with KLL 32 pressure plate

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 MD A2	32	10	24.600	6221065

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.

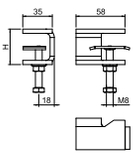


VA 2B

Hold-down clamp with pressure plate KLL 52

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 52 MD A2	52	10	26.352	6221075

Hold-down clamp for position fixing of horizontal cable ladders on horizontal steel girders.

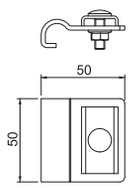


St FT

LAW support profile

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAW FT	10	9.200	6221513

Support bracket for creation of branches at different heights at a later date.

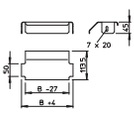


St FT

LALB support plate

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LALB 20 FT	200	1	37.700	6221858
LALB 30 FT	300	1	53.000	6221866
LALB 40 FT	400	1	73.000	6221874
LALB 50 FT	500	1	86.000	6221882
LALB 60 FT	600	1	116.000	6221890

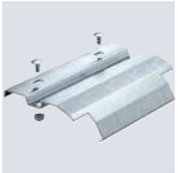
Support plate to increase the cable volume and for cable protection.

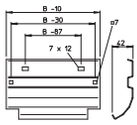


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

LAB exit plate

St FT



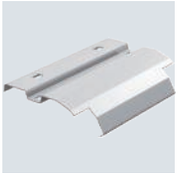


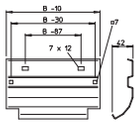
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 20 FT	200	1	37.000	**6220436**
LAB 30 FT	300	1	58.000	**6220444**
LAB 40 FT	400	1	78.000	**6220452**
LAB 50 FT	500	1	99.000	**6220460**
LAB 60 FT	600	1	120.000	**6220479**

Exit plate for installation on the rung for vertically exiting cables.

LAB exit plate

VA 2B



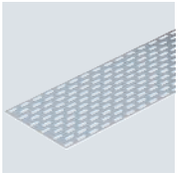


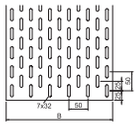
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 20 A2	200	1	26.000	**7164017**
LAB 30 A2	300	1	38.000	**7164025**
LAB 40 A2	400	1	50.000	**7164033**
LAB 50 A2	500	1	63.000	**7164041**
LAB 60 A2	600	1	75.000	**7164068**

Exit plate for installation on the rung for vertically exiting cables.

ELB-L insertion plate

St FS FT



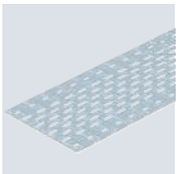


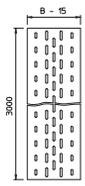
Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 FS	200	1.00	3000	3	88.500	**6103235**
ELB-L 30 FS	300	1.00	3000	3	137.400	**6103251**
ELB-L 40 FS	400	1.00	3000	3	186.300	**6103286**
ELB-L 50 FS	500	1.00	3000	3	235.200	**6103316**
ELB-L 60 FS	600	1.00	3000	3	285.070	**6103332**
ELB-L 20 FT	200	1.00	3000	3	100.240	**6103421**
ELB-L 30 FT	300	1.00	3000	3	155.640	**6103448**
ELB-L 40 FT	400	1.00	3000	3	211.040	**6103456**
ELB-L 50 FT	500	1.00	3000	3	269.740	**6103464**
ELB-L 60 FT	600	1.00	3000	3	322.870	**6103480**

Insert plate for use in cable ladders.
For fastening in wide span cable ladders, use truss-head bolts with combination nut of type FR SB 6x30.

ELB-L insertion plate

St DD





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L 20 DD	200	1.00	3000	3	88.500	**6103352**
ELB-L 30 DD	300	1.00	3000	3	137.400	**6103356**
ELB-L 40 DD	400	1.00	3000	3	186.300	**6103360**
ELB-L 50 DD	500	1.00	3000	3	235.200	**6103364**
ELB-L 60 DD	600	1.00	3000	3	285.180	**6103368**

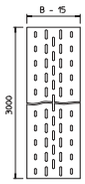
Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.

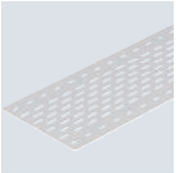
VA 2B

ELB-L insertion plate

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
ELB-L20 A2	200	1.00	3000	3	94.400	**6103614**
ELB-L30 A2	300	1.00	3000	3	146.567	**6103618**
ELB-L40 A2	400	1.00	3000	3	198.700	**6103622**
ELB-L50 A2	500	1.00	3000	3	250.867	**6103626**
ELB-L60 A2	600	1.00	3000	3	303.033	**6103630**

Insert plate for use in cable ladders.
For the fastening in wide span cable ladders use truss-head bolts with the combination nut of type FR SB 6x30.



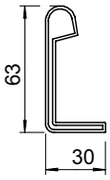


PE

Protective cap 60

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	**6222537**

Protective cap to cover cable ladder ends of side height 60 mm.

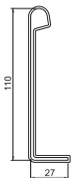


PE

End cap 110

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 110 OR	Pastel orange	20	1.345	**6222553**

End cap to cover cable ladder ends of side height 110 mm

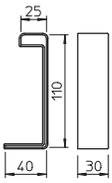


PVC

End cap 110

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	**6310398**

End cap to cover the ends of wide span cable ladders.

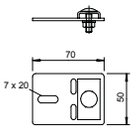


VA 2B

LAL 70 support

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAL 70 A2	20	10.200	**6221017**

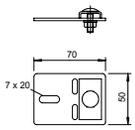
Support for fastening rising or falling cable ladders.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

LAL 70 support

St FS

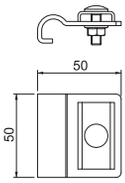


Type	Pack Piece	Weight kg/100 pc.	Item no.
LAL 70 FS	20	10.200	**6221009**

Support for fastening rising or falling cable ladders.

LAW support profile

St FT

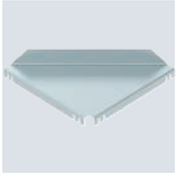


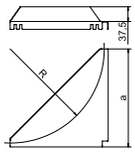
Type	Pack Piece	Weight kg/100 pc.	Item no.
LAW FT	10	9.200	**6221513**

Support bracket for creation of branches at different heights at a later date.

Corner plate

St FS DD



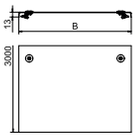


Type	Radius mm	Dim. a mm	Pack Piece	Weight kg/100 pc.	Item no.
LEB 25 FS	250	250	1	64.300	**6221203**
LEB 50 FS	500	500	1	209.300	**6221246**
LEB 25 DD	250	250	1	63.600	**6221216**
LEB 50 DD	500	500	1	205.500	**6221259**

Corner plate to increase the radius and the cable supporting surface.

Cover with turn buckle

St FS FT DD



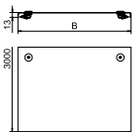
Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	**6052029**
DRL 100 FS	100	1.00	3000	3	103.000	**6052096**
DRL 150 FS	150	1.00	3000	3	141.667	**6052150**
DRL 200 FS	200	1.00	3000	3	181.340	**6052207**
DRL 300 FS	300	1.00	3000	3	259.334	**6052304**
DRL 400 FS	400	1.00	3000	3	338.670	**6052401**
DRL 500 FS	500	1.25	3000	3	623.000	**6052509**
DRL 550 FS	550	1.25	3000	3	681.670	**6052568**
DRL 600 FS	600	1.25	3000	3	741.000	**6052606**
DRL 100 FT	100	1.00	3000	3	106.670	**6051340**
DRL 200 FT	200	1.00	3000	3	202.670	**6051367**
DRL 300 FT	300	1.00	3000	3	289.000	**6051383**
DRL 400 FT	400	1.50	3000	3	542.000	**6051413**
DRL 500 FT	500	1.50	3000	3	667.670	**6051448**
DRL 600 FT	600	1.50	3000	3	793.000	**6051472**
DRL 100 DD	100	1.00	3000	3	106.340	**6052703**
DRL 150 DD	150	1.00	3000	3	145.670	**6052706**
DRL 200 DD	200	1.00	3000	3	185.000	**6052709**
DRL 300 DD	300	1.00	3000	3	263.340	**6052712**
DRL 400 DD	400	1.00	3000	3	342.070	**6052715**
DRL 500 DD	500	1.25	3000	3	626.670	**6052718**
DRL 550 DD	550	1.25	3000	3	685.340	**6052721**
DRL 600 DD	600	1.25	3000	3	744.570	**6052724**

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

VA VA 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	**6052878**
DRL 150 A2	150	1.00	3000	3	144.400	**6052886**
DRL 200 A2	200	1.00	3000	3	183.500	**6052894**
DRL 300 A2	300	1.00	3000	3	262.240	**6052908**
DRL 400 A2	400	1.00	3000	3	340.400	**6052932**
DRL 500 A2	500	1.25	3000	3	625.340	**6052959**
DRL 600 A2	600	1.25	3000	3	743.240	**6052975**
DRL 100 A4	100	1.00	3000	3	105.070	**6052980**
DRL 200 A4	200	1.00	3000	3	183.570	**6052981**
DRL 300 A4	300	1.00	3000	3	262.240	**6052983**
DRL 400 A4	400	1.00	3000	3	341.240	**6052984**
DRL 600 A4	600	1.25	3000	3	743.240	**6052986**

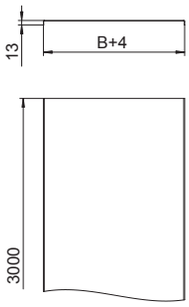


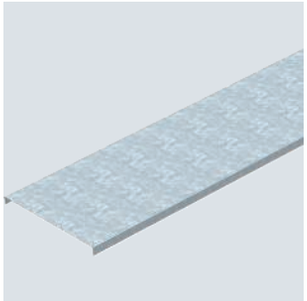
Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

St FS DD

Unperforated cover

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	**6052056**
DRLU 100 FS	100	1.00	3000	3	99.000	**6052103**
DRLU 150 FS	150	1.00	3000	3	138.267	**6052153**
DRLU 200 FS	200	1.00	3000	3	177.500	**6052210**
DRLU 300 FS	300	1.00	3000	3	256.000	**6052307**
DRLU 400 FS	400	1.00	3000	3	334.500	**6052405**
DRLU 500 FS	500	1.50	3000	3	619.234	**6052512**
DRLU 550 FS	550	1.50	3000	3	678.100	**6052571**
DRLU 600 FS	600	1.50	3000	3	737.000	**6052609**
DRLU 050 DD	50	1.00	3000	3	59.770	**6052640**
DRLU 100 DD	100	1.00	3000	3	99.000	**6052643**
DRLU 150 DD	150	1.00	3000	3	138.267	**6052647**
DRLU 200 DD	200	1.00	3000	3	177.500	**6052650**
DRLU 300 DD	300	1.00	3000	3	256.000	**6052656**
DRLU 400 DD	400	1.00	3000	3	334.500	**6052662**
DRLU 500 DD	500	1.50	3000	3	619.234	**6052668**
DRLU 550 DD	550	1.50	3000	3	678.100	**6052671**
DRLU 600 DD	600	1.50	3000	3	737.000	**6052674**



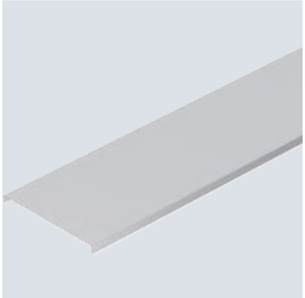


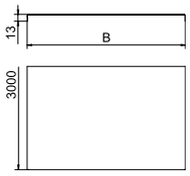
Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Unperforated cover

VA VA 2B





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	**6052821**
DRLU 100 A2	100	1.00	3000	3	99.000	**6052824**
DRLU 150 A2	150	1.00	3000	3	138.234	**6052828**
DRLU 200 A2	200	1.00	3000	3	177.500	**6052831**
DRLU 300 A2	300	1.00	3000	3	256.000	**6052834**
DRLU 400 A2	400	1.00	3000	3	334.500	**6052837**
DRLU 500 A2	500	1.50	3000	3	619.167	**6052841**
DRLU 600 A2	600	1.50	3000	3	736.900	**6052844**
DRLU 100 A4	100	1.00	3000	3	99.000	**6052991**
DRLU 150 A4	150	1.00	3000	3	138.234	**6052992**
DRLU 200 A4	200	1.00	3000	3	177.500	**6052993**
DRLU 300 A4	300	1.00	3000	3	256.000	**6052994**
DRLU 400 A4	400	1.00	3000	3	334.500	**6052995**
DRLU 500 A4	500	1.25	3000	3	619.167	**6052996**
DRLU 600 A4	600	1.25	3000	3	736.900	**6052998**

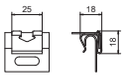
Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Cover clamp

VA 2B



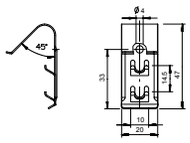
Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	**6052810**

Cover clamp for secure fastening of covers on cable trays and cable ladders.

At least 6 cover clamps should be mounted for each 3 metres of cover.

Cover clamp, universal

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	**6065600**

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.

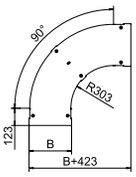
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.

Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

St FS FT

Cover for 90° bend LBD R3

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LBD 90 200 R3 FS	200	1.00	1	145.000	**6225990**
LBD 90 300 R3 FS	300	1.00	1	232.000	**6225992**
LBD 90 400 R3 FS	400	1.00	1	331.000	**6225994**
LBD 90 500 R3 FS	500	1.25	1	550.000	**6225996**
LBD 90 600 R3 FS	600	1.25	1	705.000	**6225998**
LBD 90 200 R3 FT	200	1.00	1	158.000	**6226010**
LBD 90 300 R3 FT	300	1.00	1	251.000	**6226012**
LBD 90 400 R3 FT	400	1.00	1	359.000	**6226014**
LBD 90 500 R3 FT	500	1.25	1	589.000	**6226018**
LBD 90 600 R3 FT	600	1.25	1	755.000	**6226020**

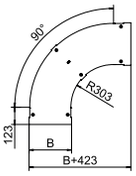


Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

VA VA 2B

Cover for 90° bend LBD R3

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LBD 90 200 R3 A2	200	1.00	1	158.000	**6226050**
LBD 90 300 R3 A2	300	1.00	1	246.000	**6226052**
LBD 90 400 R3 A2	400	1.00	1	346.000	**6226054**
LBD 90 500 R3 A2	500	1.25	1	568.000	**6226056**
LBD 90 600 R3 A2	600	1.25	1	725.000	**6226058**
LBD 90 200 R3 A4	200	1.00	1	159.000	**6226070**
LBD 90 300 R3 A4	300	1.00	1	248.000	**6226072**
LBD 90 400 R3 A4	400	1.00	1	350.000	**6226074**
LBD 90 500 R3 A4	500	1.25	1	575.000	**6226076**
LBD 90 600 R3 A4	600	1.25	1	734.000	**6226078**

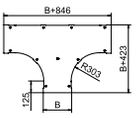


Cover with turn buckles for covering 90° cable ladder bends with welded rungs.

St FS FT

Cover for LTD R3 T piece

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 FS	200	1.00	1	274.000	**6226100**
LTD 300 R3 FS	300	1.00	1	413.000	**6226102**
LTD 400 R3 FS	400	1.00	1	567.000	**6226104**
LTD 500 R3 FS	500	1.25	1	737.000	**6226106**
LTD 600 R3 FS	600	1.25	1	922.000	**6226108**
LTD 200 R3 FT	200	1.00	1	298.000	**6226120**
LTD 300 R3 FT	300	1.00	1	450.000	**6226122**
LTD 400 R3 FT	400	1.00	1	617.000	**6226124**
LTD 500 R3 FT	500	1.25	1	775.000	**6226128**
LTD 600 R3 FT	600	1.25	1	989.000	**6226130**

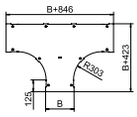


Cover with turn buckles for covering T pieces with welded rungs.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover for LTD R3 T piece

VA VA 2B

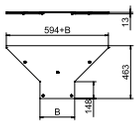


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 A2	200	1.00	1	287.000	**6226160**
LTD 300 R3 A2	300	1.00	1	429.000	**6226162**
LTD 400 R3 A2	400	1.00	1	585.000	**6226164**
LTD 500 R3 A2	500	1.25	1	757.000	**6226166**
LTD 600 R3 A2	600	1.25	1	943.000	**6226168**
LTD 200 R3 A4	200	1.00	1	291.000	**6226180**
LTD 300 R3 A4	300	1.00	1	434.000	**6226182**
LTD 400 R3 A4	400	1.00	1	592.000	**6226184**
LTD 500 R3 A4	500	1.25	1	766.000	**6226186**
LTD 600 R3 A4	600	1.25	1	955.000	**6226188**

Cover with turn buckles for covering T pieces with welded rungs.

Cover for add-on tee LAAD R3

St FS FT

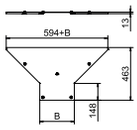


Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 FS	200	1.00	1	171.000	**6226310**
LAAD 300 R3 FS	300	1.00	1	203.000	**6226312**
LAAD 400 R3 FS	400	1.00	1	303.000	**6226314**
LAAD 500 R3 FS	500	1.25	1	351.000	**6226316**
LAAD 600 R3 FS	600	1.25	1	397.000	**6226318**
LAAD 200 R3 FT	200	1.00	1	180.000	**6226330**
LAAD 300 R3 FT	300	1.00	1	219.000	**6226332**
LAAD 400 R3 FT	400	1.00	1	316.000	**6226334**
LAAD 500 R3 FT	500	1.25	1	365.000	**6226338**
LAAD 600 R3 FT	600	1.25	1	414.000	**6226340**

Cover with turn buckles for covering add-on tee with welded rungs.

Cover for add-on tee

VA VA 2B



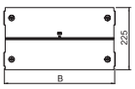
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 A2	200	1.00	1	180.000	**6226361**
LAAD 300 R3 A2	300	1.00	1	219.000	**6226363**
LAAD 400 R3 A2	400	1.25	1	316.000	**6226365**
LAAD 500 R3 A2	500	1.25	1	365.000	**6226367**
LAAD 600 R3 A2	600	1.25	1	414.000	**6226369**
LAAD 200 R3 A4	200	1.00	1	180.000	**6226381**
LAAD 300 R3 A4	300	1.00	1	219.000	**6226383**
LAAD 400 R3 A4	400	1.25	1	316.000	**6226385**
LAAD 500 R3 A4	500	1.25	1	365.000	**6226387**
LAAD 600 R3 A4	600	1.25	1	414.000	**6226389**

Cover with turn buckles for covering add-on tees with welded rungs.

St FS FT

Cover for LGBED adjustable vertical bend element

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBED 200 FS	200	1.00	1	42.000	6226210
LGBED 300 FS	300	1.00	1	60.000	6226212
LGBED 400 FS	400	1.00	1	78.000	6226214
LGBED 500 FS	500	1.25	1	117.000	6226216
LGBED 600 FS	600	1.25	1	139.000	6226218
LGBED 200 FT	200	1.00	1	45.000	6226230
LGBED 300 FT	300	1.00	1	65.000	6226232
LGBED 400 FT	400	1.00	1	85.000	6226234
LGBED 500 FT	500	1.25	1	125.000	6226238
LGBED 600 FT	600	1.25	1	149.000	6226240

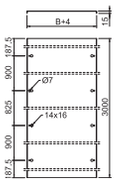


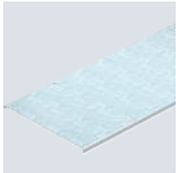
Cover with sash locks for covering adjustable bends with welded rungs.

St FT

Cover for stand-off mounting

Type	Width mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 FT	230	1.50	3000	3	319.240	6051222
DRL FAM 330 FT	330	1.50	3000	3	444.800	6051224
DRL FAM 430 FT	430	1.50	3000	3	570.370	6051226
DRL FAM 530 FT	530	1.50	3000	3	695.900	6051228
DRL FAM 630 FT	630	1.50	3000	3	821.470	6051230





Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

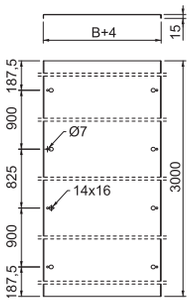
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

VA VA 2B

Cover for stand-off mounting

Type	Width mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 A2	230	1.50	3000	3	299.370	6051192
DRL FAM 330 A2	330	1.50	3000	3	417.140	6051194
DRL FAM 430 A2	430	1.50	3000	3	534.870	6051196
DRL FAM 530 A2	530	1.50	3000	3	652.640	6051198
DRL FAM 630 A2	630	1.50	3000	3	770.370	6051200
DRL FAM 230 A4	230	1.50	3000	3	299.370	6051210
DRL FAM 330 A4	330	1.50	3000	3	417.140	6051212
DRL FAM 430 A4	430	1.50	3000	3	534.870	6051214
DRL FAM 530 A4	530	1.50	3000	3	652.640	6051216
DRL FAM 630 A4	630	1.50	3000	3	770.370	6051218



Spacers must be ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

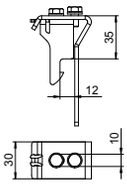
Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

VA 2B

Spacer for cover

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	6065475



Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Vertical ladder systems

OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty vertical ladders with a side height of 45 mm, as a heavy-duty vertical ladder with U profiles and industrial vertical ladders with I profiles. Both the heavy-duty and industrial vertical ladders can be assembled in variable lengths.

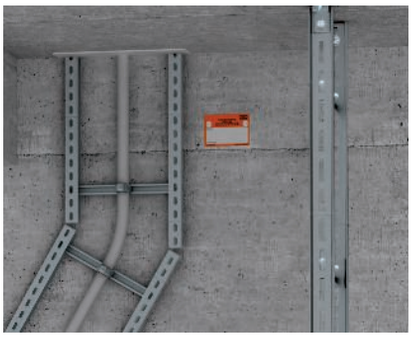
Installation principle

1	Light-duty vertical ladder
2	Heavy-duty vertical ladder
3	Industrial vertical cable ladder
4	Cover with spacer
5	Rung seat with MS4022 rung

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

Wall mounting application
Wall mounting of a vertical ladder with mounting angles.



Change of direction application
Implementation of a change of direction with heavy-duty vertical ladder, type SLM.

Free-standing vertical ladder application
Mounting example for free-standing industrial vertical ladders, type SLS, fastened to the ceiling and floor.

Straight connection of vertical ladders
Connection of vertical ladders, types LG and SSL 60, with connectors, type LVG.

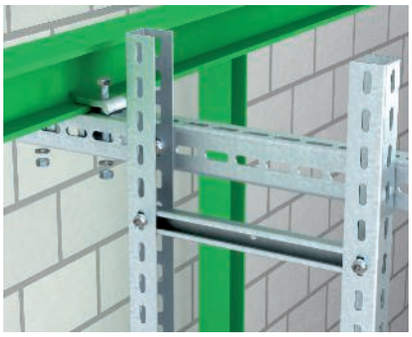
Angle connection of cable ladders
Creation of flexible vertical ladder angles with angle connector, type LWVG.

Adjustable connection of cable ladders
Creation of flexible vertical ladder angles with adjustable connector, type LGVG.

Wall mounting, light-duty vertical ladder
Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.

Direct wall mounting
Direct fastening of the vertical ladders LG and SSL with anchor bolts on the wall.

Wall mounting, heavy-duty vertical ladder
Wall mounting of heavy-duty vertical ladder, type SLM 50, with mounting angle, type BW.



Vertical ladder mounting on steel
Installation of the heavy-duty vertical ladder, type SLM 50, with cantilever beam made of U profile, on a steel construction.

Cable fastening with U clamp
Fastening of cables to the rung with clamp clips.

Fastening of industrial vertical ladder
Wall mounting of industrial vertical ladder with mounting angle, type BW 80/55.

Fastening of C profile rung
Fastening of C profile rung, type CK 40, in industrial vertical ladders, type SLS 80.

Fastening of angle rung
Fastening of the angle rung, type WSK 40, in industrial vertical ladders, type SLS 80.

Ceiling fastening
Fastening of a industrial vertical ladder, type SLS 80, to the ceiling using mounting angle, type BW.

Illustration of vertical shaft
Illustration of complete vertical ladder mounting.

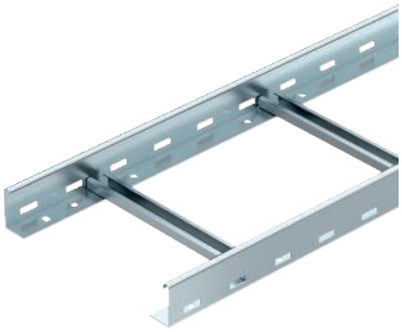
Rung seat fixed to IS 8 support
Fastening of the rung seat, type SA, with profile rail, type MS 4022, in I support.

Rung seat in steel girder
Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type MS 4022, on steel girder.

Cover mounting, vertical
Installation of the cover with spacer on a vertical ladder.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 60, 3 m VS



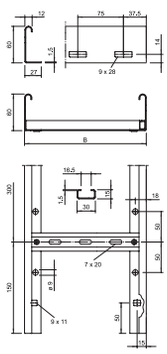
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FS	200		3	267.000	**6208538**
LG 630 VS 3 FS	300		3	288.933	**6208541**
LG 640 VS 3 FS	400		3	314.600	**6208544**
LG 650 VS 3 FS	500		3	332.600	**6208547**
LG 660 VS 3 FS	600		3	354.266	**6208550**
LG 620 VS 3 FT	200		3	285.066	**6208562**
LG 630 VS 3 FT	300		3	308.000	**6208566**
LG 640 VS 3 FT	400		3	331.000	**6208570**
LG 650 VS 3 FT	500		3	354.733	**6208574**
LG 660 VS 3 FT	600		3	385.400	**6208578**

St Steel

FS Strip galvanised FT Hot-dip galvanised

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.
Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Dimensions



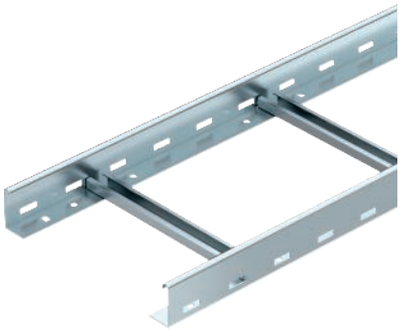
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Cable ladder LG 60, 6 m VS

Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FS	200		6	267.066	**6208627**
LG 630 VS 6 FS	300		6	288.733	**6208630**
LG 640 VS 6 FS	400		6	314.400	**6208633**
LG 650 VS 6 FS	500		6	332.400	**6208636**
LG 660 VS 6 FS	600		6	354.066	**6208639**
LG 620 VS 6 FT	200		6	284.833	**6208650**
LG 630 VS 6 FT	300		6	307.833	**6208653**
LG 640 VS 6 FT	400		6	330.833	**6208656**
LG 650 VS 6 FT	500		6	354.500	**6208659**
LG 660 VS 6 FT	600		6	385.166	**6208661**

St Steel

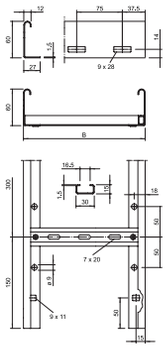
FS Strip galvanised FT Hot-dip galvanised



The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056.
The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.
Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

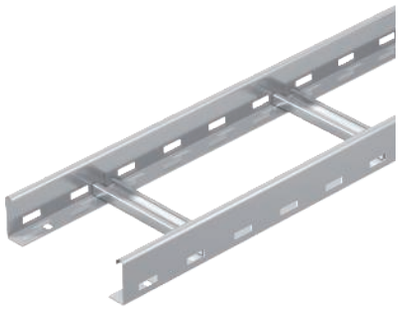
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm^2	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300

Dimensions



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cable ladder LG 60, 6 m VS



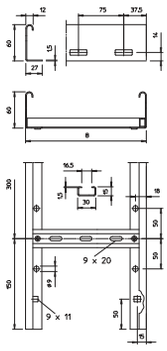
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200	6	267.067	**6208700**
LG 630 VS6 A2	300	6	288.733	**6208703**
LG 640 VS6 A2	400	6	314.400	**6208706**
LG 650 VS6 A2	500	6	332.400	**6208709**
LG 660 VS6 A2	600	6	354.066	**6208712**
LG 620 VS6 A4	200	6	267.733	**6101200**
LG 630 VS6 A4	300	6	288.733	**6101208**
LG 640 VS6 A4	400	6	314.400	**6101216**
LG 650 VS6 A4	500	6	341.666	**6101223**
LG 660 VS6 A4	600	6	354.000	**6101232**

A2 Stainless steel, rustproof 1.4301 A4 Stainless steel, rustproof 1.4571

2B Bright, reworked

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.
Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Dimensions

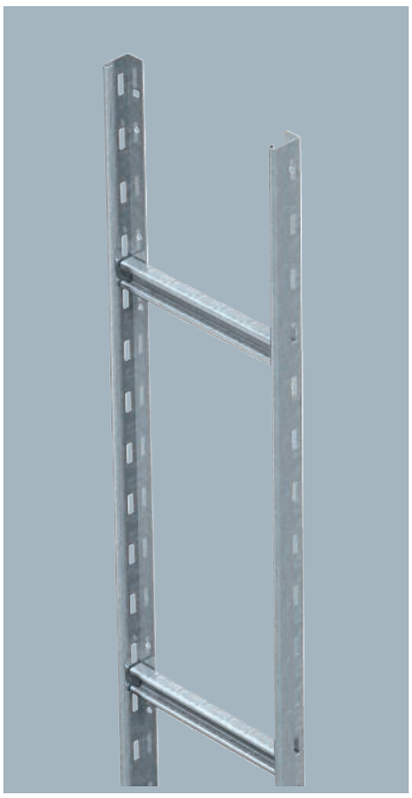


Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

St FS

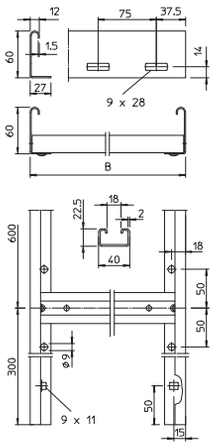
SLL 60 medium-duty vertical ladder, 6 m

Type	Width mm	Rail thick-ness mm		Pack m	Weight kg/100 m	Item no.
SLL 620 CPS 4 FS	200	1.5		6	274.600	**6010620**
SLL 630 CPS 4 FS	300	1.5		6	300.767	**6010622**
SLL 640 CPS 4 FS	400	1.5		6	326.933	**6010624**
SLL 650 CPS 4 FS	500	1.5		6	353.267	**6010626**
SLL 660 CPS 4 FS	600	1.5		6	379.433	**6010628**



Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate clamp clip is type 2056U.

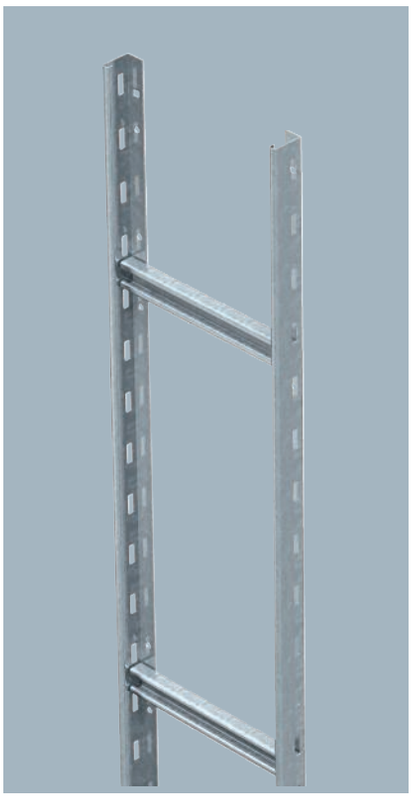


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Medium-duty vertical ladder

SLL 60 medium-duty vertical ladder, 6 m

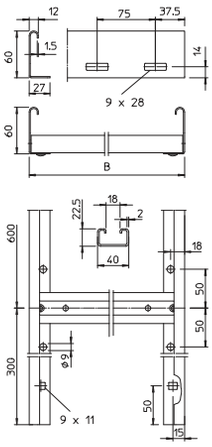
St FT



Type	Width mm	Rail thick-ness mm		Pack m	Weight kg/100 m	Item no.
SLL 620 CPS 4 FT	200	1.5		6	291.933	**6010630**
SLL 630 CPS 4 FT	300	1.5		6	319.433	**6010632**
SLL 640 CPS 4 FT	400	1.5		6	346.933	**6010634**
SLL 650 CPS 4 FT	500	1.5		6	374.600	**6010636**
SLL 660 CPS 4 FT	600	1.5		6	401.933	**6010638**

Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

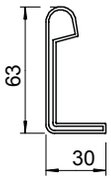
Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate clamp clip is type 2056U.



System accessories

Protective cap 60

PE



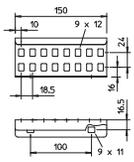
Type	Colour		Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange		40	1.072	**6222537**

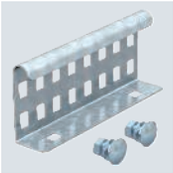
Protective cap to cover cable ladder ends of side height 60 mm.

St FS FT

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843





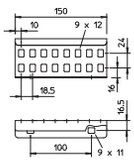
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

VA VA 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	6208846
LVG 60 A4	60	10	20.000	6208835



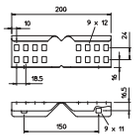
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

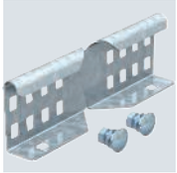
The bolt fastening ensures the continuity of the equipotential bonding.

St FS

Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	6208895





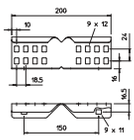
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

VA VA 2B

Angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	6208898
LWVG 60 A4	60	10	24.256	6208891



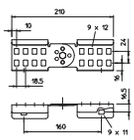
The bolt fastening ensures the continuity of the equipotential bonding.

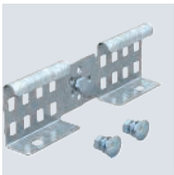
Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	6208941
LGVG 60 FT	60	10	29.900	6208944





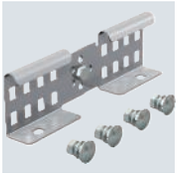
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

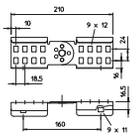
The bolt fastening ensures the continuity of the equipotential bonding.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Adjustable connector 60

VA VA 2B





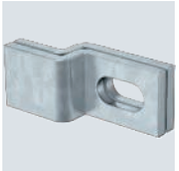
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	**6208947**
LGVG 60 A4	60	10	28.500	**6208932**

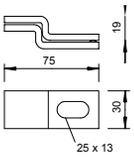
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

Wall bracket

St FT



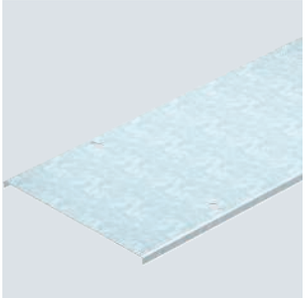


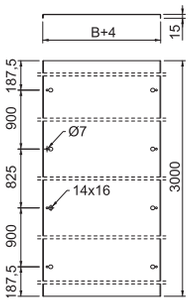
Type	Pack Piece	Weight kg/100 pc.	Item no.
WB 30 75 FT	10	18.100	**6019617**

Wall bracket for fastening vertical ladders to concrete walls and masonry.

Cover for stand-off mounting

St FT





Type	Width mm	Metal thickness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL FAM 230 FT	230	1.50	3000	3	319.240	**6051222**
DRL FAM 330 FT	330	1.50	3000	3	444.800	**6051224**
DRL FAM 430 FT	430	1.50	3000	3	570.370	**6051226**
DRL FAM 530 FT	530	1.50	3000	3	695.900	**6051228**
DRL FAM 630 FT	630	1.50	3000	3	821.470	**6051230**

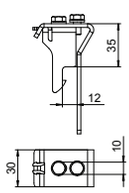
Spacers must ordered separately for every 3 m under article number 6065475 for cable trays and cable ladders as well as under article number 6065477 for wide span systems.

Cover for stand-off mounting. Not suitable for the vertical ladders SLM and SLS.

When using covers outdoors, additional measures against the influence of wind must be taken.

Spacer for cover

VA 2B



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
AH 35 A2	35	8	14.100	**6065475**

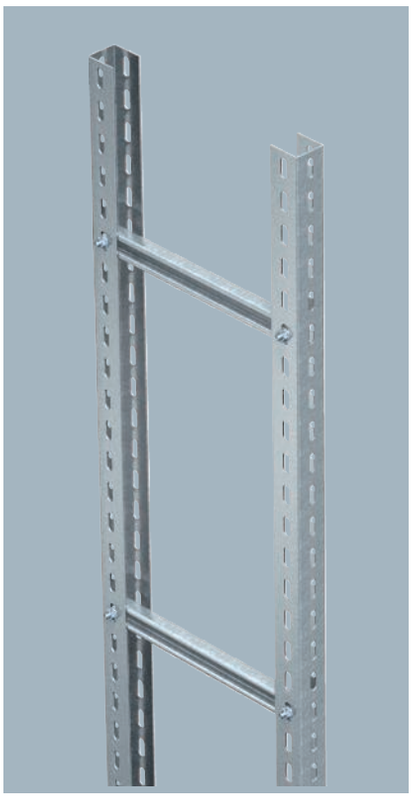
Spacers for stand-off cover mounting on cable trays and cable ladders. Space height 35 mm, stainless steel 1.4301.

St FT

US5

Heavy-duty vertical cable ladder SLM 50, 3 m C40

Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
SLM 50 C40 2 FT	200	2.5	3	572.500	**6010466**
SLM 50 C40 3 FT	300	2.5	3	600.167	**6010474**
SLM 50 C40 4 FT	400	2.5	3	627.833	**6010482**
SLM 50 C40 5 FT	500	2.5	3	655.333	**6010490**
SLM 50 C40 6 FT	600	2.5	3	683.000	**6010504**
SLM 50 C40 7 FT	700	2.5	3	710.667	**6010512**
SLM 50 C40 8 FT	800	2.5	3	738.167	**6010520**
SLM 50 C40 9 FT	900	2.5	3	765.833	**6010539**
SLM 50 C40 10 FT	1000	2.5	3	793.500	**6010547**
SLM 50 C40 11 FT	1100	2.5	3	821.000	**6010555**
SLM 50 C40 12 FT	1200	2.5	3	848.667	**6010563**

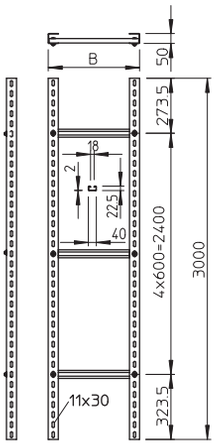


The vertical ladder with a 50 mm side height is shipped in an unmounted state and must be screwed together on the construction site.

The appropriate clamp clip for the C profile rung is type 2056U.

Type	Length mm	Dim. B mm	Rung spacing mm
SLM 50 C40 2 FT	3000	200	600
SLM 50 C40 3 FT	3000	300	600
SLM 50 C40 4 FT	3000	400	600
SLM 50 C40 5 FT	3000	500	600
SLM 50 C40 6 FT	3000	600	600
SLM 50 C40 7 FT	3000	700	600
SLM 50 C40 8 FT	3000	800	600
SLM 50 C40 9 FT	3000	900	600
SLM 50 C40 10 FT	3000	1000	600
SLM 50 C40 11 FT	3000	1100	600
SLM 50 C40 12 FT	3000	1200	600

Dimensions

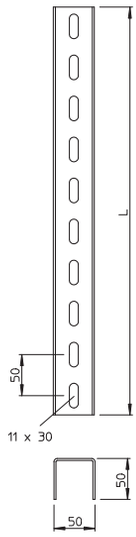


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Heavy-duty vertical ladder

US 5 support

St FT



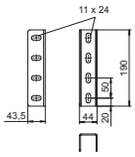
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 FT	200	2.5		1	51.000	**6340881**
US 5 30 FT	300	2.5		1	79.000	**6340903**
US 5 40 FT	400	2.5		1	106.000	**6340911**
US 5 50 FT	500	2.5		1	133.000	**6340938**
US 5 60 FT	600	2.5		1	160.000	**6340946**
US 5 70 FT	700	2.5		1	175.000	**6340950**
US 5 80 FT	800	2.5		1	200.000	**6340954**
US 5 90 FT	900	2.5		1	227.000	**6340958**
US 5 100 FT	1000	2.5		1	265.000	**6340962**
US 5 110 FT	1100	2.5		1	278.000	**6340964**
US 5 150 FT	1500	2.5		1	395.000	**6340966**
US 5 200 FT	2000	2.5		1	506.000	**6340970**
US 5 300 FT	3000	2.5		1	795.000	**6340989**
US 5 600 FT	6000	2.5		1	1,578.000	**6340997**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

VUS 5 U support connector

St FT



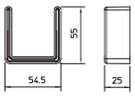
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT	10	44.000	**6018505**

U support connector to connect US 5 supports.

Including appropriate fastening material.

Protective cap

PE



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	**6338462**

Protective cap to cover the ends of US 5 supports.

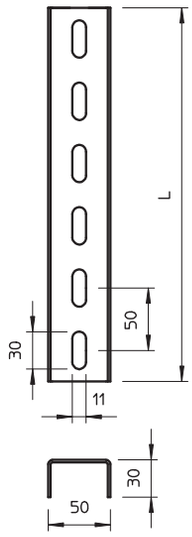
St FT

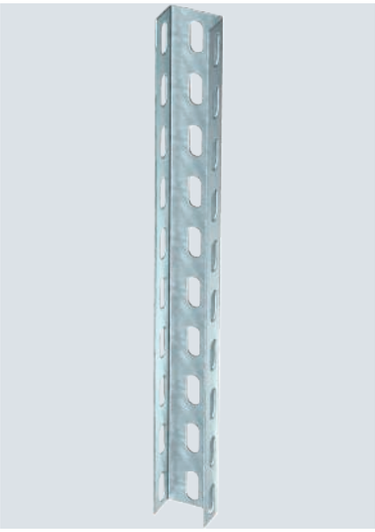
US 3 support

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
US 3 600 FT	6000	2		1	834.000	**6342450**

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.





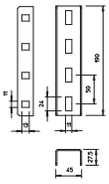
St FT

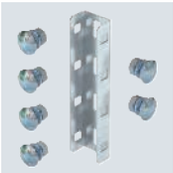
VUS 3 U support connector

Type		Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT		10	48.300	**6018513**

U support connector to connect US 3 supports.

Including appropriate fastening material.



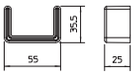


PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	**6338458**

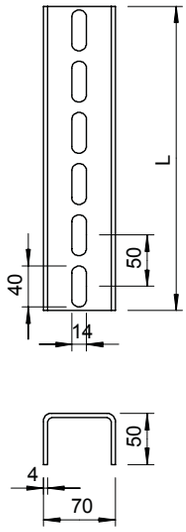
Protective cap to cover the ends of US 3 supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 7 support

St FT



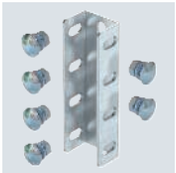
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 FT	200	4		1	81.000	**6340016**
US 7 30 FT	300	4		1	121.000	**6340032**
US 7 40 FT	400	4		1	160.700	**6340059**
US 7 50 FT	500	4		1	200.900	**6340075**
US 7 60 FT	600	4		1	241.100	**6340091**
US 7 70 FT	700	4		1	281.300	**6340113**
US 7 80 FT	800	4		1	323.000	**6340148**
US 7 100 FT	1000	4		1	416.000	**6340180**
US 7 120 FT	1200	4		1	484.000	**6340202**
US 7 130 FT	1300	4		1	540.000	**6340210**
US 7 140 FT	1400	4		1	580.000	**6340229**
US 7 150 FT	1500	4		1	620.000	**6340237**
US 7 160 FT	1600	4		1	660.000	**6340245**
US 7 170 FT	1700	4		1	686.000	**6340253**
US 7 180 FT	1800	4		1	750.000	**6340261**
US 7 190 FT	1900	4		1	790.000	**6340288**
US 7 200 FT	2000	4		1	803.700	**6340296**
US 7 300 FT	3000	4		1	1,250.000	**6340377**
US 7 400 FT	4000	4		1	1,660.000	**6340393**
US 7 600 FT	6000	4		1	2,490.000	**6340318**

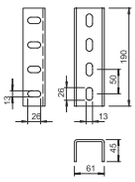
U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

VUS 7 U support connector

St FT





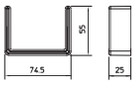
Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT	10	112.800	**6018378**

U support connector to connect US 7 supports.

Including appropriate fastening material.

End cap

PE



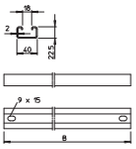
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	**6338497**

Protective cap to cover the ends of US 7 supports.

St FT

MS4022 profile rail, heavy-duty, slot 18 mm

Type	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MS4022P0192FT	2	192	1	31.800	**6007201**
MS4022P0292FT	2	292	1	44.700	**6007228**
MS4022P0392FT	2	392	1	60.100	**6007236**
MS4022P0492FT	2	492	1	81.500	**6007244**
MS4022P0592FT	2	592	1	96.000	**6007252**
MS4022P0692FT	2	692	1	113.000	**6007260**
MS4022P0792FT	2	792	1	130.000	**6007279**
MS4022P0892FT	2	892	1	145.000	**6007287**
MS4022P0992FT	2	992	1	162.000	**6007295**
MS4022P1092FT	2	1092	1	178.000	**6007309**
MS4022P1192FT	2	1192	1	197.500	**6007317**

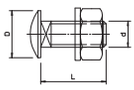


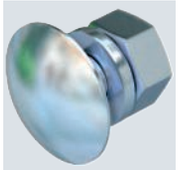
MS4022 profile rail for use as rung in heavy-duty ladders.

St F

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	**6406963**
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	**6406998**
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	**6407048**



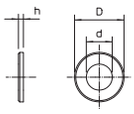


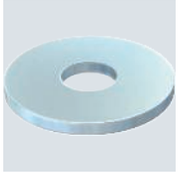
Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

St F

Large washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 9 F	M8	9	28	3	100	1.057	**6408710**





Washer of particularly large outer diameter.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Industrial vertical cable ladder, 6 m C40

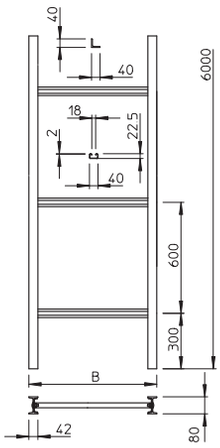
St FT IS8

Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLS 80 C40 2 FT	200	6	1,277.167	**6013384**
SLS 80 C40 3 FT	300	6	1,304.833	**6013392**
SLS 80 C40 4 FT	400	6	1,286.667	**6013406**
SLS 80 C40 5 FT	500	6	1,360.000	**6013414**
SLS 80 C40 6 FT	600	6	1,387.667	**6013422**
SLS 80 C40 7 FT	700	6	1,415.333	**6013430**
SLS 80 C40 8 FT	800	6	1,443.000	**6013449**
SLS 80 C40 9 FT	900	6	1,470.667	**6013457**
SLS 80 C40 10 FT	1000	6	1,498.167	**6013465**
SLS 80 C40 11 FT	1100	6	1,525.833	**6013473**
SLS 80 C40 12 FT	1200	6	1,553.333	**6013481**

Vertical ladder of side height 80 mm with screwed-in rungs.

The vertical ladder is shipped in an unmounted state.
The appropriate clamp clip is type 2056U.

Dimensions



Type	Length mm	Dim. B mm	Rung spacing mm
SLS 80 C40 2 FT	6000	200	600
SLS 80 C40 3 FT	6000	300	600
SLS 80 C40 4 FT	6000	400	600
SLS 80 C40 5 FT	6000	500	600
SLS 80 C40 6 FT	6000	600	600
SLS 80 C40 7 FT	6000	700	600
SLS 80 C40 8 FT	6000	800	600
SLS 80 C40 9 FT	6000	900	600
SLS 80 C40 10 FT	6000	1000	600
SLS 80 C40 11 FT	6000	1100	600
SLS 80 C40 12 FT	6000	1200	600

St FT

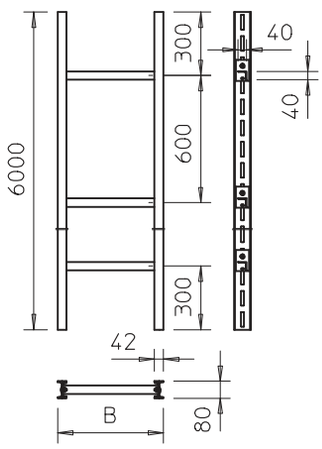
Industrial vertical cable ladder, 6 m W40

Type	Width mm	Rail thick-ness mm	Side height mm	Pack m	Weight kg/100 m	Item no.
SLS 80 W40 4 FT	400	–	80	6	1,373.500	**6013848**
SLS 80 W40 5 FT	500	–	80	6	1,414.833	**6013856**
SLS 80 W40 6 FT	600	–	80	6	1,454.000	**6013864**
SLS 80 W40 7 FT	700	–	80	6	1,494.833	**6013872**
SLS 80 W40 8 FT	800	–	80	6	1,536.667	**6013880**
SLS 80 W40 9 FT	900	–	80	6	1,586.000	**6013899**
SLS 80 W40 10 FT	1000	–	80	6	1,627.167	**6013902**

The vertical ladder is shipped in an unmounted state.
The appropriate U clamp is type 2056W.
Vertical ladder of side height 80 mm with screwed-in rungs.

Type	Length mm	Dim. B mm	Rung spacing mm
SLS 80 W40 4 FT	6000	–	600
SLS 80 W40 5 FT	6000	–	600
SLS 80 W40 6 FT	6000	–	600
SLS 80 W40 7 FT	6000	–	600
SLS 80 W40 8 FT	6000	–	600
SLS 80 W40 9 FT	6000	–	600
SLS 80 W40 10 FT	6000	–	600

Dimensions

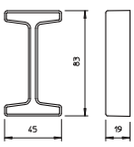


PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange	20	0.705	**6338519**

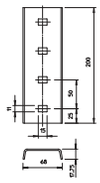
End cap to cover the ends of IS 8 supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

VIS 8 I support connector

St FT

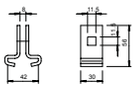


Type	Pack Piece	Weight kg/100 pc.	Item no.
VIS 8 FT	10	87.000	6018300

I support connector to connect IS 8 supports.
Including appropriate fastening material.

Support claw

St FT

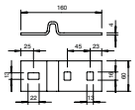


Type	Pack Piece	Weight kg/100 pc.	Item no.
TGK 30 42 FT	10	17.000	6018963

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.
Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

Support strap

St FT

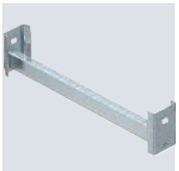


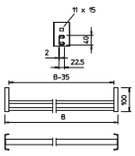
Type	Pack Piece	Weight kg/100 pc.	Item no.
AHIS 8 FT	10	89.900	6019064

Including appropriate fastening material.
Support strap for right-angled connection of I supports.

Rung CK 40

St FT



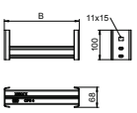


Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
CK 40 20 FT	154	1	62.300	6008224
CK 40 30 FT	254	1	95.500	6008232
CK 40 40 FT	354	1	95.500	6008240
CK 40 50 FT	454	1	112.000	6008259
CK 40 60 FT	554	1	128.600	6008267
CK 40 70 FT	654	1	145.200	6008275
CK 40 80 FT	754	1	162.000	6008283
CK 40 90 FT	854	1	178.400	6008291
CK 40 100 FT	954	1	194.900	6008305
CK 40 110 FT	1054	1	211.500	6008313
CK 40 120 FT	1154	1	228.000	6008321

The maximum rung load is 175 kg.
CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

Rung CKD 40

St FT



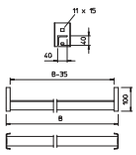
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
CKD 40 60 FT	554	1	211.000	6008269
CKD 40 70 FT	654	1	243.000	6008277
CKD 40 80 FT	754	1	275.000	6008285
CKD 40 90 FT	854	1	307.000	6008293

The maximum rung load is 175 kg.
CKD40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

St FT

Rung WSK 40

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
WSK 40 40 FT	354	1	122.000	6008046
WSK 40 50 FT	454	1	147.000	6008054
WSK 40 60 FT	554	1	172.000	6008062
WSK 40 70 FT	654	1	197.000	6008070
WSK 40 80 FT	754	1	222.000	6008089
WSK 40 90 FT	854	1	245.000	6008097
WSK 40 100 FT	954	1	272.000	6008100

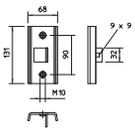


The maximum rung load is 250 kg.
Angle profile rungs for use in heavy-duty vertical ladders and in IS 8 supports.

St FT

Rung seat

Type	Pack Pair	Weight kg/100 pairs	Item no.
SA MS4022 FT	5	84.000	6007496

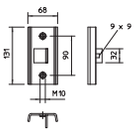


The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts M10 x 25 mm.
Rung seat for fastening rungs of type MS4022 to IS 8 supports.

St FT

Rung seat for steel supports

Type	Pack Pair	Weight kg/100 pairs	Item no.
SAA MS4022 FT	5	82.600	6007498



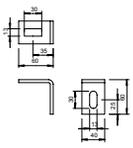
The set consists of two rung seats, two hexagonal bolts M8 x 16 mm and four hexagonal bolts with an M10 x 30 application tip.
Rung seat for fastening rungs of type MS4022 to steel girders.

System accessories

St FT

Mounting angle BW 60

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 60 40 FT	10	23.000	6019560

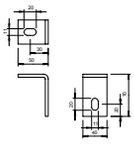


Including truss-head bolt M12 x 25.
Mounting angle of limb dimension 60 x 60 mm.

St FT

Mounting angle BW 70

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 70 40 FT	10	20.100	6019706

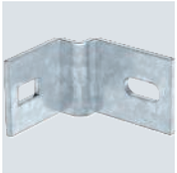


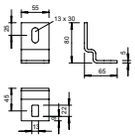
Including truss-head bolt M10 x 25.
Mounting angle of limb dimension 70 x 50 mm.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting angle BW 80

St FT

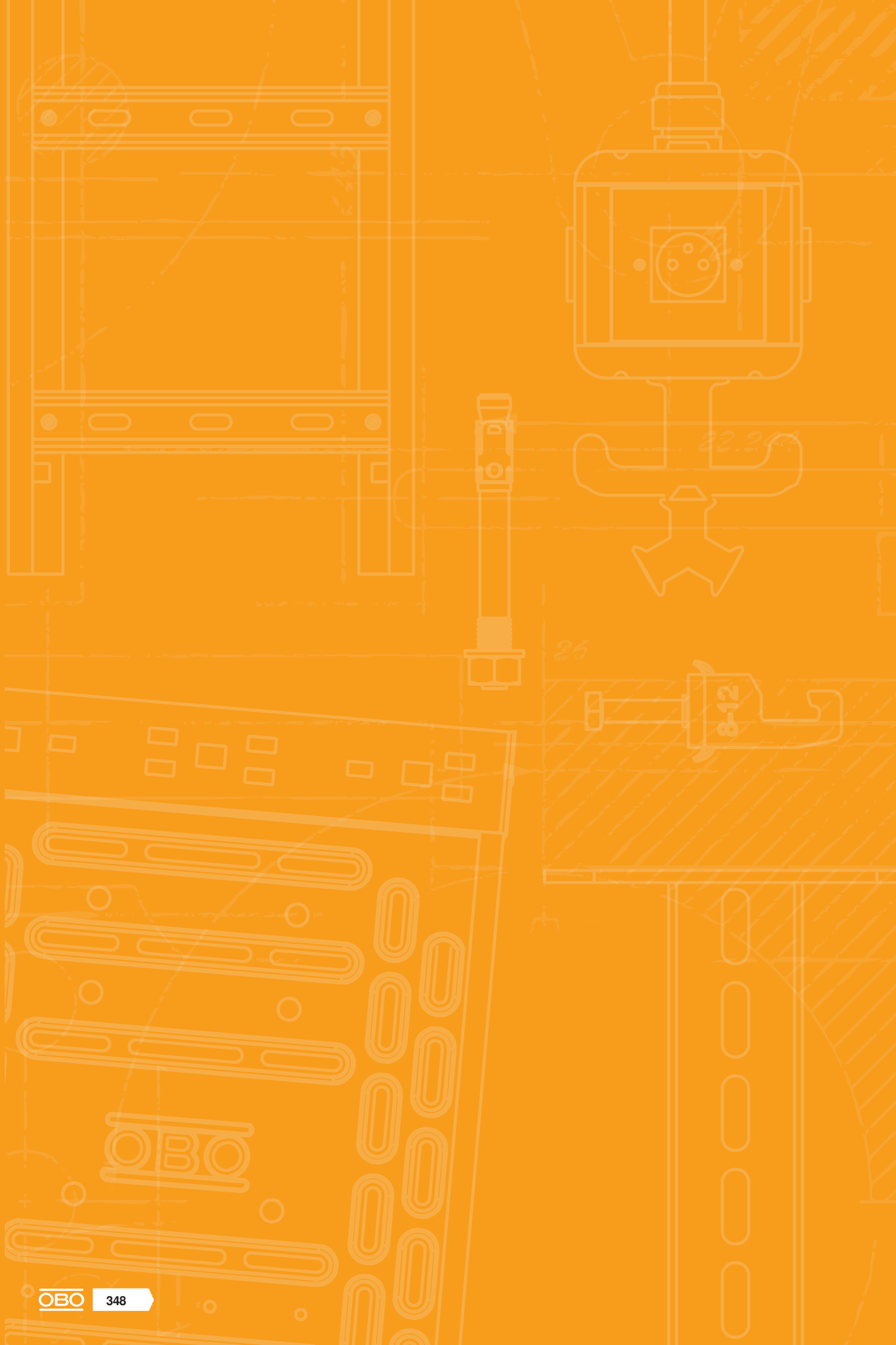




Type		Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT		10	32.900	**6019528**

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12x30.

Mounting angle for mounting IS 8 supports on the wall.



Luminaire support systems

Luminaire support channel 350

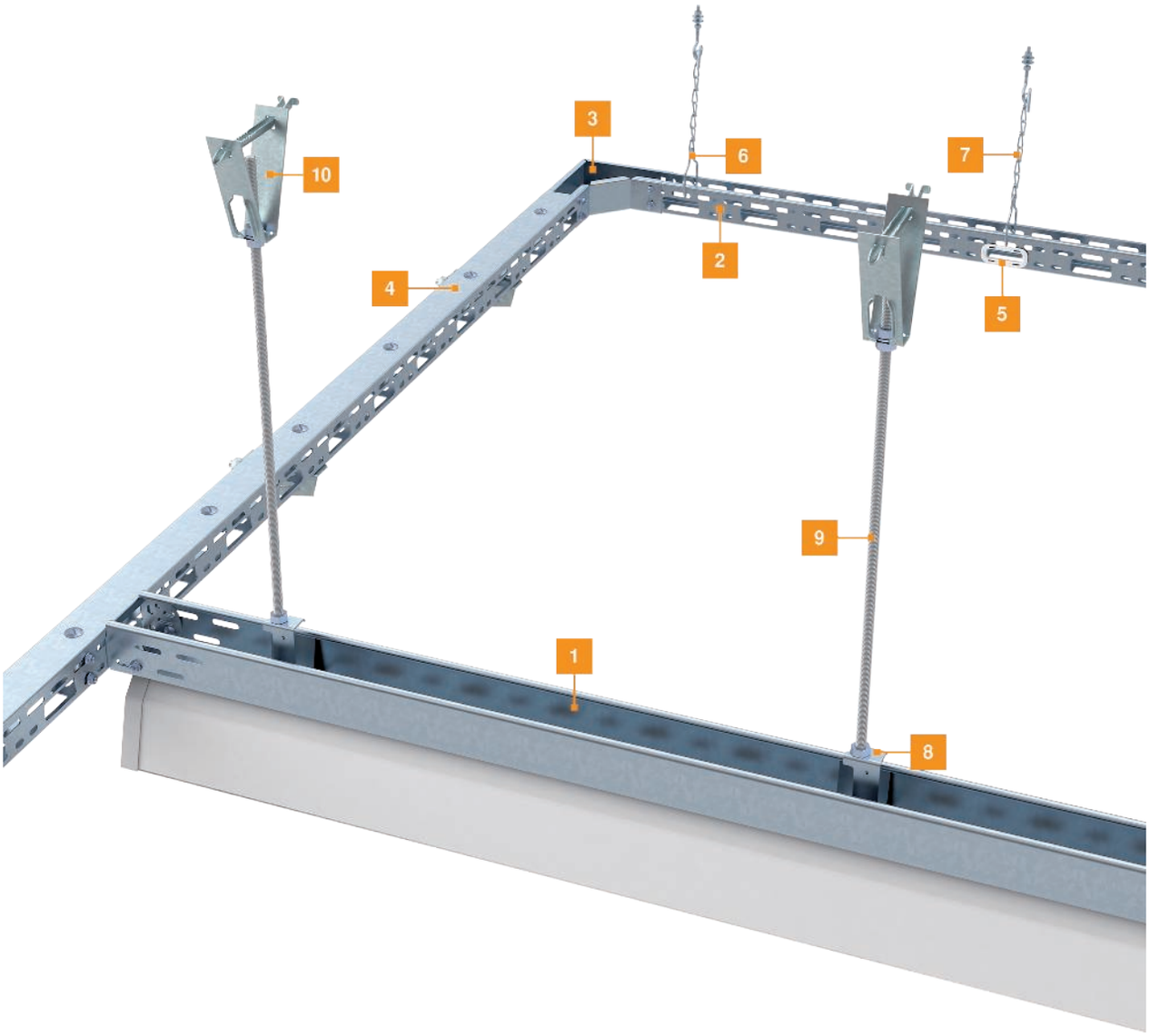
Luminaire support tray 362

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

System description

Whether in industry, in purpose-built buildings or in especially attractive buildings, OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings. They are also suitable for flexible power and data supply to machines and workstations. The OBO luminaire support system makes cable laying and the optimum positioning of lighting for any possible application simply child's play.

Installation principle



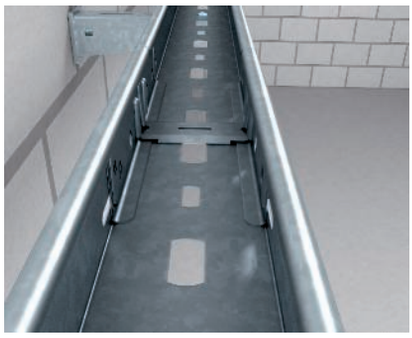
1	Luminaire support tray
2	Luminaire support channel
3	90° bend
4	Cover with turn buckle
5	Edge protection ring
6	Suspension bracket
7	Suspension chain
8	Centre suspension
9	Threaded rod
10	Trapezoidal fastening

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

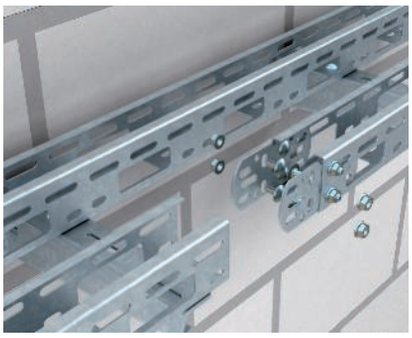
Mounting aid

Luminaire support tray application
Suspension of the luminaire support tray with chain and suspension bracket.

Luminaire support tray application
Suspension of a luminaire support tray with centre suspension MAH and threaded rod.



Straight connection of luminaire support tray
Horizontal straight connection of the luminaire support tray, type LTR with straight connector set, type RV 607.

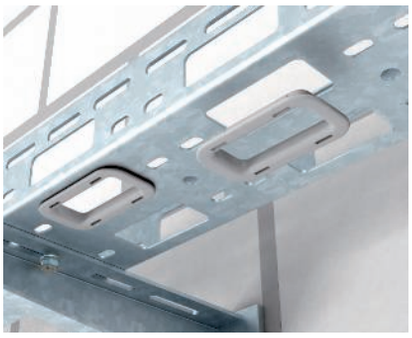


Longitudinal connection of luminaire support channel
Horizontal longitudinal connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.

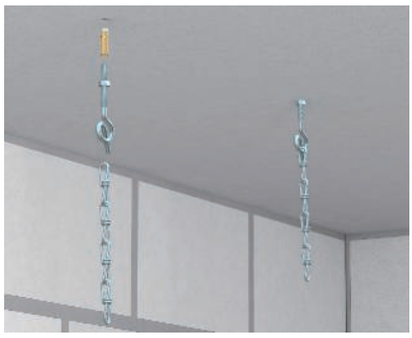
Horizontal angle connection
Horizontal angle connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.

Vertical straight connection
Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.

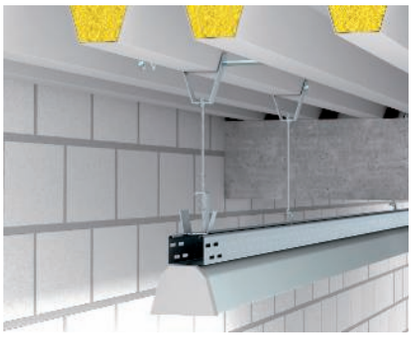
Side rail cable protection ring
Insertion of the cable protection rings, type KSR 910, in the side rail of the luminaire support channel.



Floor cable protection ring
Insertion of the cable protection rings, type KSR 915, in the base of the luminaire support channel.

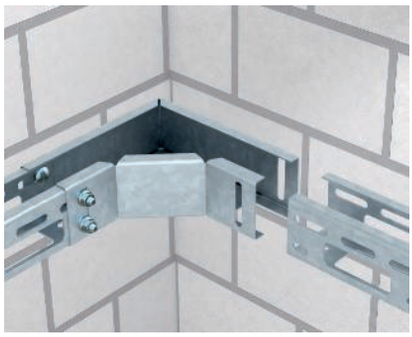


Chain suspension
Implementation of a chain suspension for luminaire support systems with anchors, ceiling hook, type 948/TG6 and suspension chain, type LTK-K.



Centre suspension
Efficient creation of centre suspensions. The luminaire support tray is fastened to the centre suspension hanger without bolts.

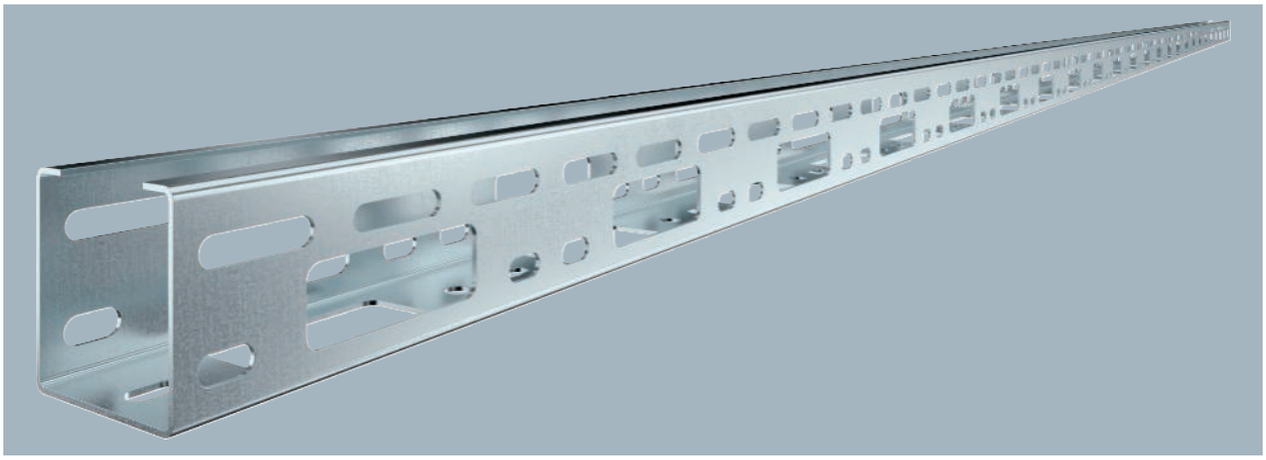
Pre-wired luminaire supports
Mounting of a pre-terminated luminaire beneath a luminaire support tray.



Mounting of luminaire support fitting
Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.

St FS

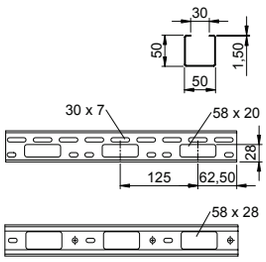
Luminaire support channel 50



Perforated luminaire support channel for cable routing and luminaire mounting.

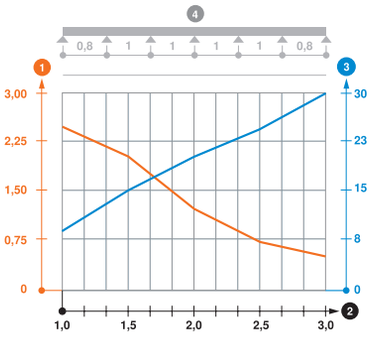
Type	Pack m	Weight kg/100 m	Item no.
LTS 50 FS	6	135.700	**6075000**

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTS 50 FS	6000	50	22	1.50

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FS	2.5	2	1.2	0.85	0.5

Load diagram, luminaire support channel, type LTS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

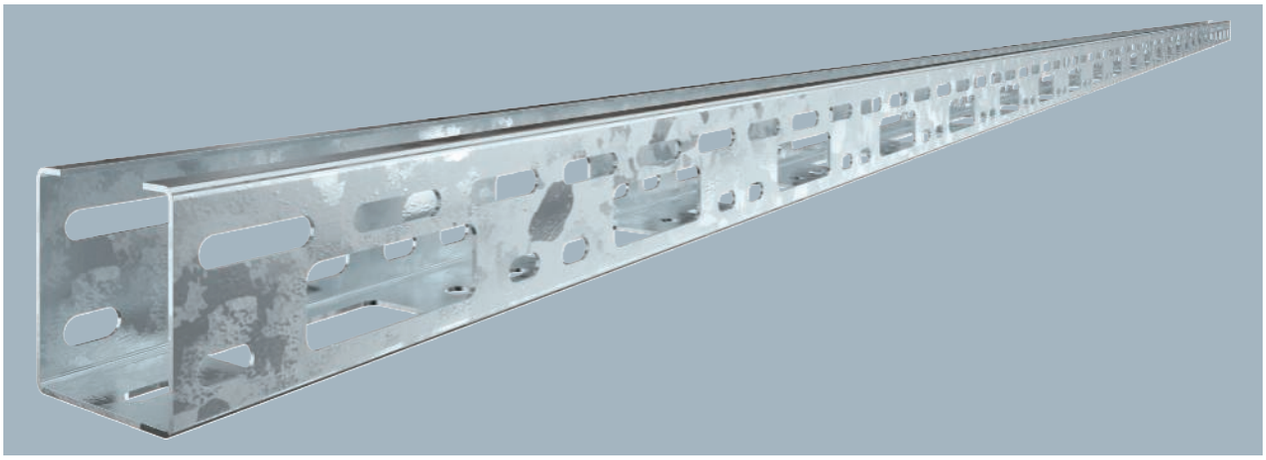
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Luminaire support channel 50

St FT

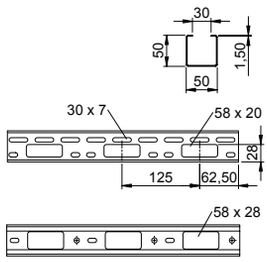


Type	Pack m	Weight kg/100 m	Item no.
LTS 50 FT	6	149.500	6075005

Perforated luminaire support channel for cable routing and luminaire mounting.

Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTS 50 FT	6000	50	22	1.50

Dimensions



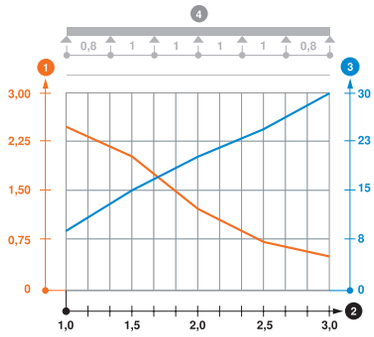
	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FT	2.5	2	1.2	0.85	0.5

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

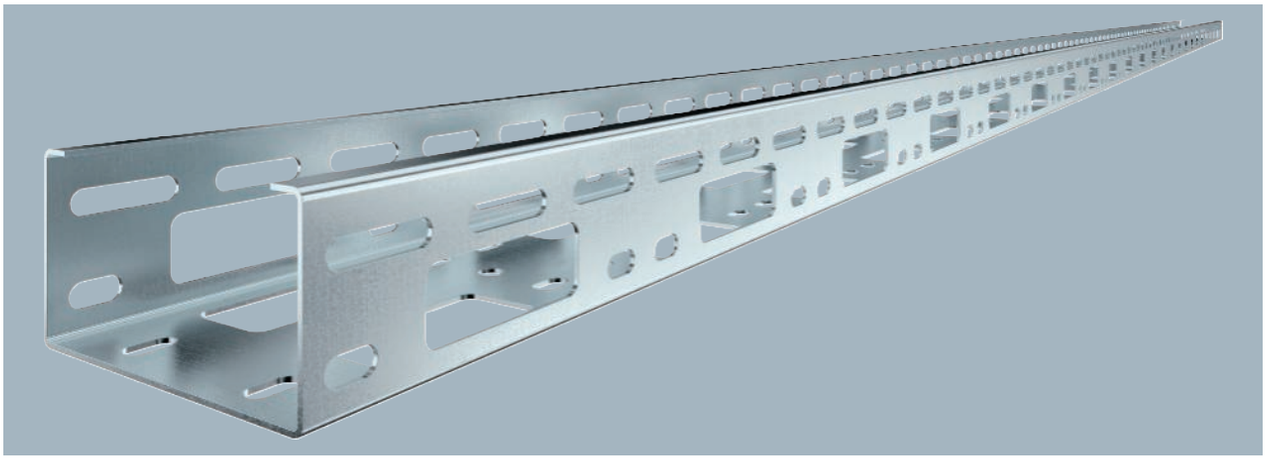
— Strut bend curve according to support width

Load



St FS

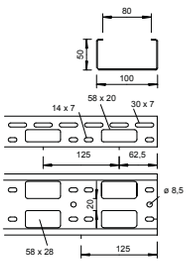
Luminaire support channel 100



Perforated luminaire support channel for cable routing and luminaire mounting.

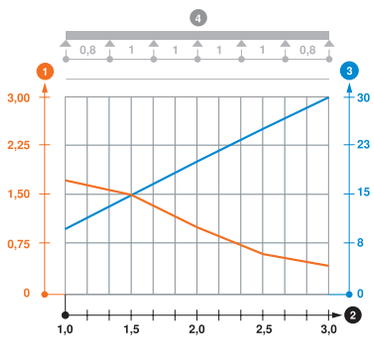
Type	Pack m	Weight kg/100 m	Item no.
LTS 100 FS	6	177.000	6075024

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTS 100 FS	6000	100	46	1.50

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 100 FS	1.7	1.5	1	0.6	0.4

Load diagram, luminaire support channel, type LTS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

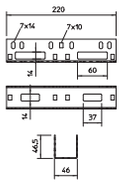
— Strut bend curve according to support width

St FS DD

Straight connector 50

Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 FS	25	27.100	6066615
VF AZK 50 DD	25	27.100	6066623

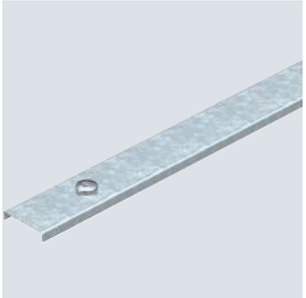
Straight connector for connection of luminaire support channels and AZ channels.
An adjustable connector can be created using two straight and angle connectors.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Cover with turn buckle

St FS

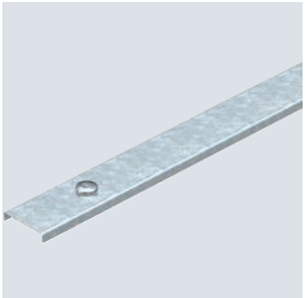


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 FS	53	3000	3	55.000	**6080138**
AZDMD 100 FS	103	3000	3	97.767	**6080227**

Cover with turn buckle for AZ small duct.

Cover with turn buckle

St DD

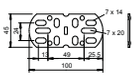


Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 DD	53	3000	3	58.340	**6080154**
AZDMD 100 DD	103	3000	3	101.700	**6080235**

Cover with turn buckle for AZ small duct.

Straight and angle connector 50

St FT



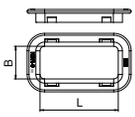
Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK FT	25	7.656	**6066550**

Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

DR 910 cable protection ring

PE

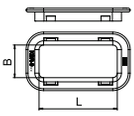


Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-910 PE	Light grey	20 x 58	25	0.470	**6066712**

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

915 cable protection ring

PE



Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-915 PE	Light grey	28 x 58	25	0.520	**6066704**

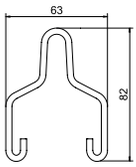
Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

St F

Suspension bracket 50

Type	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 FT	0.35		50	1.985	**6066505**

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

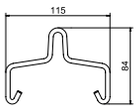


St F

Suspension bracket 100

Type	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 FT	0.6		50	4.060	**6066510**

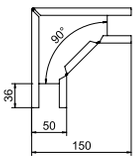
Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

90° bend LTS B

St DD

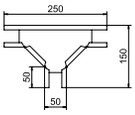


Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS B DD	50	50	1	36.600	**6074901**

90° bend, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS T T-piece

St DD

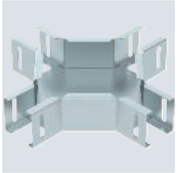


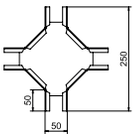
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS T DD	50	50	1	47.800	**6074912**

Horizontal tee, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS K cross-over

St DD

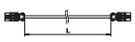




Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS K DD	50	50	1	58.400	**6074921**

Cross-over, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

3-wire connection cable, PVC, cross-section 2.5 mm², black

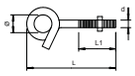


Type	Cable length mm	Cross-section mm²	Number of poles	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VL-3Q2.5 3 SW	3000	2.5	3	Black	1	54.000	**6108152**
VL-3Q2.5 5 SW	5000	2.5	3	Black	1	90.000	**6108154**
VL-3Q2.5 10 SW	10000	2.5	3	Black	1	180.000	**6108159**

Connection cable 3 x 2.5 mm² in the version socket – connector with GST18i connection system.

Ceiling hook

St G



Type	Thread	Dim. d mm	Dim. L mm	Dim. L1 mm	Dimension d Ø mm	Washer Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
948 TG6	M6	6	70	46	13	18	1	25	3.300	**3453820**

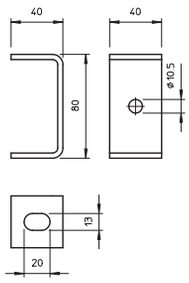
Tightly wound ceiling hook. Including two large washers and nuts.

St FT

Ceiling bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	6356109

Ceiling bracket for threaded rod suspension.



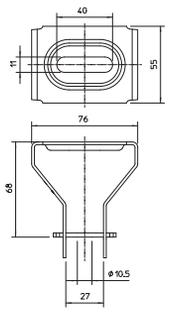
St FS

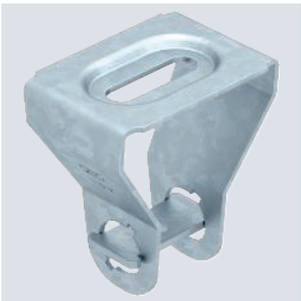
Ceiling clamp, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
DBV FS	20	18.200	6356055

The locked threaded rod seat offers the option of infinite angle adjustment.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.





St G

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M8 1M G	M8	8	1000	14.6	10	30.000	3141128
TR M10 1M G	M10	10	1000	23.2	10	49.000	3141209
TR M12 1M G	M12	12	1000	33.7	10	62.000	3141306
TR M8 2M G	M8	8	2000	14.6	10	60.000	3141136
TR M10 2M G	M10	10	2000	23.2	10	98.000	3141140
TR M12 2M G	M12	12	2000	33.7	10	140.000	3141144

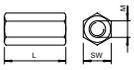
Threaded rod to DIN 976.

St G

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	6410081
CSTR M10 G	M10	30	17	50	4.150	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111

Connection sleeve with continuous internal thread.



St FS

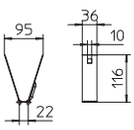
Ceiling bracket, trapezoidal

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	6357506

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

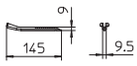
When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Splint for trapezoidal ceiling bracket

St FS

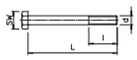


Type	Material thickness mm	Break load kN		Pack Piece	Weight kg/100 pc.	Item no.
TPB R FS	1.5	0.8		20	3.100	**6357536**

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Hexagonal bolt for trapezoidal fastening TPB 100

St G



Type	Dimension mm	Dim. L mm	Dim. l mm	Dim. d mm	SW mm	Resistance grade		Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x110 G	M 10 x 110	110	30	10	17	5.6		20	9.500	**6418244**

Hexagonal bolt for mounting trapezoidal fastening TPB 100, with shaft and thread, including hexagonal nut and 2 washers.

Suspension chain

St G

Type	Material thickness mm	Break load kN		Pack m	Weight kg/100 m	Item no.
LTK-K 25 G	2.6	0.9		25	19.000	**6050370**

Suspension chain according to DIN 5686 for suspending luminaire support systems.

Quick link

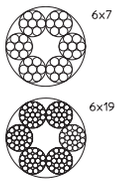
St G

Type	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
KNG G	4		100	0.700	**6050375**

Quick link for connecting the chain, type LTK.

Steel wire tensioning rope

St G



Type	Cable diameter mm	Break load kN	In rings m		Pack m	Weight kg/100 m	Item no.
957 3 G	3	5.29	50		50	3.220	**5303206**

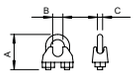
Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x19 according to DIN 3060.
Minimum break force 1770 N/mm².

St G

Wire cable clamp

Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 G	3	20	4	4	25	1.100	**5302021**

Wire cable clamp for fastening steel wire tensioning ropes.

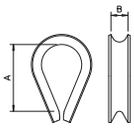


St G

Cable eye stiffener

Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
946 3 G	3	23.5	3.5	25	0.210	**5301033**

Cable eye stiffener to DIN 65457.

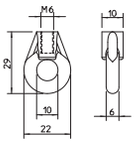


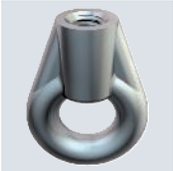
Zn G

Ring eyelet

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2084 K M6	M6	1.15	100	1.500	**3463060**

Ring eyelet with metric internal thread.



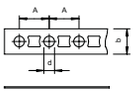


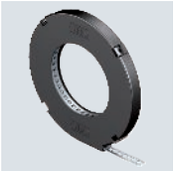
St FS

Perforated steel strap

Type	Dim. d mm	Dim. b mm	Dim. A mm	Per roll m	Pack Piece	Weight kg/100 pc.	Item no.
5055 I12 FS	5.2	12	14.4	10	1	73.000	**1470124**
5055 II17 FS	6.5	17	20	10	1	106.000	**1470175**
5055 III26 FS	8.5	26	25	10	1	204.500	**1470264**
5055 LI12 FS	5.2	12	14.4	10	1	59.000	**1471120**
5055 LII17 FS	6.5	17	20	10	1	84.200	**1471171**
5055 LIII26 FS	8.5	26	25	10	1	172.300	**1471260**

Perforated steel strap, in practical uncoiling box.



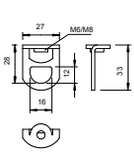


St G

TS suspension eyelet

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2990 M6 G	M6	1.6	50	2.320	**3462862**
2990 M8 G	M8	1.7	50	2.320	**3462889**

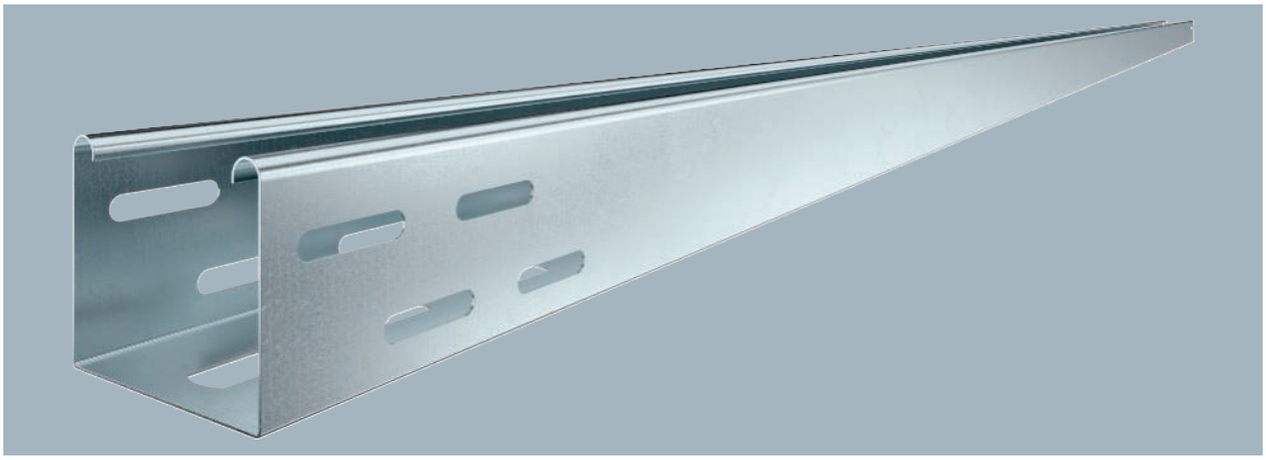
Suspension eyelet with interior thread.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Luminaire support tray

St FS



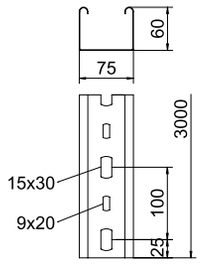
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
LTR 3000 FS	75	0.75	3	125.700	**6055810**
LTR 6000 FS	75	0.75	6	126.020	**6055812**

The white version is a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

Type	Length mm	Width mm	Usable cross-section cm²	Metal thick-ness mm
LTR 3000 FS	3000	75	42	0.75
LTR 6000 FS	6000	75	42	0.75

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 3000 FS	0.8	0.55	0.35	0.25
LTR 6000 FS	0.8	0.55	0.35	0.25

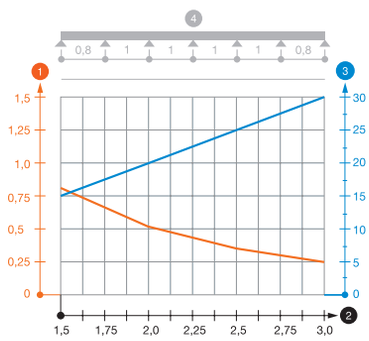
Load diagram, luminaire support tray, type LTR

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

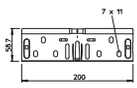
— Strut bend curve according to support width

Load



Straight connector set 60

St FS



Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 607 FS	60	75	10	18.800	**6068150**

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

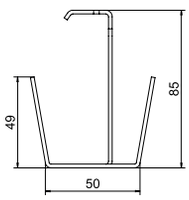
The continuous earthing connection is guaranteed without a screw connection.

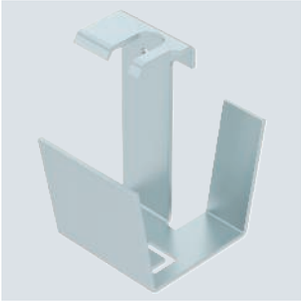
St FS

Centre suspension for luminaire support tray

Type	for width mm	For threaded rod		Pack Piece	Weight kg/100 pc.	Item no.
MAH LTR FS	75	M10		25	12.000	**6358810**

The central hanger can be used with all cable trays of width 75 mm and side height 60 mm.
Central hanger for luminaire support tray, type LTR, for threaded rod and chain suspension.



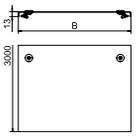


St FS

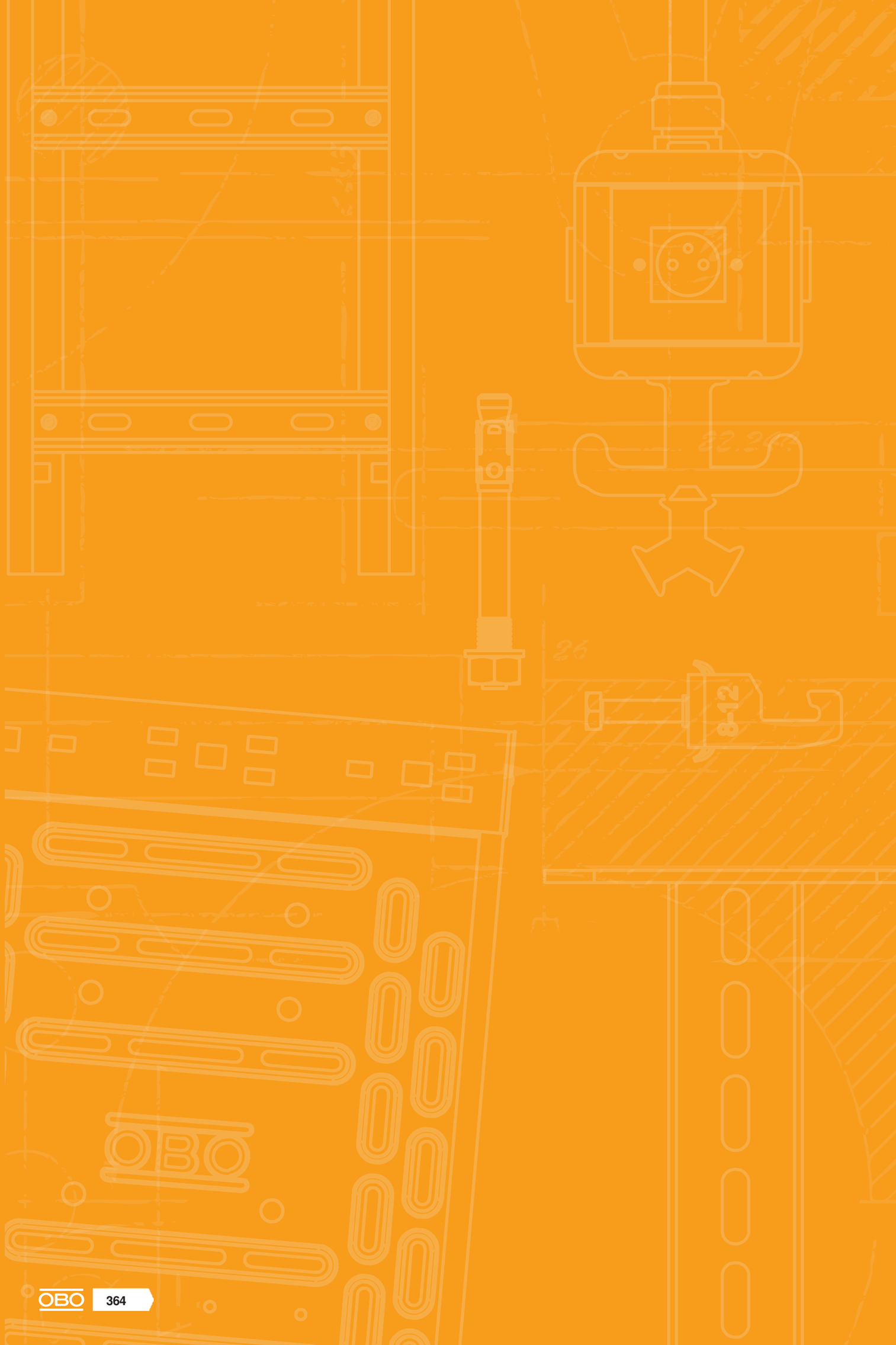
Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm		Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000		3	83.340	**6052029**

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Mounting systems

Bracket 366

Supports 394

Alternative suspension systems 430

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Selection aid

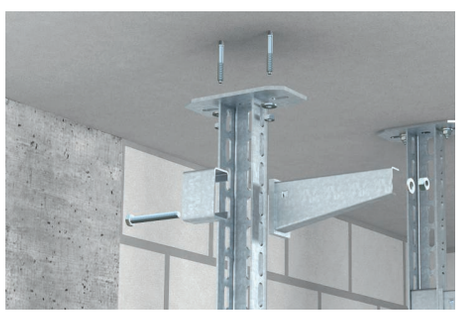
Support and bracket combinations

Bracket arrangement, one-sided

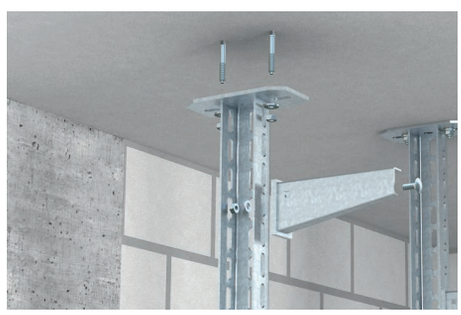
		Bracket \ Support length	US 3 K		US 5 K		US 7 K	
			200 – 600	700 – 1200	200 – 600	700 – 1200	200 – 600	700 – 1200
MWA12 ...		100	–	DSK25	–	DSK45	–	–
		200	–	DSK25	–	DSK45	–	–
		300	–	DSK25	–	DSK45	–	–
		400	DSK25	DSK25	DSK45	DSK45	DSK61	DSK61
AW 15 ...		100	–	DSK25	–	DSK45	–	–
		200	–	DSK25	–	DSK45	–	–
		300	–	DSK25	–	DSK45	–	–
		400	DSK25	DSK25	DSK45	DSK45	DSK61	DSK61
		500			DSK45*	DSK45*	DSK61	DSK61
		600			DSK45*	DSK45*	DSK61	DSK61
AW 30 ...		100			DSK45	DSK45	–	–
		200			DSK45	DSK45	–	–
		300			DSK45*	DSK45*	–	–
		400			DSK45*	DSK45*	DSK61	DSK61
		500					DSK61	DSK61
		600					DSK61	DSK61
		700					DSK61	DSK61
AW 55 ...		200			DSK45**	DSK45**	DSK61	DSK61
		300			DSK45**	DSK45**	DSK61	DSK61
		400			DSK45**	DSK45**	DSK61*	DSK61*
		500					DSK61*	DSK61*
		600					DSK61*	DSK61*
		700					DSK61*	DSK61*

- No DSK required
* Observe the overall load, adapt the support distances, refer to the load tables in the catalogue
** Only use with maintenance of electrical function

A spacer must always be used for support lengths > 600 mm and bracket arrangements at the bottom end of the support.



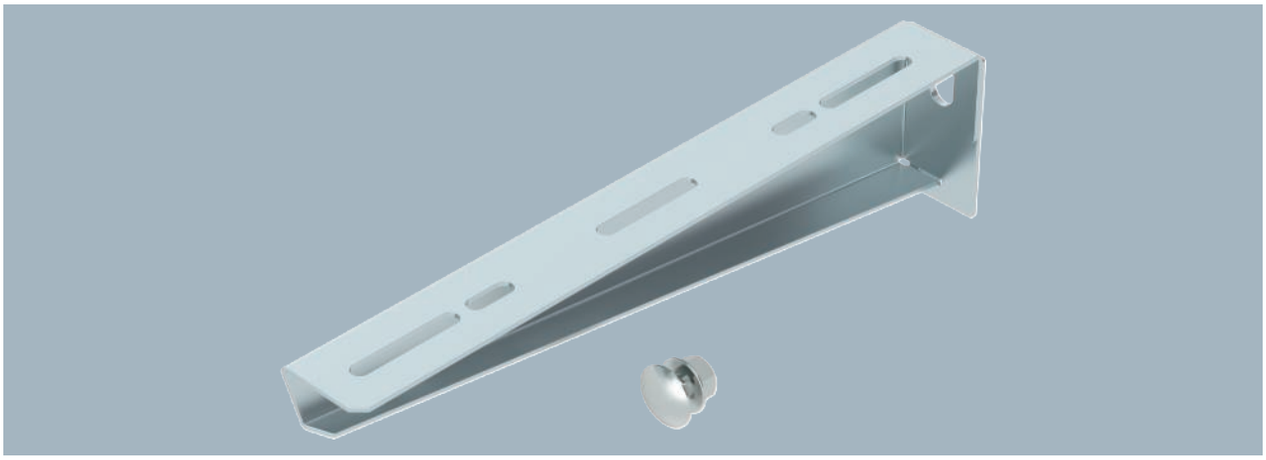
With DSK (spacer)



Without DSK (spacer)

St FS

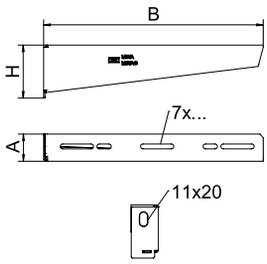
Wall and support bracket MWA 12



Including truss-head bolt M10 x 25 for fastening to U supports.
Light-duty wall and support bracket.

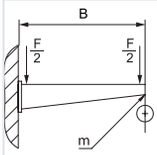
Type	Width mm	F in kN kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S FS	110	1.2		1	16.400	**6424716**
MWA 12 21S FS	210	1.2		1	26.700	**6424732**
MWA 12 31S FS	310	1.2		1	50.300	**6424740**
MWA 12 41S FS	410	1.2		1	68.000	**6424759**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWA 12 11S FS	110	32.5	53	11
MWA 12 21S FS	210	32.5	65	11
MWA 12 31S FS	310	38	75	11
MWA 12 41S FS	410	38	83	11

Load

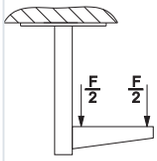


Load characteristics wall and support bracket MWA 12

Item on test	Force F (SWL)	Width B
MWA 12 11S FS	1.2 kN	110 mm
MWA 12 21S FS	1.2 kN	210 mm
MWA 12 31S FS	1.2 kN	310 mm
MWA 12 41S FS	1.2 kN	410 mm

Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket



Load values for MWA 12 on suspended support - Ceiling fastening

Max. total load F in kN Bracket length in mm	100	200	300	400
Support				
US 3 K/ 20–60	1.2	1.2	1.2	1.2
US 3 K/ 70–120	1.2	1.2	1.2	1.2
US 5 K/ 20–60	1.2	1.2	1.2	1.2
US 5 K/ 70 120	1.2	1.2	1.2	1.2

Max. total load F = cable weight + cable tray + bracket. The load capaci increase considerably when used in uncracked concrete. The values giv on concrete of strength class C20/25. Observe the installation conditio approval (anchors).

Characteristic anchor load values for wall and support bracket MWA 12 - wall fastening

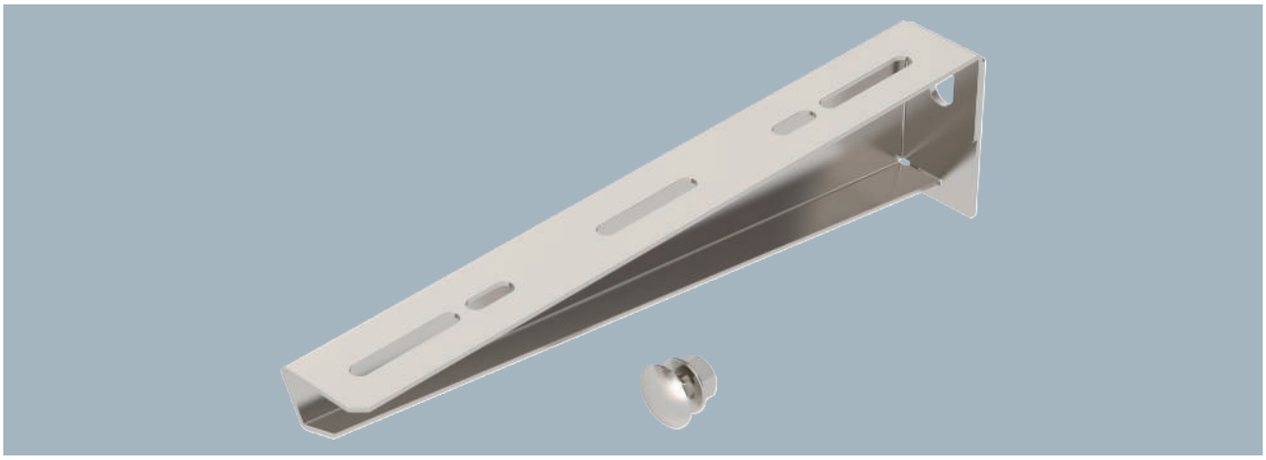
Max. load F [kN] Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket MWA 12

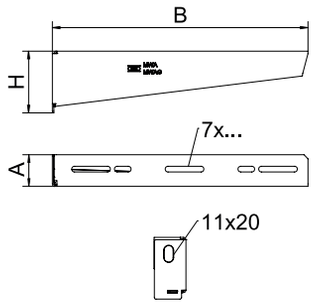
VA VA 2B



Type	Width mm	F in kN kN			Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S A2	110	1.2			1	16.000	**6424430**
MWA 12 21S A2	210	1.2			1	26.900	**6424432**
MWA 12 31S A2	310	1.2			1	51.800	**6424434**
MWA 12 41S A2	410	1.2			1	69.200	**6424436**
MWA 12 11S A4	110	1.2			1	16.000	**6424440**
MWA 12 21S A4	210	1.2			1	26.900	**6424442**
MWA 12 31S A4	310	1.2			1	51.800	**6424444**
MWA 12 41S A4	410	1.2			1	69.200	**6424446**

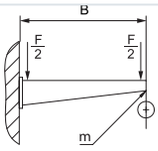
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket.



Load characteristics wall and support bracket MWA 12

Item on test	Force F (SWL)	Width B
MWA 12 11S FS	1.2 kN	110 mm
MWA 12 21S FS	1.2 kN	210 mm
MWA 12 31S FS	1.2 kN	310 mm
MWA 12 41S FS	1.2 kN	410 mm



Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

Load values for MWA 12 on suspended support - Ceiling fastening

Max. total load F in kN				
Bracket length in mm	100	200	300	400
Support				
US 3 K/ 20 - 60	1.2	1.2	1.2	1.2
US 3 K/ 70 - 120	1.2	1.2	1.2	1.2
US 5 K/ 20 - 60	1.2	1.2	1.2	1.2
US 5 K/ 70 - 120	1.2	1.2	1.2	1.2

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for wall and support bracket MWA 12 - Wall fastening

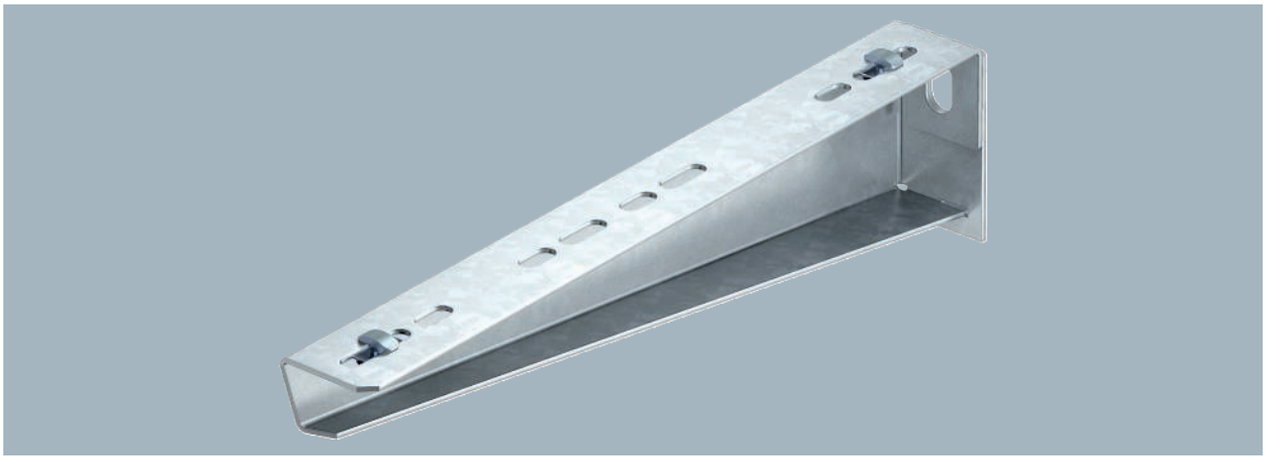
Max. load F [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Load

St FS

Wall and support bracket MWAM 12

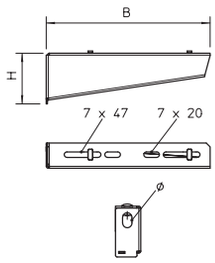


Wall and support bracket MWAM.. including:
1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

Light-duty wall and support bracket including quick connector for use with cable trays of type RKSM.

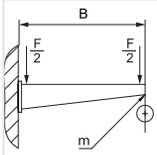
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAM 12 11 FS	110	1.2	1	19.500	**6424550**
MWAM 12 21 FS	210	1.2	1	26.000	**6424552**
MWAM 12 31 FS	310	1.2	1	51.900	**6424554**
MWAM 12 41 FS	410	1.2	1	69.700	**6424556**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAM 12 11 FS	110	32.5	53	11
MWAM 12 21 FS	210	32.5	65	11
MWAM 12 31 FS	310	38	75	11
MWAM 12 41 FS	410	38	83	11

Load



Characteristic load values for MWAM 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAM 12 11 FS	1.2 kN	110 mm
MWAM 12 21 FS	1.2 kN	210 mm
MWAM 12 31 FS	1.2 kN	310 mm
MWAM 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for MWAM 12 wall and support bracket – wall fastening

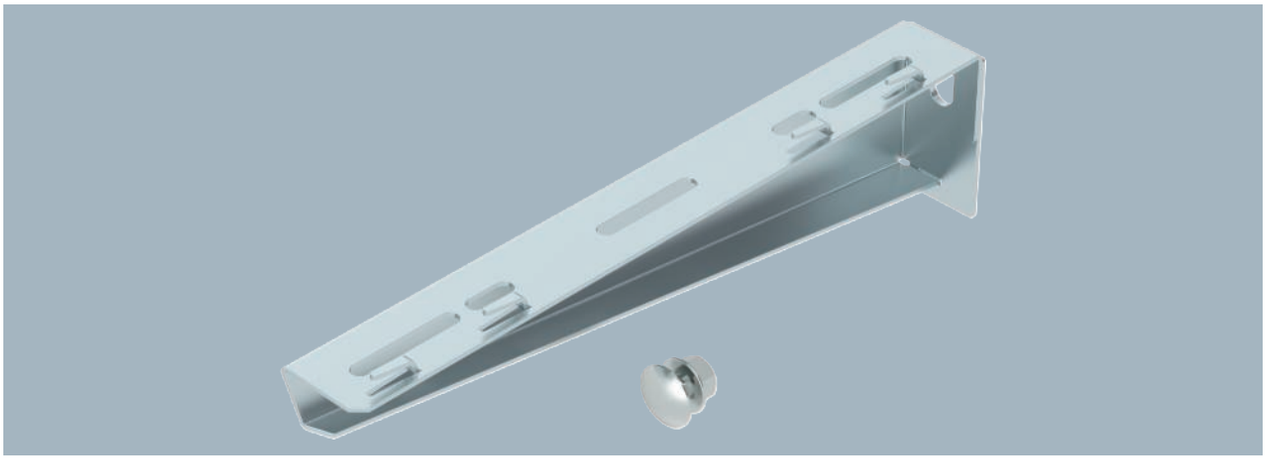
Load [kN]					
Bracket width [mm]	110	210	310	410	
Anchor type					
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65	410
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2	0.65

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket MWAG 12

St FS



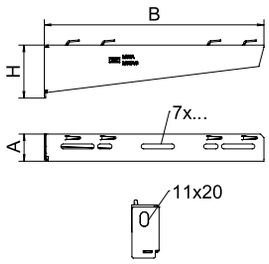
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 FS	110	1.2	1	12.700	**6424600**
MWAG 12 21 FS	210	1.2	1	24.400	**6424608**
MWAG 12 31 FS	310	1.2	1	50.300	**6424616**
MWAG 12 41 FS	410	1.2	1	68.000	**6424624**

Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.

Dimensions

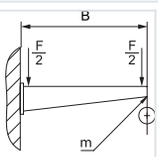
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAG 12 11 FS	110	32.5	53	11
MWAG 12 21 FS	210	32.5	65	11
MWAG 12 31 FS	310	38	75	11
MWAG 12 41 FS	410	38	83	11



Load

Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	210 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

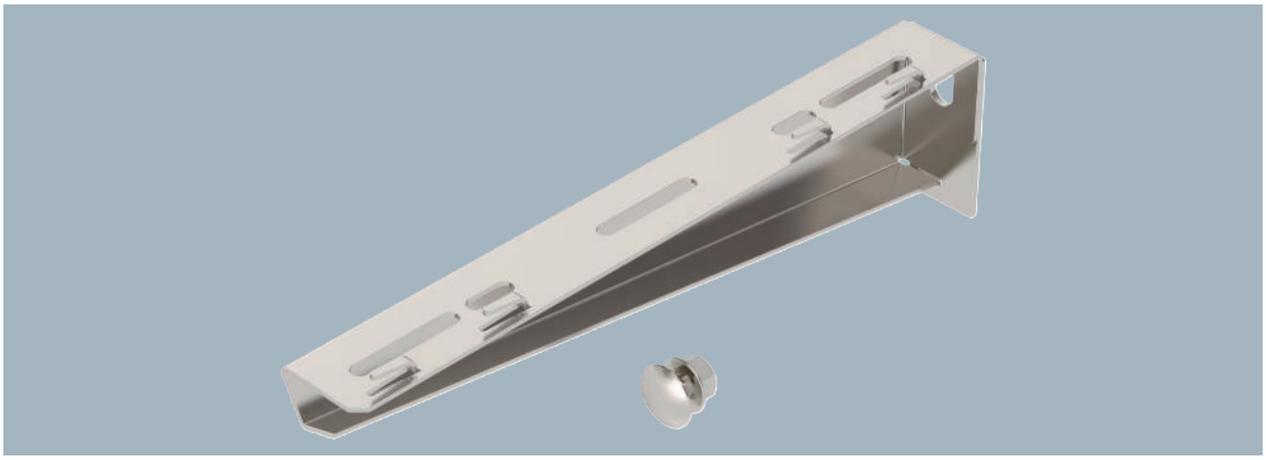
Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

Load [kN]					
Bracket width [mm]	110	210	310	410	
Anchor type					
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65	410
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2	0.65

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

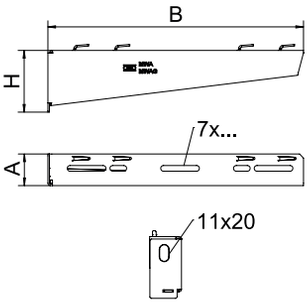
VA VA 2B

Wall and support bracket MWAG 12



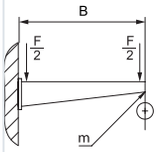
Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screwless mesh cable tray fastening.



Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 A2	110	1.2	1	16.000	**6424400**
MWAG 12 21 A2	210	1.2	1	26.900	**6424402**
MWAG 12 31 A2	310	1.2	1	51.800	**6424404**
MWAG 12 41 A2	410	1.2	1	69.200	**6424406**
MWAG 12 11 A4	110	1.2	1	16.000	**6424410**
MWAG 12 21 A4	210	1.2	1	26.900	**6424412**
MWAG 12 31 A4	310	1.2	1	51.800	**6424414**
MWAG 12 41 A4	410	1.2	1	69.200	**6424416**

Load



Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	210 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for MWAG 12 wall and support bracket – wall fastening

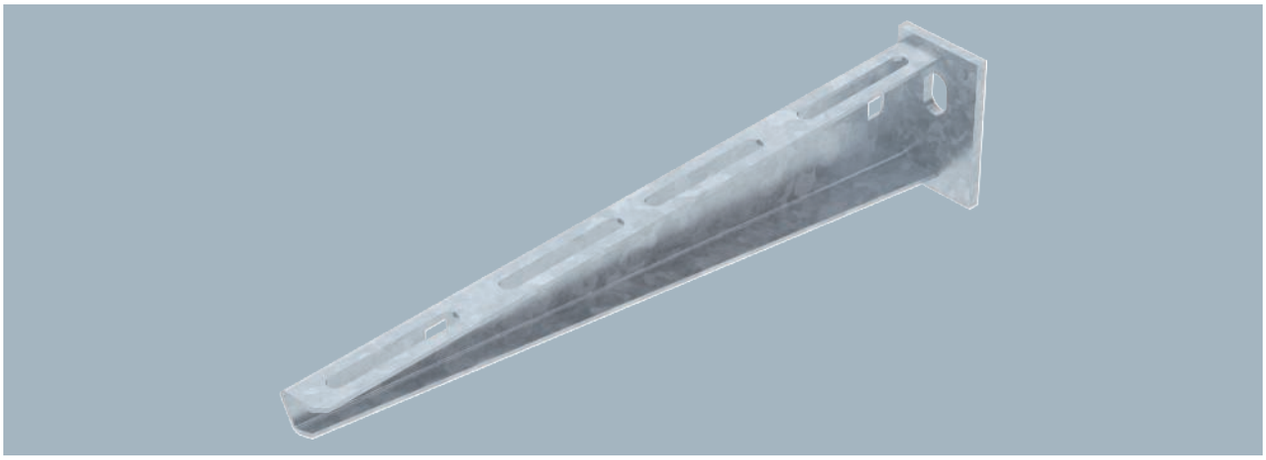
Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AW 15

St FT



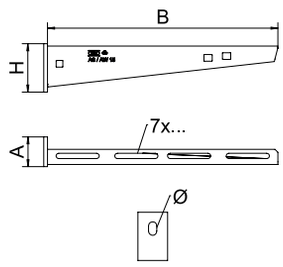
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 FT	110	1.5	1	13.100	**6420656**
AW 15 16 FT	160	1.5	1	20.000	**6420664**
AW 15 21 FT	210	1.5	1	24.000	**6420680**
AW 15 31 FT	310	1.5	1	38.400	**6420710**
AW 15 41 FT	410	1.5	1	54.000	**6420745**
AW 15 51 FT	510	1.5	1	67.300	**6420788**
AW 15 56 FT	560	1.5	1	77.000	**6420796**
AW 15 61 FT	610	1.5	1	85.000	**6420826**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

Dimensions

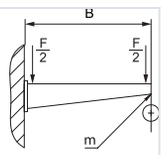
Type	Dim. B mm	Dim. A mm	Dim. H mm
AW 15 11 FT	110	40	50
AW 15 16 FT	160	40	55
AW 15 21 FT	210	40	60
AW 15 31 FT	310	40	65
AW 15 41 FT	410	40	70
AW 15 51 FT	510	40	75
AW 15 56 FT	560	40	80
AW 15 61 FT	610	40	80



Load

Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 FT	1.5 kN	110 mm
AW 15 16 FT	1.5 kN	160 mm
AW 15 21 FT	1.5 kN	210 mm
AW 15 31 FT	1.5 kN	310 mm
AW 15 36 FT	1.5 kN	360 mm
AW 15 41 FT	1.5 kN	410 mm
AW 15 51 FT	1.5 kN	510 mm
AW 15 56 FT	1.5 kN	560 mm
AW 15 61 FT	1.5 kN	610 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

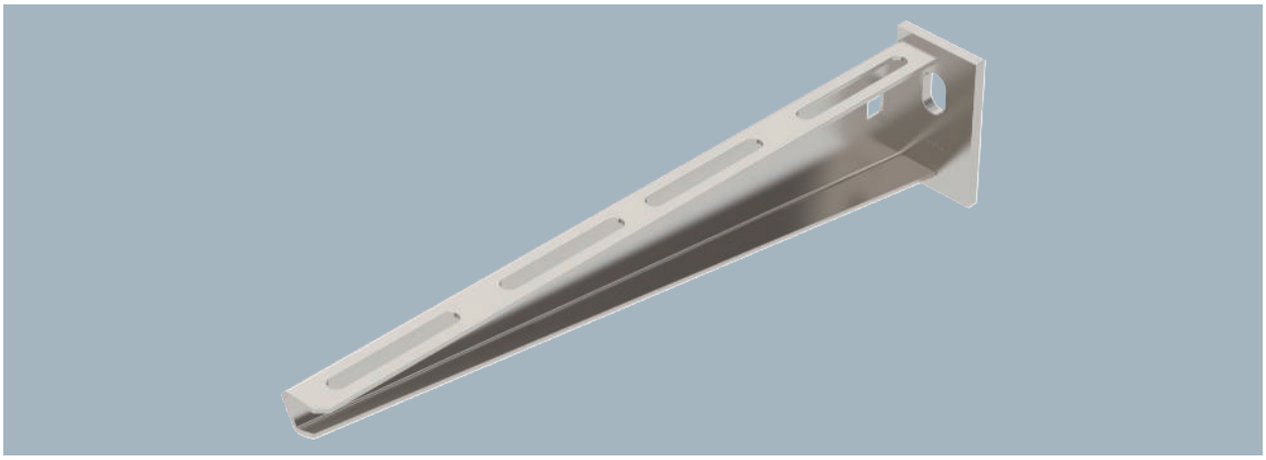
Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

VA 2B

Wall and support bracket AW 15

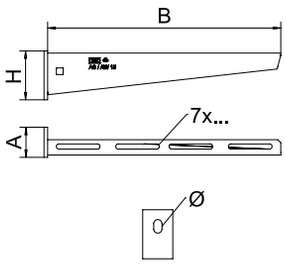


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

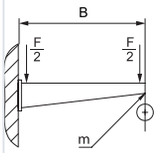
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A2	110	1.5	1	12.500	**6421008**
AW 15 21 A2	210	1.5	1	24.000	**6421024**
AW 15 31 A2	310	1.5	1	38.200	**6421032**
AW 15 41 A2	410	1.5	1	55.000	**6421036**
AW 15 51 A2	510	1.5	1	64.400	**6421040**
AW 15 61 A2	610	1.5	1	85.000	**6421044**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 11 A2	110	40	50	11
AW 15 21 A2	210	40	60	11
AW 15 31 A2	310	40	65	11
AW 15 41 A2	410	40	70	11
AW 15 51 A2	510	40	75	11
AW 15 61 A2	610	40	80	11

Load



Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Length L
AW 15 11 A2	0.15 kN	110 mm
AW 15 21 A2	0.15 kN	210 mm
AW 15 31 A2	0.15 kN	310 mm
AW 15 41 A2	0.15 kN	410 mm
AW 15 51 A2	0.15 kN	510 mm
AW 15 61 A2	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW15 wall bracket – wall fastening

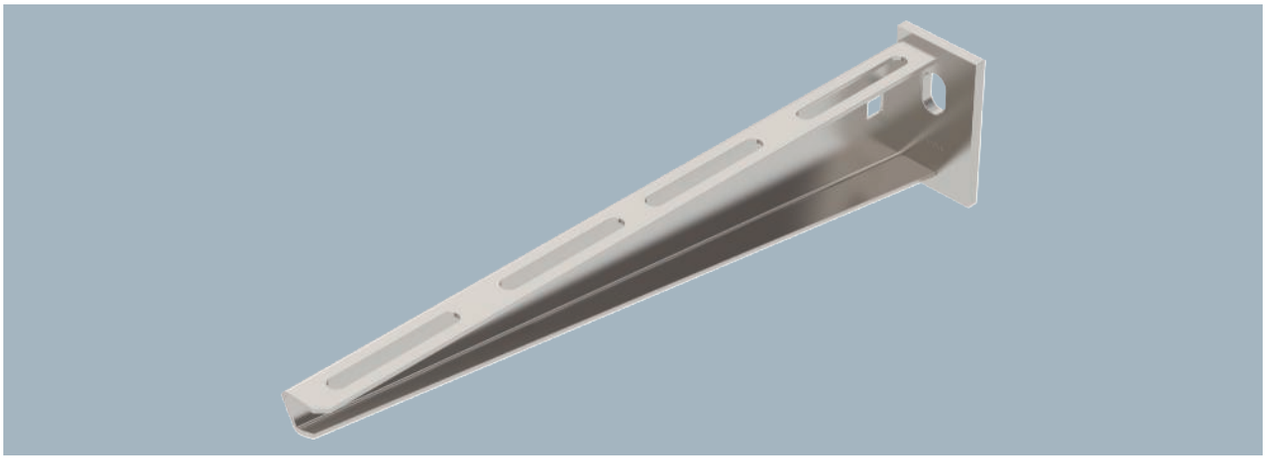
Load [kN]				
Bracket width [mm]	110%	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AW 15

VA 2B



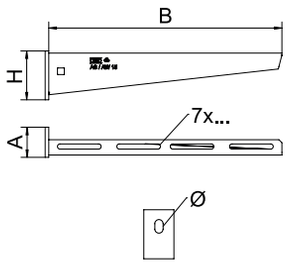
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A4	110	1.5	1	12.500	**6392008**
AW 15 21 A4	210	1.5	1	24.000	**6392016**
AW 15 31 A4	310	1.5	1	37.400	**6392024**
AW 15 41 A4	410	1.5	1	55.000	**6392032**
AW 15 51 A4	510	1.5	1	64.400	**6392040**
AW 15 61 A4	610	1.5	1	85.000	**6392059**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

Dimensions

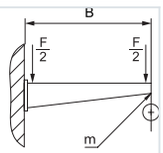
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 11 A4	110	40	50	11
AW 15 21 A4	210	40	60	11
AW 15 31 A4	310	40	65	11
AW 15 41 A4	410	40	70	11
AW 15 51 A4	510	40	75	11
AW 15 61 A4	610	40	80	11



Load

Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Width B
AW 15 11 A4	0.15 kN	110 mm
AW 15 21 A4	0.15 kN	210 mm
AW 15 31 A4	0.15 kN	310 mm
AW 15 41 A4	0.15 kN	410 mm
AW 15 51 A4	0.15 kN	510 mm
AW 15 61 A4	0.15 kN	610 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

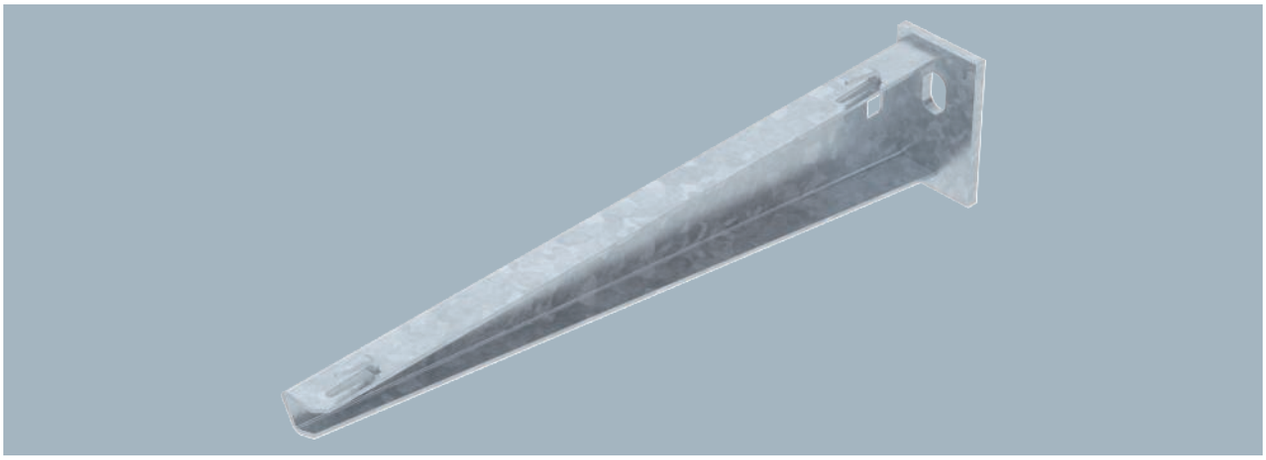
Characteristic anchor load values for AW15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

Wall and support bracket AWG 15

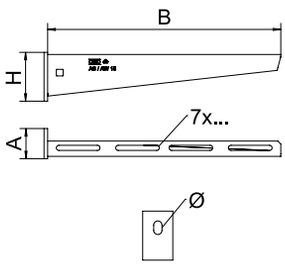


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

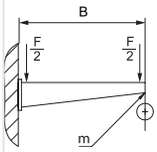
Type	Width mm	F in kN kN			Pack Piece	Weight kg/100 pc.	Item no.
AW G 15 11 FT	110	1.5			1	14.000	**6420606**
AW G 15 16 FT	160	1.5			1	20.000	**6420607**
AW G 15 21 FT	210	1.5			1	26.000	**6420608**
AW G 15 31 FT	310	1.5			1	35.000	**6420610**
AW G 15 41 FT	410	1.5			1	56.000	**6420612**
AW G 15 51 FT	510	1.5			1	69.000	**6420614**
AW G 15 61 FT	610	1.5			1	84.000	**6420616**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AW G 15 21 FT	210	40	60	11
AW G 15 31 FT	310	40	65	11
AW G 15 41 FT	410	40	70	11
AW G 15 51 FT	510	40	75	11
AW G 15 61 FT	610	40	80	11

Load



Characteristic anchor load values for wall bracket AWG 15 – wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 FT	0.15 kN	110 mm
AWG 15 16 FT	0.15 kN	160 mm
AWG 15 21 FT	0.15 kN	210 mm
AWG 15 31 FT	0.15 kN	310 mm
AWG 15 41 FT	0.15 kN	410 mm
AWG 15 51 FT	0.15 kN	510 mm
AWG 15 61 FT	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

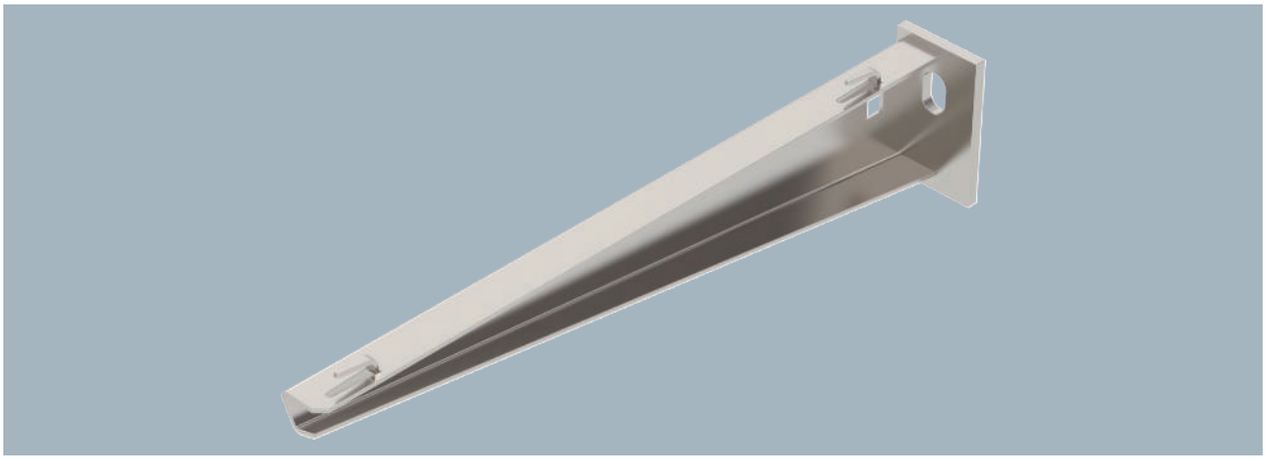
Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AWG 15

VA 2B



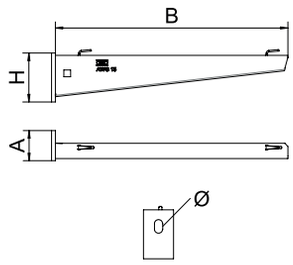
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A2	110	1.5	1	13.000	**6420625**
AWG 15 21 A2	210	1.5	1	25.000	**6420628**
AWG 15 31 A2	310	1.5	1	33.000	**6420631**
AWG 15 41 A2	410	1.5	1	53.000	**6420634**
AWG 15 51 A2	510	1.5	1	65.000	**6420637**
AWG 15 61 A2	610	1.5	1	80.000	**6420640**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A2	110	40	50	11
AWG 15 21 A2	210	40	60	11
AWG 15 31 A2	310	40	65	11
AWG 15 41 A2	410	40	70	11
AWG 15 51 A2	510	40	75	11
AWG 15 61 A2	610	40	80	11

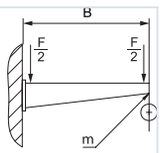
Dimensions



Load

Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Length L
AWG 15 11 A2	0.15 kN	110 mm
AWG 15 21 A2	0.15 kN	210 mm
AWG 15 31 A2	0.15 kN	310 mm
AWG 15 41 A2	0.15 kN	410 mm
AWG 15 51 A2	0.15 kN	510 mm
AWG 15 61 A2	0.15 kN	610 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

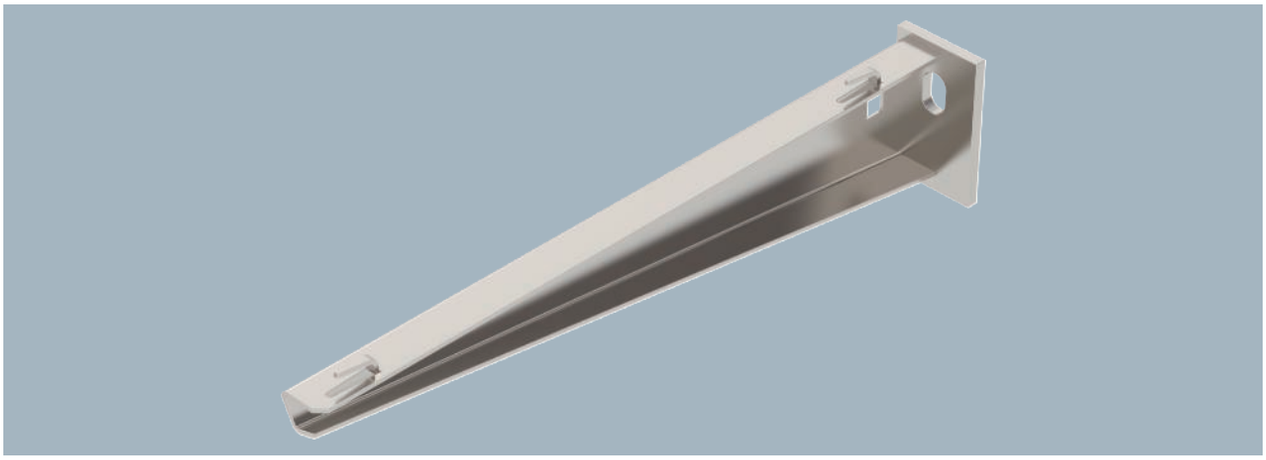
Characteristic anchor load values for AW G 15 wall bracket – wall fastening

Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

VA 2B

Wall and support bracket AWG 15

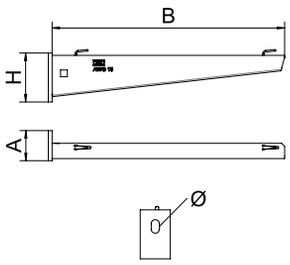


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

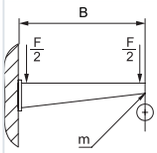
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A4	110	1.5	1	13.000	**6420642**
AWG 15 21 A4	210	1.5	1	25.000	**6420644**
AWG 15 31 A4	310	1.5	1	33.000	**6420646**
AWG 15 41 A4	410	1.5	1	53.000	**6420648**
AWG 15 51 A4	510	1.5	1	65.000	**6420650**
AWG 15 61 A4	610	1.5	1	80.000	**6420652**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A4	110	40	50	11
AWG 15 21 A4	210	40	60	11
AWG 15 31 A4	310	40	65	11
AWG 15 41 A4	410	40	70	11
AWG 15 51 A4	510	40	75	11
AWG 15 61 A4	610	40	80	11

Load



Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 A4	0.15 kN	110 mm
AWG 15 21 A4	0.15 kN	210 mm
AWG 15 31 A4	0.15 kN	310 mm
AWG 15 41 A4	0.15 kN	410 mm
AWG 15 51 A4	0.15 kN	510 mm
AWG 15 61 A4	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW G 15 wall bracket – wall fastening

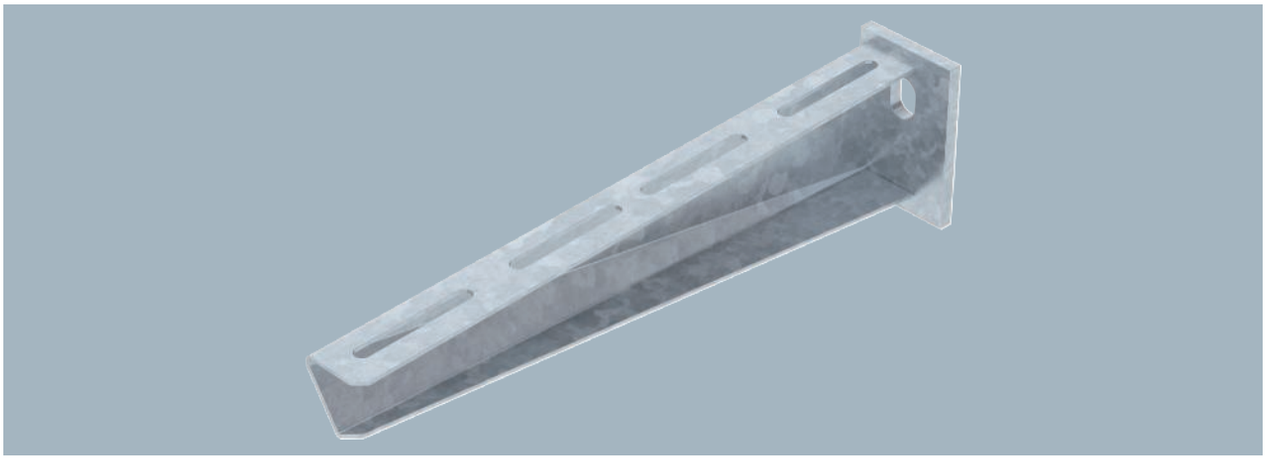
Load [kN]				
Bracket width [mm]	110	210	310	410
Anchor type				
BZ-U 8-10-21/75	1.2	0.95	0.7	0.65
BZ-U 10-10-30/90	1.2	1.2	1.2	1.2

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AW 30

St FT



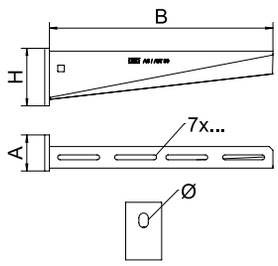
Type	Width mm	F in kN kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 FT	110	3		1	22.000	**6419704**
AW 30 16 FT	160	3		1	33.000	**6419712**
AW 30 21 FT	210	3		1	39.300	**6419720**
AW 30 31 FT	310	3		1	63.000	**6419747**
AW 30 41 FT	410	3		1	88.500	**6419763**
AW 30 51 FT	510	3		1	129.000	**6419798**
AW 30 56 FT	560	3		1	148.800	**6419844**
AW 30 61 FT	610	3		1	157.000	**6419828**
AW 30 71 FT	710	3		1	207.000	**6419836**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

Dimensions

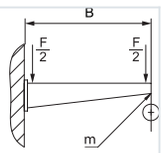
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 FT	110	50	60	11
AW 30 16 FT	160	50	65	11
AW 30 21 FT	210	50	70	13
AW 30 31 FT	310	50	80	13
AW 30 41 FT	410	50	80	13
AW 30 51 FT	510	50	90	13
AW 30 56 FT	560	50	100	13
AW 30 61 FT	610	50	100	13
AW 30 71 FT	710	50	100	13



Load

Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 FT	3 kN	110 mm
AW 30 16 FT	3 kN	160 mm
AW 30 21 FT	3 kN	210 mm
AW 30 31 FT	3 kN	310 mm
AW 30 41 FT	3 kN	410 mm
AW 30 51 FT	3 kN	510 mm
AW 30 61 FT	3 kN	610 mm
AW 30 71 FT	3 kN	710 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

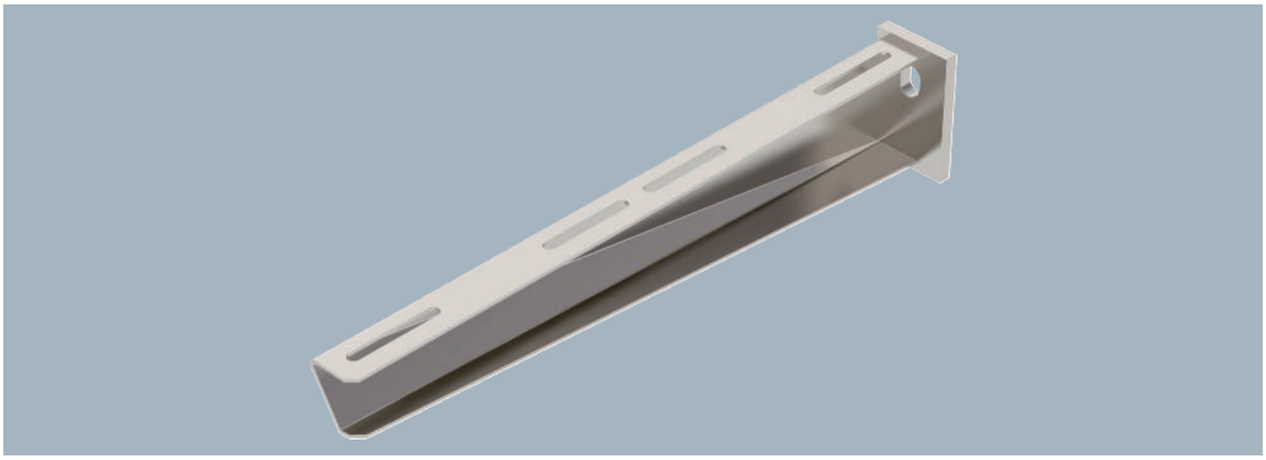
Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	110	160	210	310	410	510	560
Anchor type							
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

VA 2B

Wall and support bracket AW 30

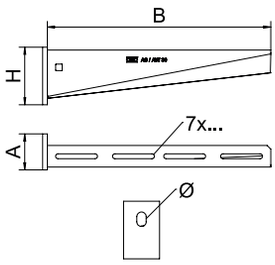


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

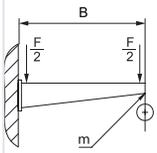
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 A2	110	3	1	21.000	**6442803**
AW 30 21 A2	210	3	1	37.500	**6442838**
AW 30 31 A2	310	3	1	60.500	**6442854**
AW 30 41 A2	410	3	1	85.200	**6442870**
AW 30 51 A2	510	3	1	124.800	**6442897**
AW 30 61 A2	610	3	1	154.000	**6442919**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 A2	110	50	60	11
AW 30 21 A2	210	50	70	13
AW 30 31 A2	310	50	80	13
AW 30 41 A2	410	50	80	13
AW 30 51 A2	510	50	90	13
AW 30 61 A2	610	50	100	13

Load



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A2	3 kN	110 mm
AW 30 21 A2	3 kN	210 mm
AW 30 31 A2	3 kN	310 mm
AW 30 41 A2	3 kN	410 mm
AW 30 51 A2	3 kN	510 mm
AW 30 61 A2	3 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

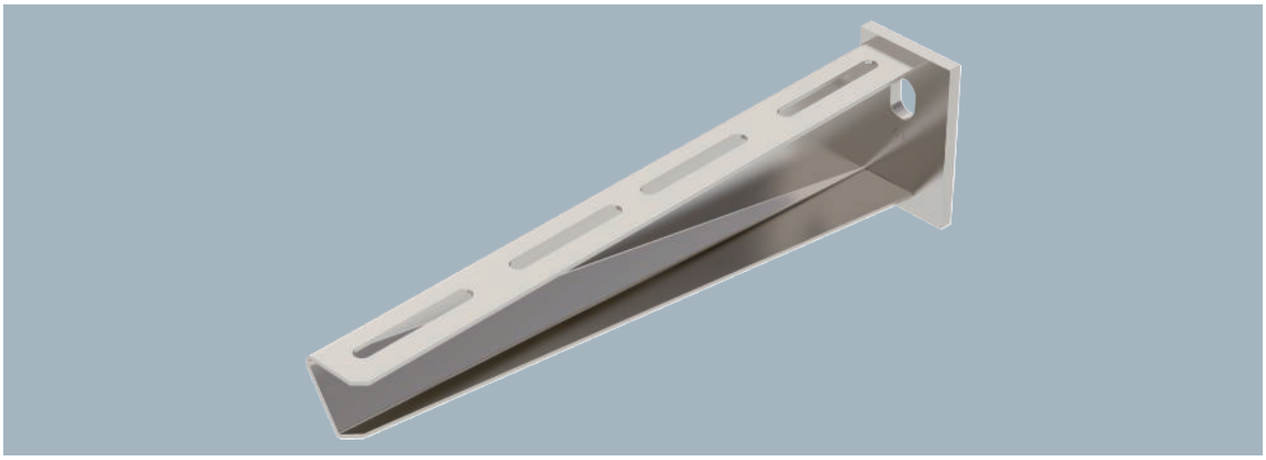
Load [kN]							
Bracket width [mm]	110	160	210	310	410	510	560
Anchor type							
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AW 30

VA 2B



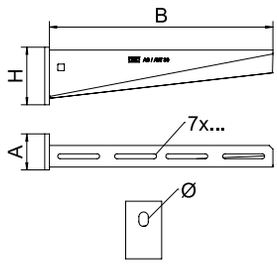
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 A4	110	3	1	21.000	**6443615**
AW 30 21 A4	210	3	1	37.500	**6443311**
AW 30 31 A4	310	3	1	60.500	**6443621**
AW 30 41 A4	410	3	1	85.200	**6443346**
AW 30 51 A4	510	3	1	124.800	**6443625**
AW 30 61 A4	610	3	1	154.000	**6443627**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

Dimensions

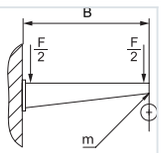
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 A4	110	50	60	11
AW 30 21 A4	210	50	70	13
AW 30 31 A4	310	50	80	13
AW 30 41 A4	410	50	80	13
AW 30 51 A4	510	50	90	13
AW 30 61 A4	610	50	100	13



Load

Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A4	3 kN	110 mm
AW 30 21 A4	3 kN	210 mm
AW 30 31 A4	3 kN	310 mm
AW 30 41 A4	3 kN	410 mm
AW 30 51 A4	3 kN	510 mm
AW 30 61 A4	3 kN	610 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

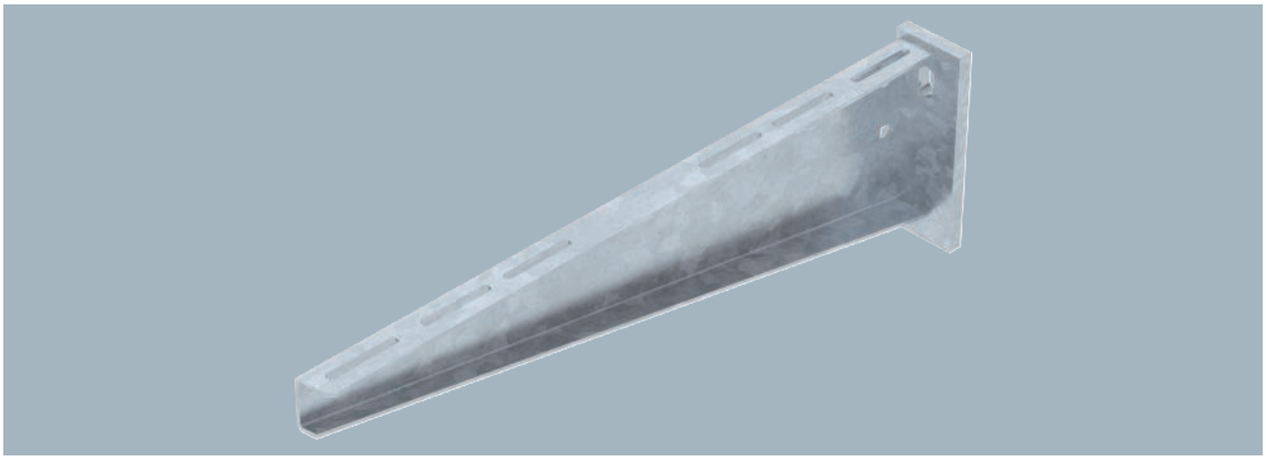
Characteristic anchor load values for AW 30 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	110	160	210	310	410	510	560
Anchor type							
BZ-U 10-10-30/90	1.5	2.1	1.65	1.4	1.5	1	1
BZ 12-15-35/110	3.00	2.65	2.9	1.5	1.9	1.8	1.75

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

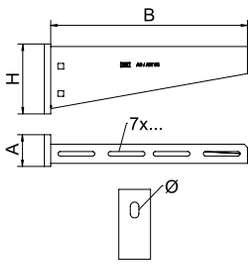
Wall and support bracket AW 55



Heavy-duty wall and support bracket with welded head plate.
Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

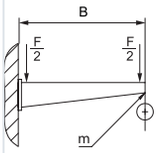
Type	Width mm	F in kN kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 FT	210	5.5	🔥	1	75.700	**6418554**
AW 55 31 FT	310	5.5	🔥	1	122.000	**6418570**
AW 55 41 FT	410	5.5	🔥	1	164.400	**6418597**
AW 55 51 FT	510	5.5		1	238.200	**6418619**
AW 55 56 FT	560	5.5		1	282.000	**6418627**
AW 55 61 FT	610	5.5		1	305.000	**6418635**
AW 55 71 FT	710	5.5		1	418.000	**6418651**
AW 55 81 FT	810	5.5		1	477.000	**6418686**
AW 55 91 FT	910	5.5		1	558.000	**6418708**
AW 55 101 FT	1010	5.5		1	640.000	**6418724**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 FT	210	50	90	13.5
AW 55 31 FT	310	50	110	13.5
AW 55 41 FT	410	50	130	13.5
AW 55 51 FT	510	60	145	13.5
AW 55 56 FT	560	60	165	13.5
AW 55 61 FT	610	60	165	13.5
AW 55 71 FT	710	60	195	13.5
AW 55 81 FT	810	60	195	13.5
AW 55 91 FT	910	60	215	13.5
AW 55 101 FT	1010	60	230	13.5

Load



Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 FT	0.950 kN	210 mm
AW 55 31 FT	0.950 kN	310 mm
AW 55 41 FT	0.950 kN	410 mm
AW 55 51 FT	0.950 kN	510 mm
AW 55 56 FT	0.950 kN	560 mm
AW 55 61 FT	0.950 kN	610 mm
AW 55 71 FT	0.950 kN	710 mm
AW 55 81 FT	0.950 kN	810 mm
AW 55 91 FT	0.950 kN	910 mm
AW 55 101 FT	0.950 kN	1,010 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

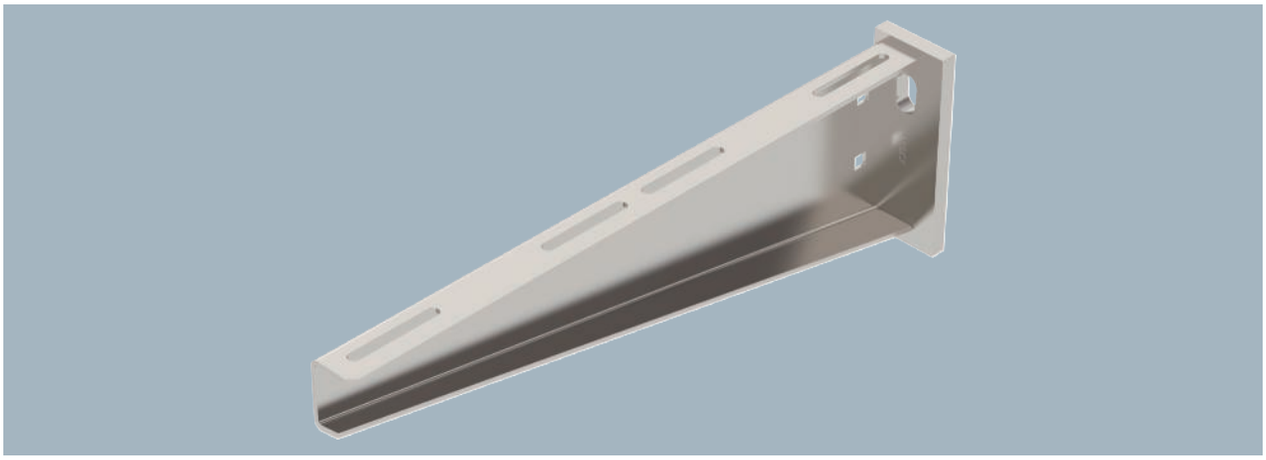
Load [kN]							
Bracket width [mm]	210	310	410	510	560	610	710
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and support bracket AW 55

VA 2B



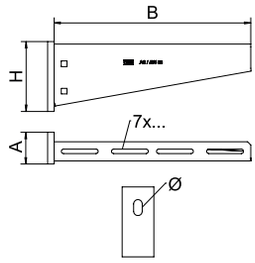
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A2	210	5.5	1	77.000	**6443063**
AW 55 31 A2	310	5.5	1	118.900	**6443067**
AW 55 41 A2	410	5.5	1	162.800	**6443071**
AW 55 51 A2	510	5.5	1	232.500	**6443075**
AW 55 61 A2	610	5.5	1	305.000	**6443079**
AW 55 71 A2	710	5.5	1	445.000	**6443083**

Heavy-duty wall and support bracket with welded head plate.

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Dimensions

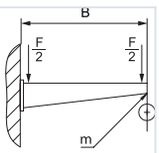
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 A2	210	50	90	13.5
AW 55 31 A2	310	50	110	13.5
AW 55 41 A2	410	50	130	13.5
AW 55 51 A2	510	60	145	13.5
AW 55 61 A2	610	60	165	13.5
AW 55 71 A2	710	60	195	13.5



Load

Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A2	0.950 kN	210 mm
AW 55 31 A2	0.950 kN	310 mm
AW 55 41 A2	0.950 kN	410 mm
AW 55 51 A2	0.950 kN	510 mm
AW 55 61 A2	0.950 kN	610 mm
AW 55 71 A2	0.950 kN	710 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

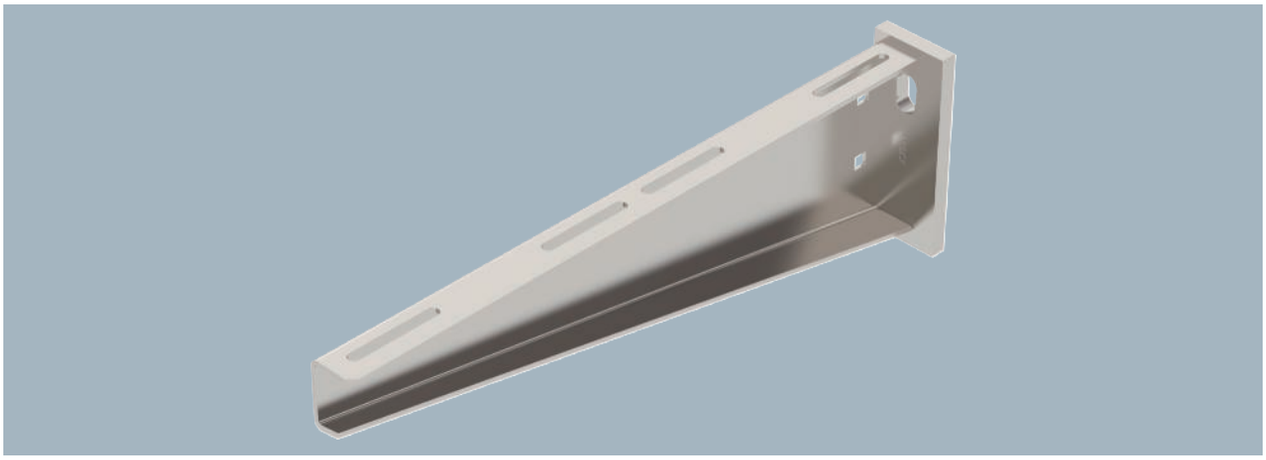
Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	210	310	410	510	560	610	710
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

VA 2B

Wall and support bracket AW 55

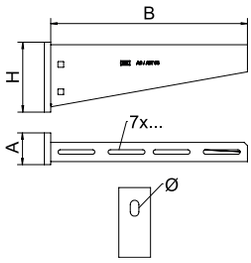


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Heavy-duty wall and support bracket with welded head plate.

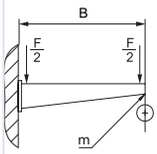
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 A4	210	5.5	1	77.000	**6418557**
AW 55 31 A4	310	5.5	1	118.900	**6418573**
AW 55 41 A4	410	5.5	1	162.800	**6418601**
AW 55 51 A4	510	5.5	1	232.500	**6418622**
AW 55 61 A4	610	5.5	1	305.000	**6418638**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 A4	210	50	90	13.5
AW 55 31 A4	310	50	110	13.5
AW 55 41 A4	410	50	130	13.5
AW 55 51 A4	510	60	145	13.5
AW 55 61 A4	610	60	165	13.5

Load



Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 A4	0.950 kN	210 mm
AW 55 31 A4	0.950 kN	310 mm
AW 55 41 A4	0.950 kN	410 mm
AW 55 51 A4	0.950 kN	510 mm
AW 55 61 A4	0.950 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AW 55 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	210	310	410	510	560	610	710
Anchor type							
BZ-U 10-10-30/90	2.2	2.1	2	1.9	1.9	1.8	1.75
BZ 12-15-35/110	3.8	3.5	3.5	3.25	3.3	3	3
SZ-B 18/0x142	4.10	4.06	4.02	3.83	3.83	3.56	2.88

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall bracket AW 80

St FT

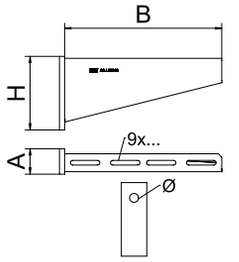
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AW 80 21 FT	210	8		1	104.000	**6417752**
AW 80 31 FT	310	8		1	160.000	**6417779**
AW 80 41 FT	410	8		1	213.000	**6417795**
AW 80 51 FT	510	8		1	355.000	**6417817**
AW 80 61 FT	610	8		1	433.000	**6417833**
AW 80 71 FT	710	8		1	525.000	**6417868**
AW 80 81 FT	810	8		1	623.000	**6417884**

When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

Heavy-duty wall bracket with welded head plate.

Dimensions

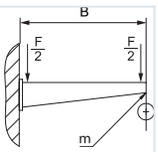
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 80 21 FT	210	50	110	17.5
AW 80 31 FT	310	50	145	17.5
AW 80 41 FT	410	50	165	17.5
AW 80 51 FT	510	60	195	17.5
AW 80 61 FT	610	60	210	17.5
AW 80 71 FT	710	60	235	17.5
AW 80 81 FT	810	60	260	17.5



Load

Characteristic anchor load values for wall bracket AW 80 - wall fastening

Item on test	Force F (SWL)	Width B
AW 80 21 FT	8 kN	210 mm
AW 80 31 FT	8 kN	310 mm
AW 80 41 FT	8 kN	410 mm
AW 80 51 FT	8 kN	510 mm
AW 80 61 FT	8 kN	610 mm
AW 80 71 FT	8 kN	710 mm
AW 80 81 FT	8 kN	810 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

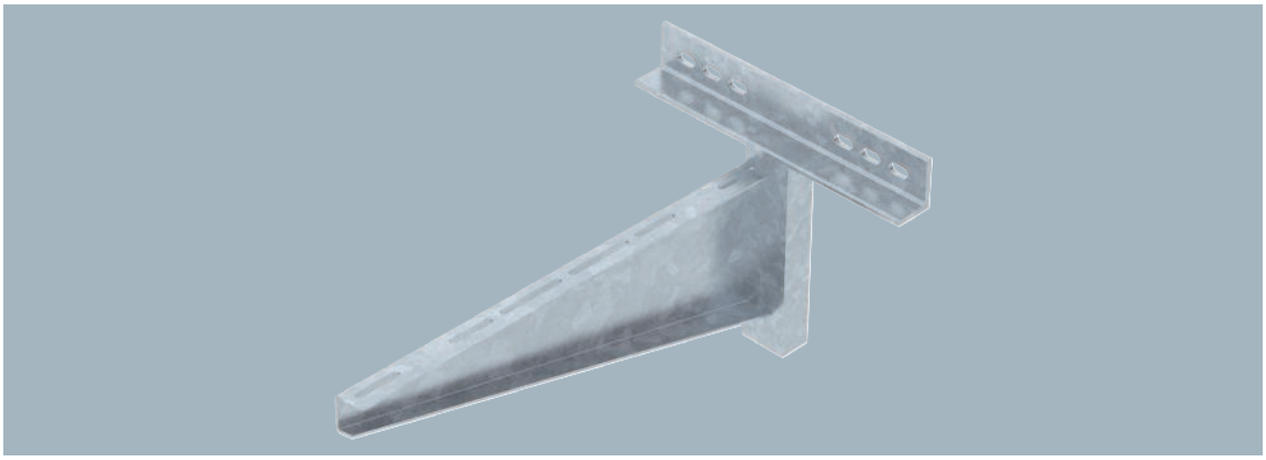
Characteristic anchor load values for AW 80 wall and support bracket – wall fastening

Load [kN]							
Bracket width [mm]	210	310	410	510	610	710	810
Anchor type							
BZ 12-15-35/110	4.75	4.6	4.5	4.5	4.25	3.8	3.5
BZ 16-15-35/135	6.5	6.7	5.8	5.6	5.3	4.6	4.3

The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Please comply with the installation conditions of the DIBt approval (anchors).

St FT

Wall and clamping bracket AWSS

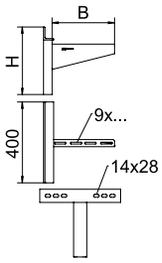


The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.

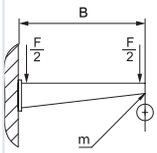
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 FT	210	10		1	305.100	**6417906**
AWSS 31 FT	310	10		1	533.600	**6417910**
AWSS 41 FT	410	10		1	584.400	**6417914**
AWSS 51 FT	510	10		1	693.000	**6417918**
AWSS 61 FT	610	10		1	742.300	**6417922**
AWSS 71 FT	710	8		1	840.000	**6417926**
AWSS 81 FT	810	7		1	923.000	**6417930**
AWSS 91 FT	910	6.5		1	1,020.000	**6417934**
AWSS 101 FT	1010	6		1	1,134.000	**6417938**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWSS 21 FT	210	400	200	14
AWSS 31 FT	310	400	335	14
AWSS 41 FT	410	400	335	14
AWSS 51 FT	510	400	335	14
AWSS 61 FT	610	400	335	14
AWSS 71 FT	710	400	335	14
AWSS 81 FT	810	400	341	14
AWSS 91 FT	910	400	366	14
AWSS 101 FT	1010	400	391	14

Load



Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 FT	10 kN	210 mm
AWSS 31 FT	10 kN	310 mm
AWSS 41 FT	10 kN	410 mm
AWSS 51 FT	10 kN	510 mm
AWSS 61 FT	10 kN	610 mm
AWSS 71 FT	8 kN	710 mm
AWSS 81 FT	7 kN	810 mm
AWSS 91 FT	6.5 kN	910 mm
AWSS 101 FT	6 kN	1,010 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for AWSS wall bracket – wall fastening

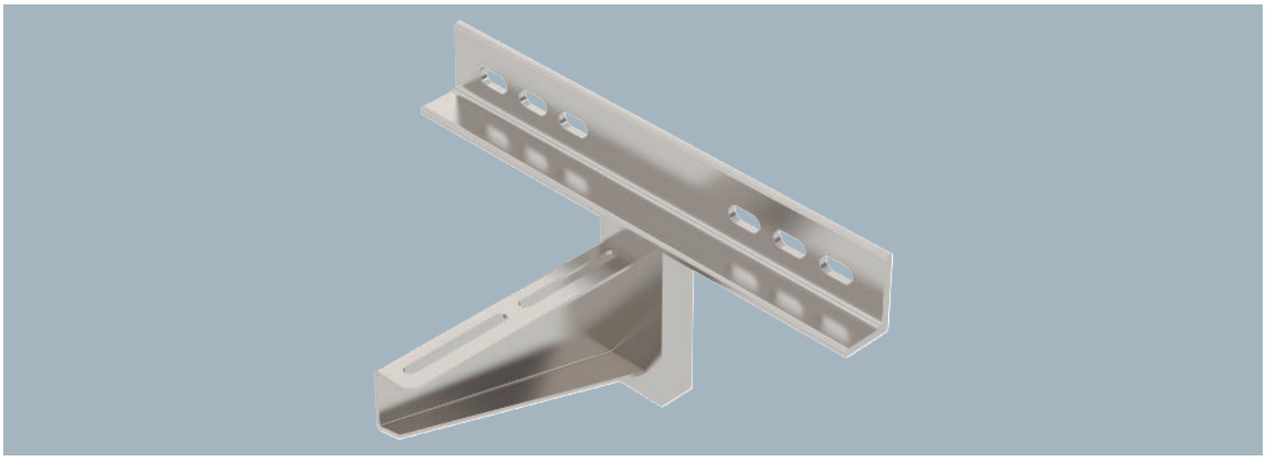
Load [kN]									
Bracket width [mm]	210	310	410	510	610	710	810	910	1,010
Anchor type									
BZ 12-15-35/110	10	10	10	10	10	8	7	6.5	6

Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Wall and clamping bracket AWSS

VA VA 2B



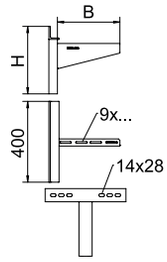
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 A2	210	10	1	302.000	**6417941**
AWSS 31 A2	310	10	1	528.000	**6417943**
AWSS 41 A2	410	10	1	57.400	**6417945**
AWSS 51 A2	510	10	1	666.000	**6417947**
AWSS 61 A2	610	10	1	733.000	**6417949**
AWSS 21 A4	210	10	1	306.000	**6417971**
AWSS 31 A4	310	10	1	535.000	**6417973**
AWSS 41 A4	410	10	1	58.100	**6417975**
AWSS 51 A4	510	10	1	67.500	**6417977**
AWSS 61 A4	610	10	1	74.200	**6417979**

The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWSS 21 A2	210	400	200	14
AWSS 31 A2	310	400	335	14
AWSS 41 A2	410	400	335	14
AWSS 51 A2	510	400	335	14
AWSS 61 A2	610	400	335	14

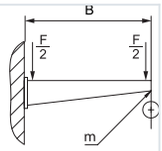
Dimensions



Load

Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening

Item on test	Force F (SWL)	Width B
AWSS 21 A4	10 kN	210 mm
AWSS 31 A2	10 kN	310 mm
AWSS 41 A4	10 kN	410 mm
AWSS 51 A2	10 kN	510 mm
AWSS 61 A4	10 kN	610 mm
AWSS 71 A2	8 kN	710 mm
AWSS 81 A4	7 kN	810 mm
AWSS 91 A2	6.5 kN	910 mm
AWSS 101 A4	6 kN	1,010 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

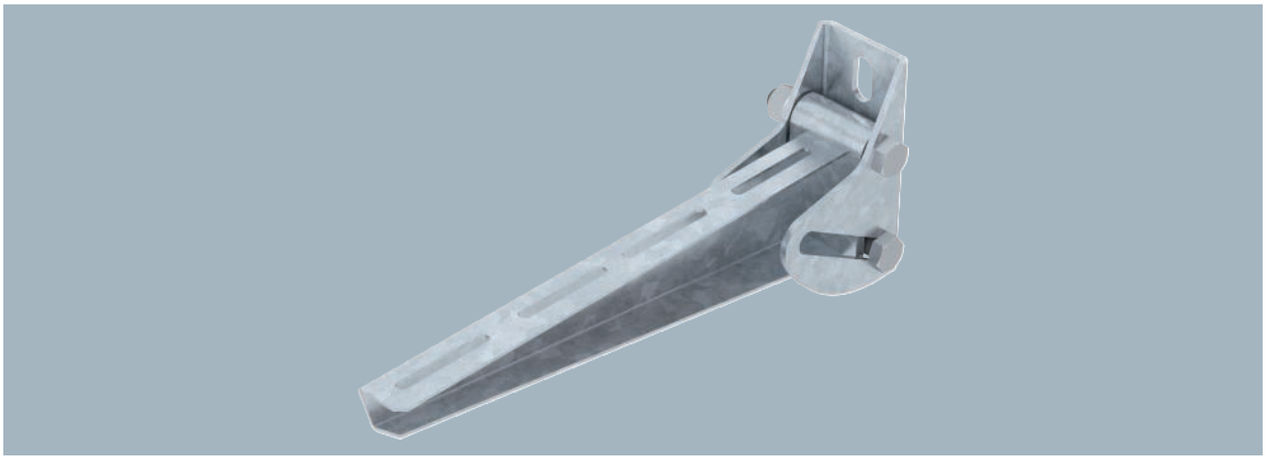
Characteristic anchor load values for AWSS wall and support bracket - wall fastening

Load [kN]									
Bracket width [mm]	210	310	410	510	610	710	810	910	1,010
Anchor type									
BZ 12-15-35/110	10th	10th	10th	10th	10th	8	7	6.5	6

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

St FT

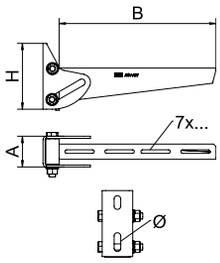
Wall bracket, variable AWV



Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.
Variable wall bracket for fixing to sloping or vaulted walls.

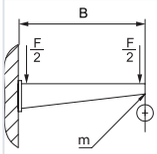
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWV 21 FT	210	0.9	1	129.000	**6419534**
AWV 31 FT	310	0.9	1	149.000	**6419550**
AWV 41 FT	410	0.9	1	171.000	**6419577**
AWV 51 FT	510	0.9	1	209.000	**6419593**
AWV 61 FT	610	0.9	1	239.000	**6419615**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWV 21 FT	210	60	130	13
AWV 31 FT	310	60	130	13
AWV 41 FT	410	60	130	13
AWV 51 FT	510	60	130	13
AWV 61 FT	610	60	130	13

Load



Characteristic anchor load values for AWV wall bracket – wall fastening

Item on test	Force F (SWL)	Width B
AWV 21 FT	0.9 kN	210 mm
AWV 31 FT	0.9 kN	310 mm
AWV 41 FT	0.9 kN	410 mm
AWV 51 FT	0.9 kN	510 mm
AWV 61 FT	0.9 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Adapter plate KA-AW 30

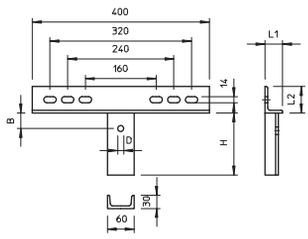
St FT

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-AW 30 FT	1	247.000	**6346715**
KA-AW 80 FT	1	424.000	**6346731**

The bracket types AW 30, AW 55 and AW 80 can be screwed to the adapter plate. Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

Adapter plate with slots for universal fastening to vertical steel girders and walls.

Dimensions



Type	Height mm	Width mm
KA-AW 30 FT	140	400
KA-AW 80 FT	270	400

Adapter plate 45°

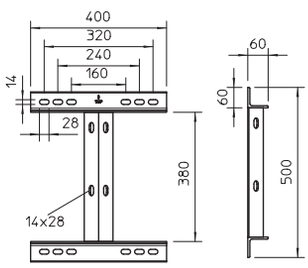
St FT

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-E 45 FT	1	618.000	**6346758**

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

Dimensions



Type	Height mm	Width mm
KA-E 45 FT	500	400

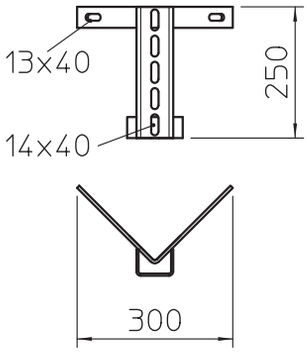
St FT

Corner seat

Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-EA FT	1	201.000	6346763

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.

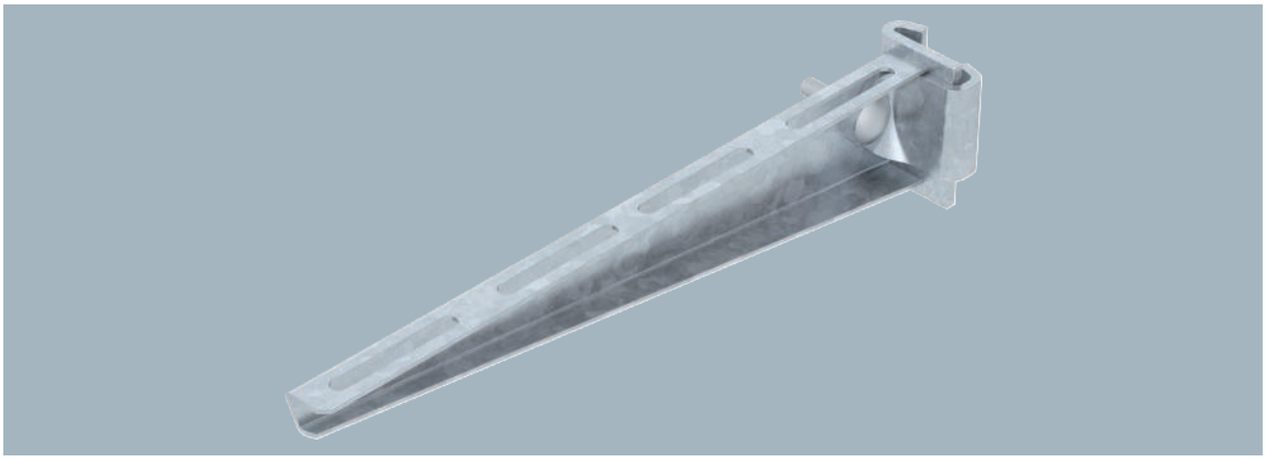
Dimensions



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Support bracket AS 15

St FT



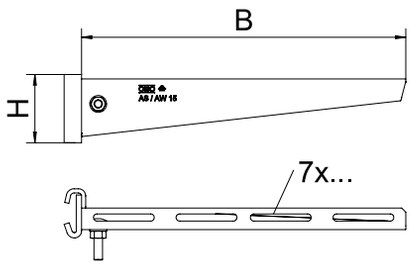
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 15 11 FT	110	1.5	1	27.400	**6421326**
AS 15 16 FT	160	1.5	1	32.800	**6421334**
AS 15 21 FT	210	1.5	1	39.400	**6421350**
AS 15 31 FT	310	1.5	1	46.500	**6421385**
AS 15 41 FT	410	1.5	1	66.000	**6421423**
AS 15 51 FT	510	1.5	1	79.600	**6421466**
AS 15 61 FT	610	1.5	1	87.100	**6421490**

The support bracket can be fastened to both sides of the I support.
The necessary clamping lug (item no. 6419015), including bolt and nut can be ordered individually for bracket widths 110–160 mm.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

Type	Dim. B mm	Dim. H mm
AS 15 11 FT	110	50
AS 15 16 FT	160	55
AS 15 21 FT	210	60
AS 15 31 FT	310	65
AS 15 41 FT	410	70
AS 15 51 FT	510	75
AS 15 61 FT	610	80

Dimensions



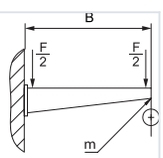
Load diagram, bracket type AS 15

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

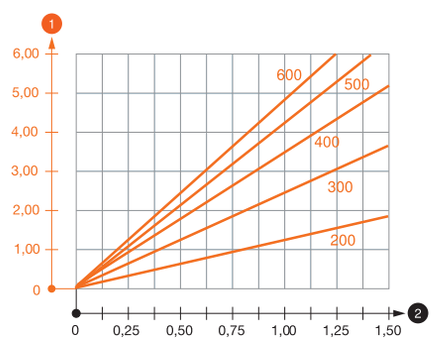
Characteristic anchor load values for AS 15 wall and support bracket – wall fastening

Item on test	Force F (SWL)	Width B
AS 15 11 FT	0.15 kN	110 mm
AS 15 16 FT	0.15 kN	160 mm
AS 15 21 FT	0.15 kN	210 mm
AS 15 31 FT	0.15 kN	310 mm
AS 15 41 FT	0.15 kN	410 mm
AS 15 51 FT	0.15 kN	510 mm
AS 15 61 FT	0.15 kN	610 mm



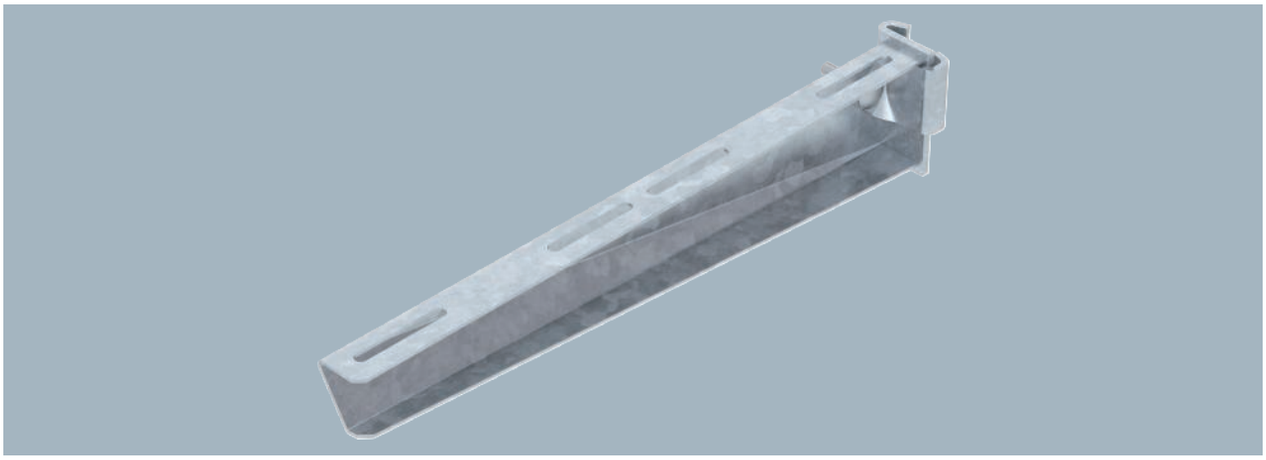
Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Load



St FT

Support bracket AS 30

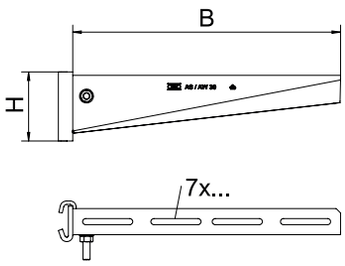


The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

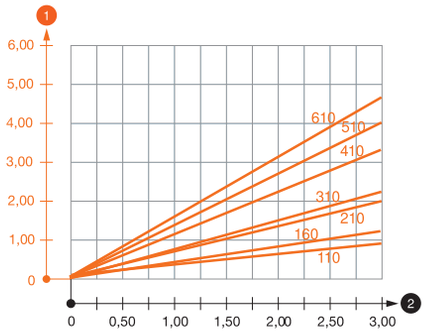
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 30 11 FT	110	3	1	30.000	**6419370**
AS 30 16 FT	160	3	1	37.000	**6419376**
AS 30 21 FT	210	3	1	44.000	**6419382**
AS 30 31 FT	310	3	1	73.000	**6419388**
AS 30 41 FT	410	3	1	100.000	**6419394**
AS 30 51 FT	510	3	1	140.000	**6419400**
AS 30 56 FT	560	3	1	155.000	**6419406**
AS 30 61 FT	610	3	1	168.000	**6419412**
AS 30 71 FT	710	3	1	214.000	**6419418**

Dimensions



Type	Dim. B mm	Dim. H mm
AS 30 11 FT	110	60
AS 30 16 FT	160	65
AS 30 21 FT	210	70
AS 30 31 FT	310	80
AS 30 41 FT	410	80
AS 30 51 FT	510	90
AS 30 56 FT	560	100
AS 30 61 FT	610	100
AS 30 71 FT	710	100

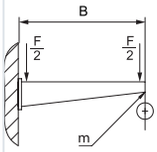
Load



Load diagram, bracket type AS 30

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for AS30 support bracket

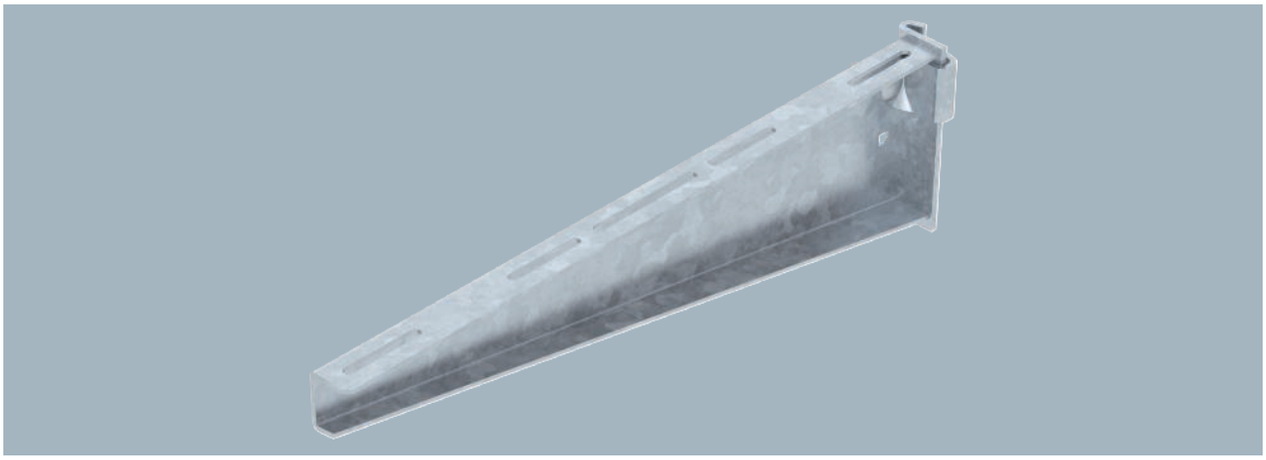
Item on test	Force F (SWL)	Width B
AS 30 11 FT	3 kN	110 mm
AS 30 16 FT	3 kN	160 mm
AS 30 21 FT	3 kN	210 mm
AS 30 31 FT	3 kN	310 mm
AS 30 41 FT	3 kN	410 mm
AS 30 51 FT	3 kN	510 mm
AS 30 56 FT	3 kN	560 mm
AS 30 61 FT	3 kN	610 mm
AS 30 71 FT	3 kN	710 mm

Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Support bracket AS 55

St FT



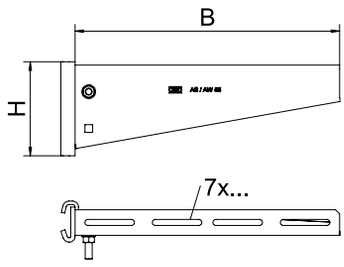
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 55 21 FT	210	5.5	1	74.200	**6419286**
AS 55 31 FT	310	5.5	1	133.000	**6419292**
AS 55 41 FT	410	5.5	1	153.000	**6419298**
AS 55 51 FT	510	5.5	1	233.000	**6419304**
AS 55 56 FT	560	5.5	1	260.000	**6419310**
AS 55 61 FT	610	5.5	1	283.000	**6419316**
AS 55 71 FT	710	5.5	1	385.000	**6419322**
AS 55 81 FT	810	5.5	1	409.200	**6419328**
AS 55 91 FT	910	5.5	1	517.000	**6419334**
AS 55 101 FT	1010	5.5	1	557.600	**6419340**

The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

Type	Dim. B mm	Dim. H mm
AS 55 21 FT	210	90
AS 55 31 FT	310	110
AS 55 41 FT	410	130
AS 55 51 FT	510	145
AS 55 56 FT	560	165
AS 55 61 FT	610	165
AS 55 71 FT	710	195
AS 55 81 FT	810	195
AS 55 91 FT	910	195
AS 55 101 FT	1010	195

Dimensions



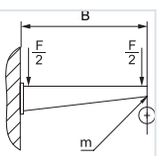
Load diagram, bracket type AS 55

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

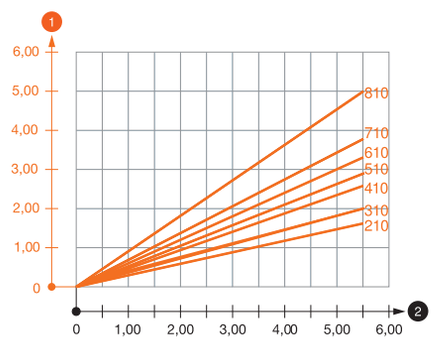
Characteristic anchor load values for AS55 support bracket

Item on test	Force F (SWL)	Width B
AS 55 21 FT	0.950 kN	210 mm
AS 55 31 FT	0.950 kN	310 mm
AS 55 41 FT	0.950 kN	410 mm
AS 55 51 FT	0.950 kN	510 mm
AS 55 56 FT	0.950 kN	560 mm
AS 55 61 FT	0.950 kN	610 mm
AS 55 71 FT	0.950 kN	710 mm
AS 55 81 FT	0.950 kN	810 mm
AS 55 91 FT	0.950 kN	910 mm
AS 55 101 FT	0.950 kN	1,010 mm



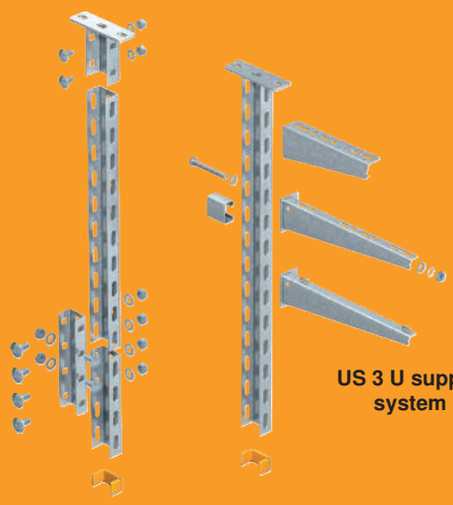
Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

Load



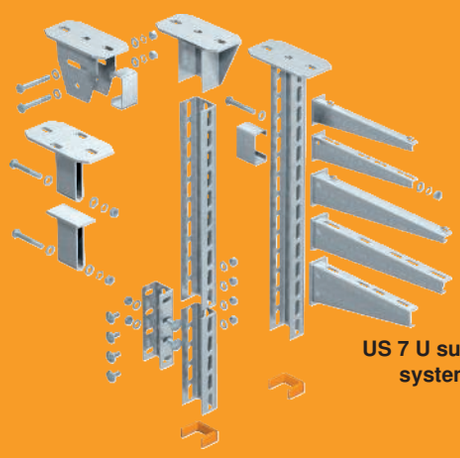
U support family

The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.



US 3 U support system

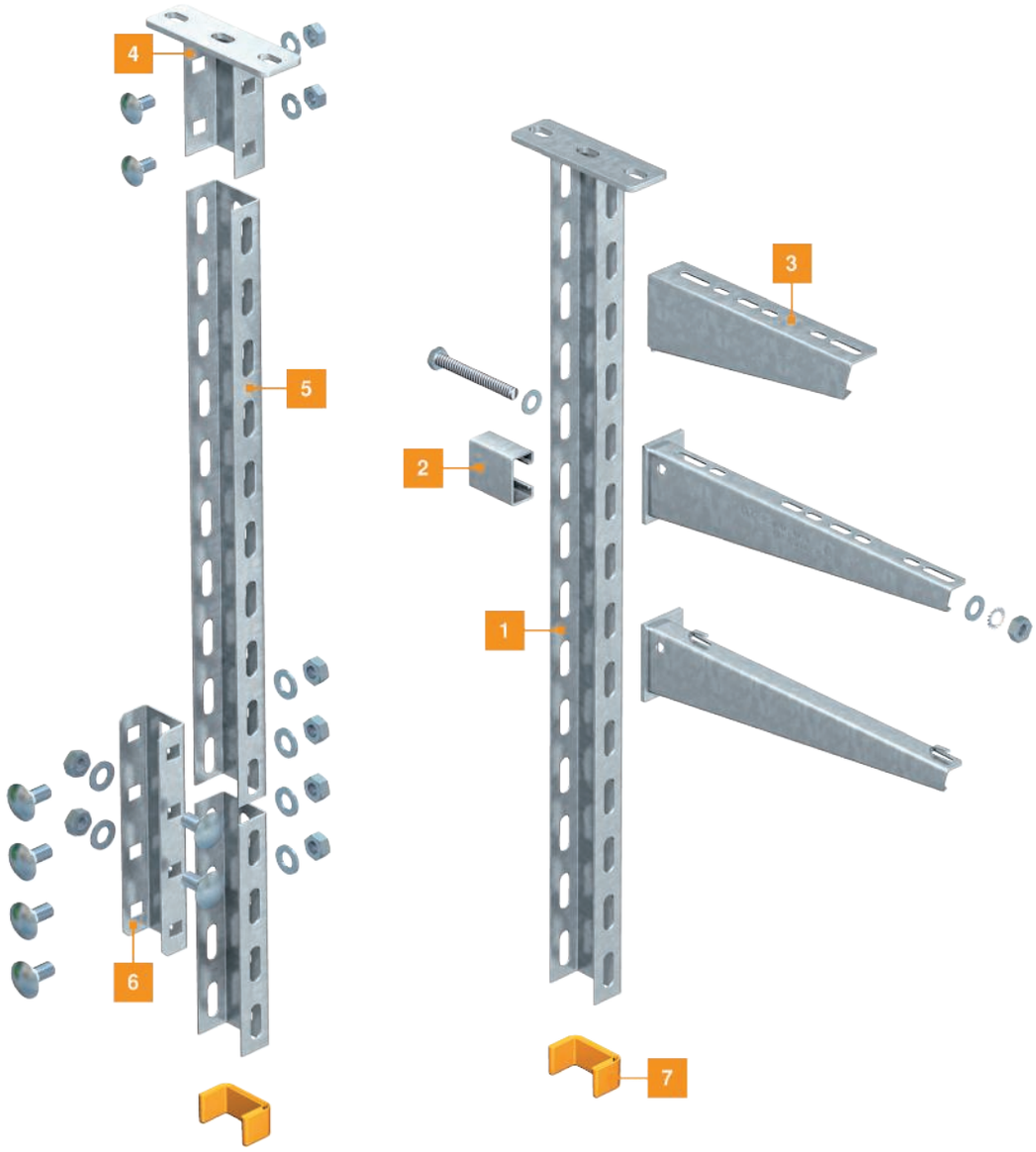
US 5 U support system



US 7 U support system

US 3 U support system

Installation principle



1	US 3 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 3 support
6	U support connector
7	End cap

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

U supports and brackets

Standard mounting of suspended support with wall bracket, single-sided without spacer
Ceiling fastening of a suspended support with single-sided bracket fastening. A spacer is not always required for widths up to and including 300 mm.

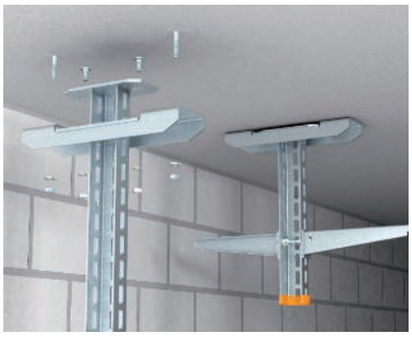
Standard mounting of support with wall and support bracket, single-sided with spacer
Cover fixing of a suspended support with single-sided bracket fixing. For widths of over 400 mm, we recommend using a spacer.

Standard mounting of support with wall and support bracket, double-sided
Cover fixing of a suspended support with double-sided bracket mounting.

Ceiling mounting
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.

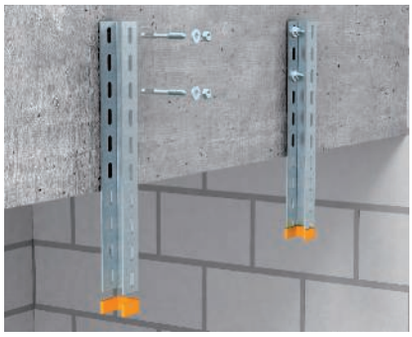
Head plate mounting
Mounting of the standard head plate to support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).

Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



Adapter head plate, symmetrical
Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.

Traverse
Mounting of U suspended supports US 3 K, US 5 K and US 7 K under the ceiling using bolt ties and a trapeze, consisting of U profile US 3, US 5 or US 7.



U support wall mounting
U supports are mounted on walls or girders using bolt ties, directly through the system perforation in the U support.

U support connection
To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.

Installation of spacer
Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.

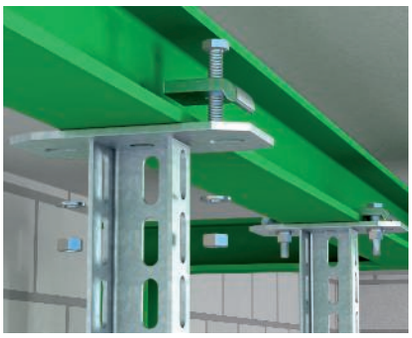
Variable head plate with US 3 support
Installation of the variable head plate, type KU 3 V on US 3 support.

Variable head plate
Fastening of the variable head plate KU 5 V to sloping concrete ceilings using bolt ties and spacer DSK 47.

Variable head plate
Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using bolt ties and spacer DSK 45.

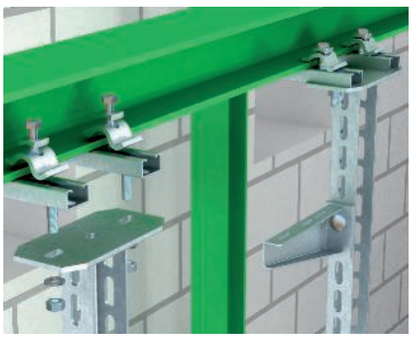
45° adapter plate, concrete mounting
Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.

45° adapter plate, steel clamping
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



Direct girder clamping
Direct girder clamping of a U suspended support using KWS clamping angle. Route in longitudinal direction of steel girder.

Steel clamping with C profile, route in longitudinal direction
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route along steel girder.



Steel clamping with C profile, route in transverse direction
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route transverse to steel girder.

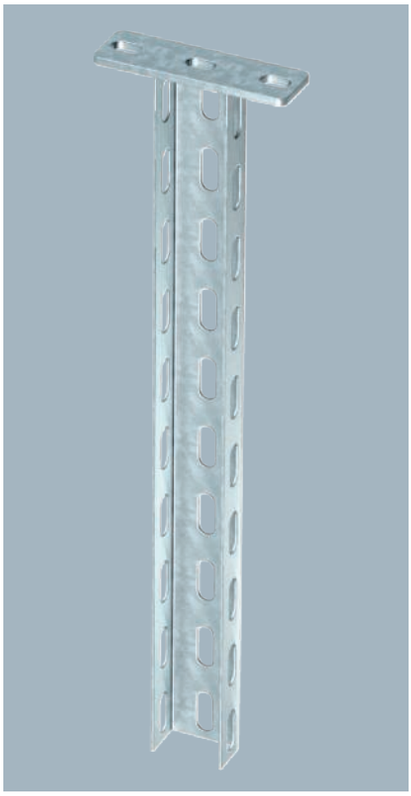
Head plate mounting
Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.

Cantilever beam on steel
U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 3 support

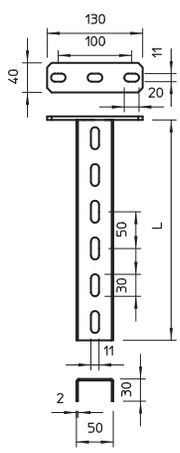
St FT



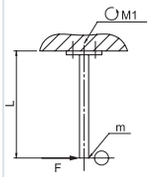
Type	Length mm	Material thickness mm	Tensile load kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 FT	200	2	5		1	50.500	**6342351**
US 3 K 30 FT	300	2	5		1	64.400	**6342353**
US 3 K 40 FT	400	2	5		1	78.300	**6342355**
US 3 K 50 FT	500	2	5		1	92.300	**6342357**
US 3 K 60 FT	600	2	5		1	106.200	**6342359**
US 3 K 70 FT	700	2	5		1	120.200	**6342362**
US 3 K 80 FT	800	2	5		1	134.100	**6342364**
US 3 K 90 FT	900	2	5		1	147.800	**6342366**
US 3 K 100 FT	1000	2	5		1	162.000	**6342368**
US 3 K 110 FT	1100	2	5		1	175.900	**6342370**
US 3 K 120 FT	1200	2	5		1	189.900	**6342372**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



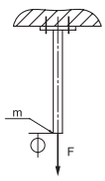
Load



Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

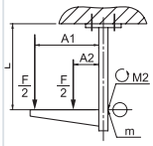
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

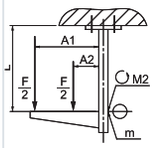
Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



Testing of the bending torque on the support with bracket with spacer

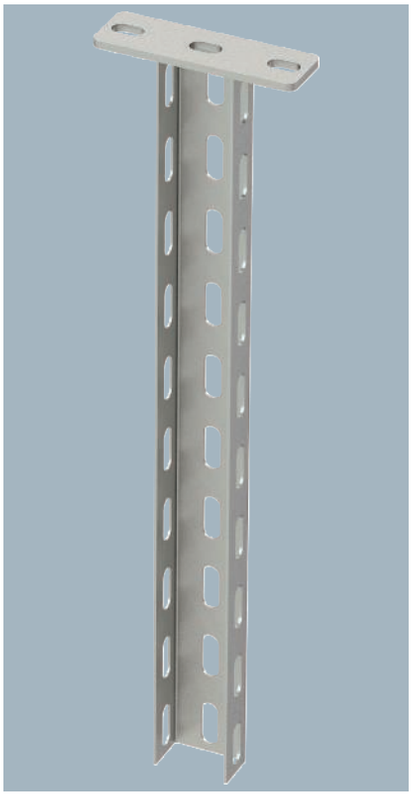
Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

VA 2B

US 3 support

Type	Length mm	Material thickness mm	Tensile load kN		Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 A2	200	2	5		1	44.000	**6342401**
US 3 K 30 A2	300	2	5		1	58.000	**6342403**
US 3 K 40 A2	400	2	5		1	71.000	**6342405**
US 3 K 50 A2	500	2	5		1	84.000	**6342407**
US 3 K 60 A2	600	2	5		1	97.000	**6342409**
US 3 K 70 A2	700	2	5		1	110.000	**6342411**
US 3 K 80 A2	800	2	5		1	123.000	**6342413**
US 3 K 90 A2	900	2	5		1	137.000	**6342415**
US 3 K 100 A2	1000	2	5		1	150.000	**6342417**

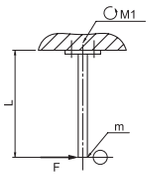


Load

Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

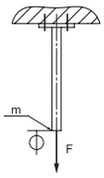
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

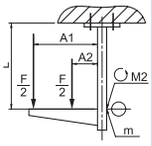
Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

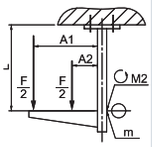
Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



Testing of the bending torque on the support with bracket with spacer

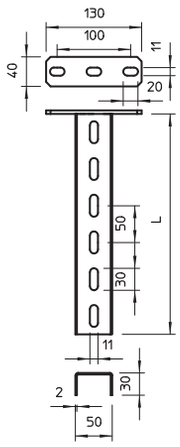
Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

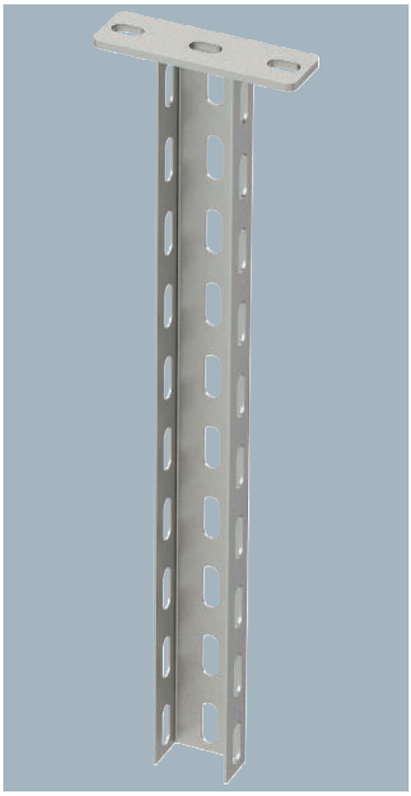
Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 3 support

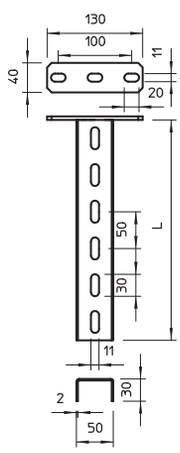
VA 2B



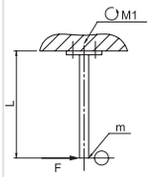
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 A4	200	2	5	1	44.000	**6342375**
US 3 K 30 A4	300	2	5	1	58.000	**6342530**
US 3 K 40 A4	400	2	5	1	71.000	**6342379**
US 3 K 50 A4	500	2	5	1	84.000	**6342381**
US 3 K 60 A4	600	2	5	1	97.000	**6342389**
US 3 K 70 A4	700	2	5	1	110.000	**6342391**
US 3 K 80 A4	800	2	5	1	123.000	**6342393**
US 3 K 90 A4	900	2	5	1	137.000	**6342395**
US 3 K 100 A4	1000	2	5	1	150.000	**6342397**
US 3 K 110 A4	1100	2	5	1	166.000	**6342396**
US 3 K 120 A4	1200	2	5	1	110.000	**6342398**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



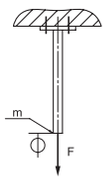
Load



Testing of the bending torque on the ceiling plate

Item on test	US 3 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.462 kN
Bending torque M1 (SWL)	370 Nm

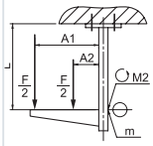
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

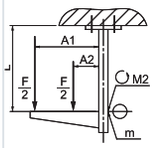
Item on test	US 3 K 80
Deformation measuring point m	
Force F (SWL)	20 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



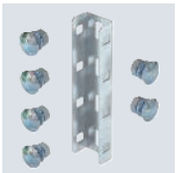
Testing of the bending torque on the support with bracket with spacer

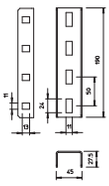
Item on test	US 3 K 80	US 3 K 120
	AW 15 61	AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm

According to IEC 61537, Chapter 10.8.2.3, without spacer

VUS 3 U support connector

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT	10	48.300	**6018513**

U support connector to connect US 3 supports.

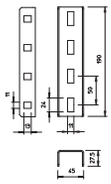
Including appropriate fastening material.

VA VA 2B

VUS 3 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 A2	1	48.200	6018517
VUS 3 A4	1	48.200	6018520

U support connector to connect US 3 supports.
Including appropriate fastening material.

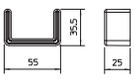


PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	6338458

Protective cap to cover the ends of US 3 supports.

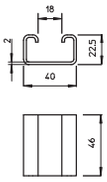


St FT

DSK 25 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 FT	20	7.500	6416446

Spacer for use in US 3 supports.

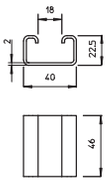


VA VA 2B

DSK 25 spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 A2	10	7.500	6416448
DSK 25 A4	10	7.500	6416450

Spacer for use in US 3 supports.

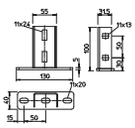


St FT

Head plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 FT	1	42.300	6348874

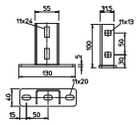
The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.
Head plate for mounting on US 3 supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Head plate

VA VA 2B



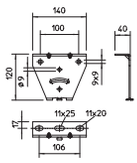
Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 A2	1	41.000	6348876
KU 3 A4	1	40.700	6348877

The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.

Head plate for mounting on US 3 supports.

Head plate, variable

St FS FT



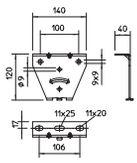
Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 V FS	1	40.000	6348881
KU 3 V FT	1	41.300	6348883

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518. The maximum angle adjustment is 20° on one side.

Variable head plate for installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Head plate, variable

VA 2B



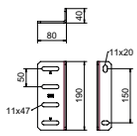
Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 V A2	1	40.000	6348884

The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Head plate for the installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

Fastening bracket for US 3/US 5 support

St FT



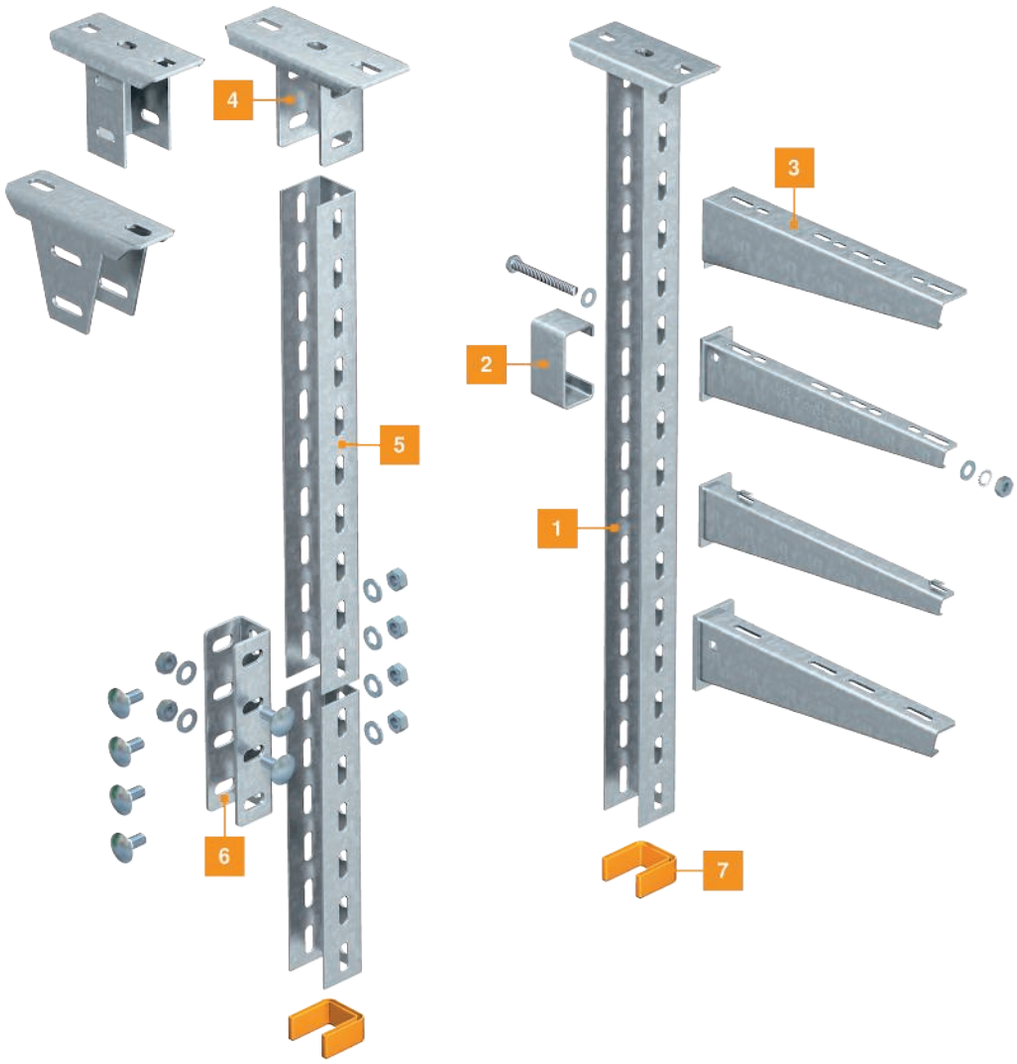
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 3/5 FT	5	71.100	6019534

Suitable for U support, type US 3 and US 5.

Fastening bracket for the creation of individual support structures with U supports.

US 5 U support system

Installation principle



1	US 5 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 5 support
6	U support connector
7	End cap

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US5 U suspended supports

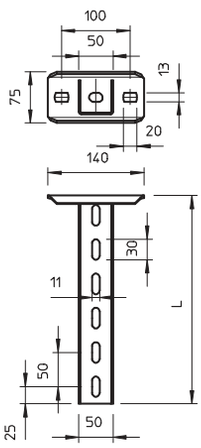
US 5 support

St FT

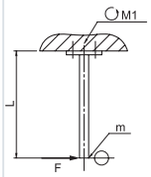
Type	Length mm	Material thickness mm	Tensile load kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 20 FT	200	2.5	10		1	85.000	**6341527**
US 5 K 30 FT	300	2.5	10		1	110.000	**6341535**
US 5 K 40 FT	400	2.5	10		1	136.000	**6341543**
US 5 K 50 FT	500	2.5	10		1	161.000	**6341551**
US 5 K 60 FT	600	2.5	10		1	185.000	**6341578**
US 5 K 70 FT	700	2.5	10		1	210.000	**6341586**
US 5 K 80 FT	800	2.5	10		1	236.000	**6341594**
US 5 K 90 FT	900	2.5	10		1	261.000	**6341608**
US 5 K 100 FT	1000	2.5	10		1	286.000	**6341616**
US 5 K 110 FT	1100	2.5	10		1	311.000	**6341624**
US 5 K 120 FT	1200	2.5	10		1	337.000	**6341632**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support of dimensions 50 x 50 mm with welded head plate.



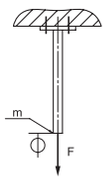
Load



Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

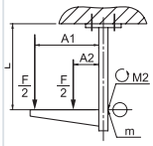
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

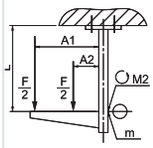
Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 31 FT	AW 30 31 FT
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



Testing of the bending torque on the support with bracket with spacer

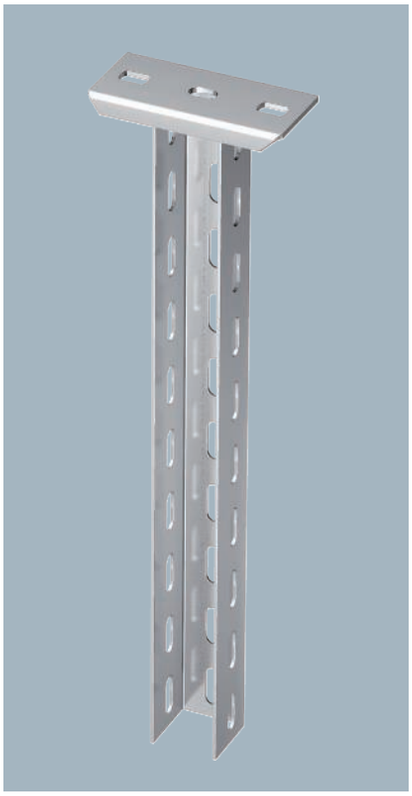
Item on test	US 5 K 80	US 5 K 120
	AW 30 71 FT	AW 30 71 FT
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	1.094 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3

VA 2B

US 5 support

Type	Length mm	Material thickness mm	Tensile load kN		Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 20 A2	200	2.5	10		1	100.000	**6341358**
US 5 K 30 A2	300	2.5	10		1	125.000	**6341362**
US 5 K 40 A2	400	2.5	10		1	150.000	**6341366**
US 5 K 50 A2	500	2.5	10		1	175.000	**6341370**
US 5 K 60 A2	600	2.5	10		1	200.000	**6341374**
US 5 K 70 A2	700	2.5	10		1	225.000	**6341378**
US 5 K 80 A2	800	2.5	10		1	255.000	**6341382**
US 5 K 90 A2	900	2.5	10		1	280.000	**6341386**
US 5 K 100 A2	1000	2.5	10		1	300.000	**6341390**
US 5 K 110 A2	1100	2.5	10		1	330.000	**6341394**
US 5 K 120 A2	1200	2.5	10		1	360.000	**6341398**

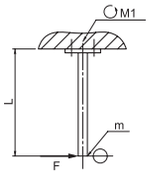


Load

Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

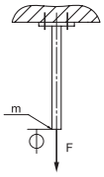
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

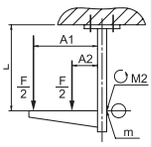
Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

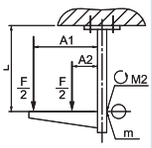
Item on test	US 5 K 80	US 5 K 120
	AW 30 31	AW 30 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



Testing of the bending torque on the support with bracket with spacer

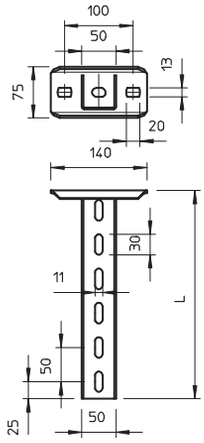
Item on test	US 5 K 80	US 5 K 120
	AW 30 71	AW 30 71
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.

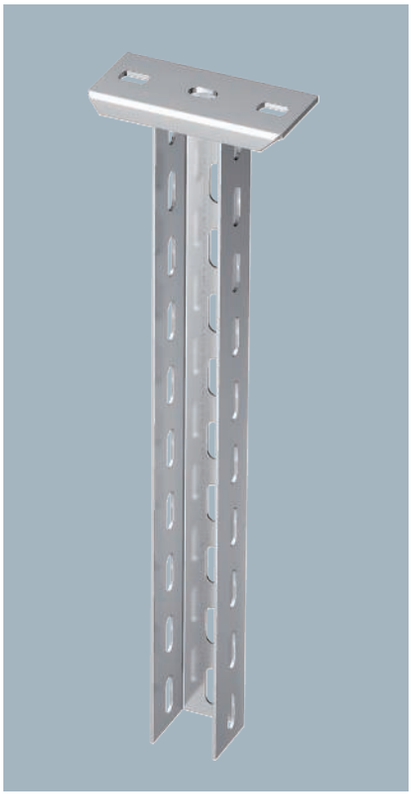


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US5 U suspended supports

US 5 support

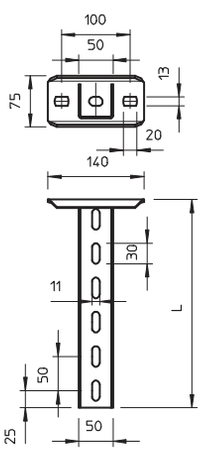
VA 2B



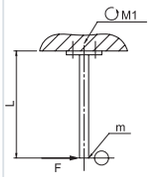
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 20 A4	200	2.5	10	1	100.000	**6341209**
US 5 K 30 A4	300	2.5	10	1	125.000	**6341213**
US 5 K 40 A4	400	2.5	10	1	150.000	**6341217**
US 5 K 50 A4	500	2.5	10	1	175.000	**6341221**
US 5 K 60 A4	600	2.5	10	1	180.000	**6341225**
US 5 K 70 A4	700	2.5	10	1	225.000	**6341228**
US 5 K 80 A4	800	2.5	10	1	255.000	**6341233**
US 5 K 90 A4	900	2.5	10	1	280.000	**6341237**
US 5 K 100 A4	1000	2.5	10	1	300.000	**6341241**
US 5 K 110 A4	1100	2.5	10	1	330.000	**6341245**
US 5 K 120 A4	1200	2.5	10	1	360.000	**6341249**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.



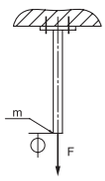
Load



Testing of the bending torque on the ceiling plate

Item on test	US 5 K 80
Deformation measuring point m	
Length L	800 mm
Force F	0.950 kN
Bending torque M1 (SWL)	760 Nm

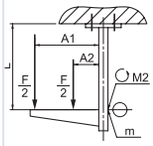
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

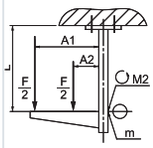
Item on test	US 5 K 80
Deformation measuring point m	
Force F (SWL)	26 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 31	AW 30 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



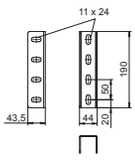
Testing of the bending torque on the support with bracket with spacer

Item on test	US 5 K 80	US 5 K 120
	AW 30 71	AW 30 71
Deformation measuring point m		
A1 lever arm	710 mm	710 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.272 kN	0.950 kN
Bending torque M2 (SWL)	500 Nm	430 Nm

According to IEC 61537, Chapter 10.8.2.3

VUS 5 U support connector

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT	10	44.000	**6018505**

U support connector to connect US 5 supports.

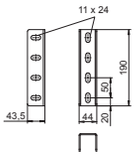
Including appropriate fastening material.

VA 2B

U support connector VUS 5

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 A4	1	64.800	6018509

U support connector to connect US 5 supports.
Including appropriate fastening material.

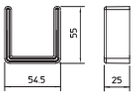


PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	6338462

Protective cap to cover the ends of US 5 supports.

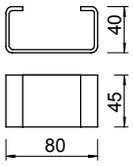


St FT

Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 FT	20	18.000	6416500

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 5 support and in the head plate, type KU 7 VQP.

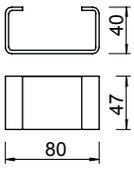


St FT

Spacer DSK 47

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 FT	20	19.000	6416504

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.
Spacer for use in head plate, type KU 5 V.

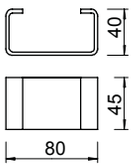


VA VA 2B

Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 A2	10	14.600	6416489
DSK 45 A4	10	14.600	6416462

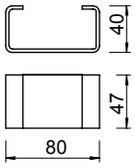
For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 5 supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Spacer DSK 47

VA VA 2B



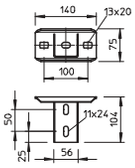
Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 A2	10	15.600	6416507
DSK 47 A4	10	15.600	6416511

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.

Head plate US 5

St FT



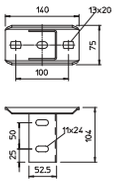
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 FT	1	61.900	6348904

When installing the head plate, please use the spacer, type DSK 45.

Head plate for installation in US 5 support.

Head plate US 5 NOK

St FT



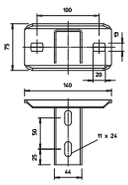
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK FT	1	75.000	6348939

Head plate with U support mounting rotated 90°.

When installing the head plate, please use the spacer, type DSK 45.

Head plate US 5 NOK

VA 2B



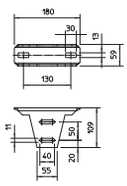
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK A2	1	61.000	6348947

When installing the head plate, please use the spacer, type DSK 45.

Head plate with U support mounting rotated 90°.

KU 5 head plate, variable

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 V FT	1	82.000	6348920

The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.

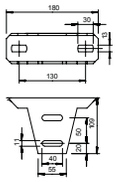
Variable head plate for installation on US 5 support.

VA 2B

KU 5 head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 V A2	1	81.000	6348925

The spacer, type DSK 47, is used to install the head plate.
Variable head plate for installation on US 5 support.

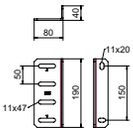


St FT

Fastening bracket for US 3/US 5 support

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 3/5 FT	5	71.100	6019534

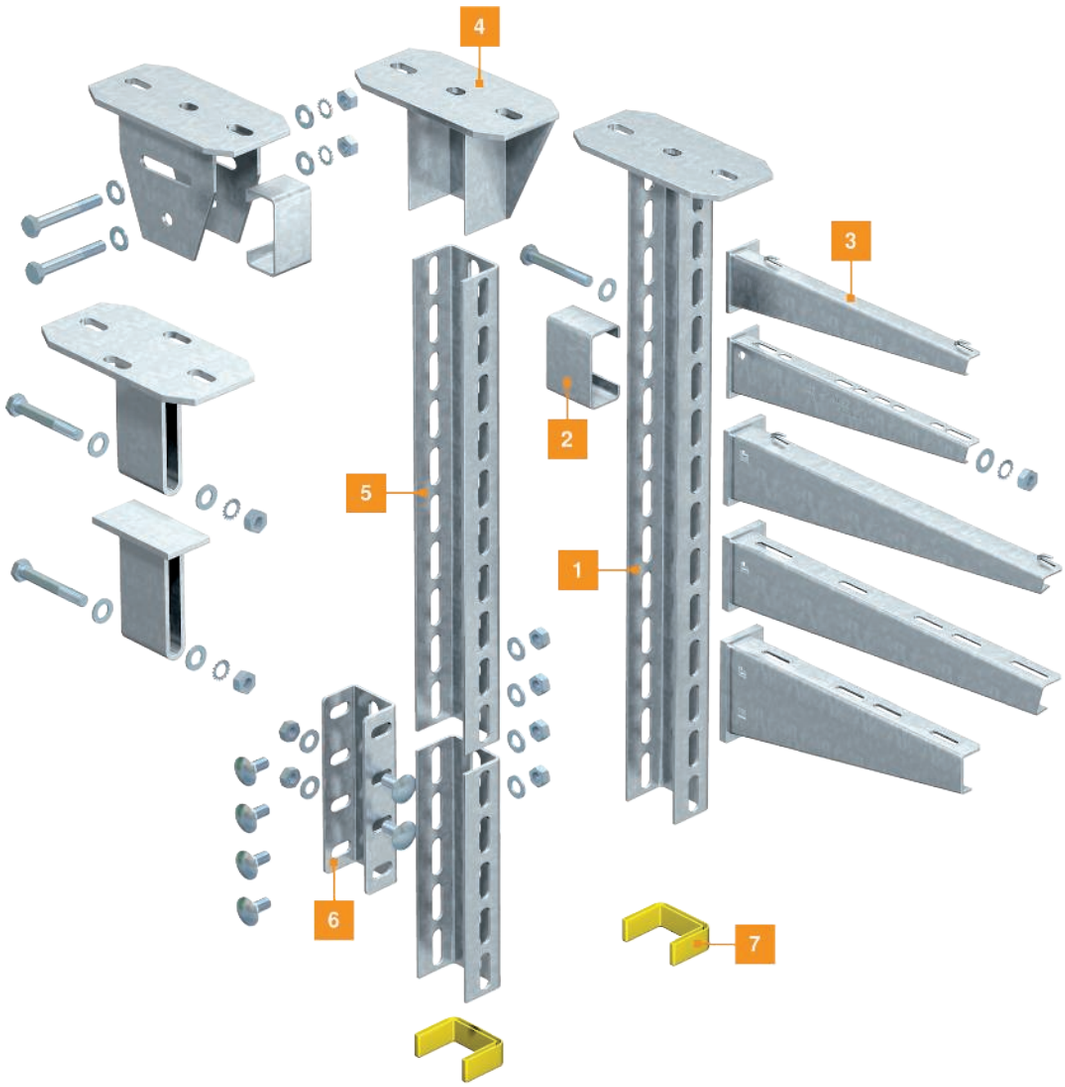
Suitable for U support, type US 3 and US 5.
Fastening bracket for the creation of individual support structures with U supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 7 U support system

Installation principle



1	US 7 hanging support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 7 support
6	U support connector
7	End cap

St FT

US 7 support

Type	Length mm	Material thickness mm	Tensile load kN		Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 20 FT	200	4	11		1	177.000	**6339018**
US 7 K 30 FT	300	4	11		1	218.000	**6339034**
US 7 K 40 FT	400	4	11		1	261.000	**6339050**
US 7 K 50 FT	500	4	11		1	302.000	**6339077**
US 7 K 60 FT	600	4	11		1	344.000	**6339093**
US 7 K 70 FT	700	4	11		1	387.000	**6339115**
US 7 K 80 FT	800	4	11		1	418.000	**6339131**
US 7 K 90 FT	900	4	11		1	470.000	**6339166**
US 7 K 100 FT	1000	4	11		1	512.000	**6339182**
US 7 K 110 FT	1100	4	11		1	550.000	**6339190**
US 7 K 120 FT	1200	4	11		1	591.000	**6339204**
US 7 K 130 FT	1300	4	11		1	636.000	**6339212**
US 7 K 140 FT	1400	4	11		1	675.000	**6339220**
US 7 K 150 FT	1500	4	11		1	718.000	**6339239**
US 7 K 160 FT	1600	4	11		1	760.000	**6339247**
US 7 K 170 FT	1700	4	11		1	802.000	**6339255**
US 7 K 180 FT	1800	4	11		1	843.000	**6339263**
US 7 K 190 FT	1900	4	11		1	884.000	**6339271**
US 7 K 200 FT	2000	4	11		1	879.722	**6339298**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

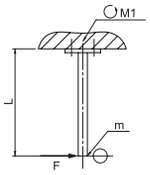
Suspended support (U profile) of dimensions 70 x 50 mm with welded head plate.

Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

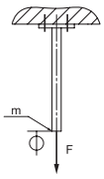
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

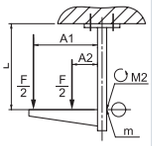
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

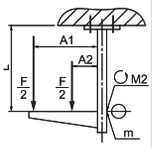
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31 FT	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm

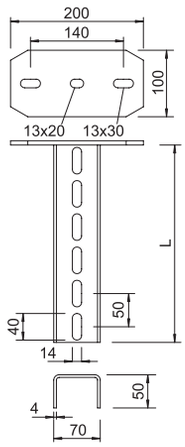


Testing of the bending torque on the support with bracket with spacer

Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81 FT	AW 55 81 FT	AW 55 81 FT
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3

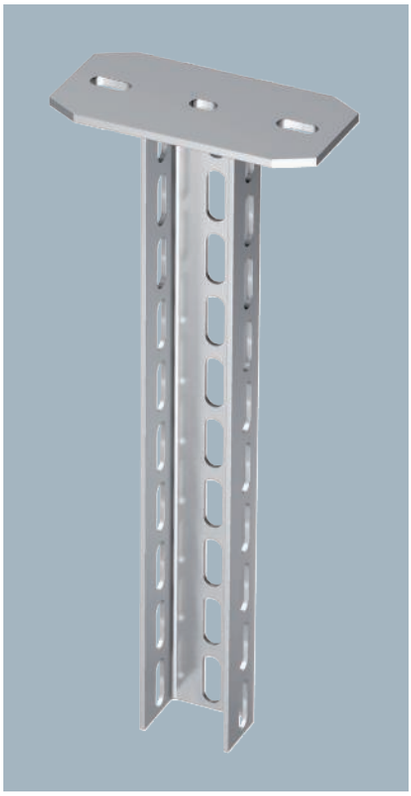




Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

VA 2B

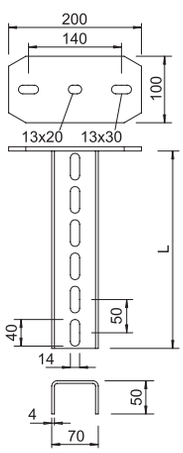
US 7 support



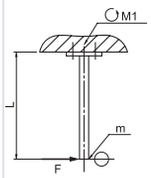
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 20 A2	200	4	11	1	173.000	**6338607**
US 7 K 30 A2	300	4	11	1	213.000	**6338615**
US 7 K 40 A2	400	4	11	1	256.000	**6338623**
US 7 K 50 A2	500	4	11	1	296.000	**6338631**
US 7 K 60 A2	600	4	11	1	337.000	**6338658**
US 7 K 70 A2	700	4	11	1	377.000	**6338666**
US 7 K 80 A2	800	4	11	1	410.000	**6338674**
US 7 K 90 A2	900	4	11	1	459.000	**6338682**
US 7 K 100 A2	1000	4	11	1	491.000	**6338690**
US 7 K 110 A2	1100	4	11	1	531.000	**6338704**
US 7 K 120 A2	1200	4	11	1	571.000	**6338712**
US 7 K 140 A2	1400	4	11	1	650.000	**6338739**
US 7 K 150 A2	1500	4	11	1	690.000	**6338747**
US 7 K 200 A2	2000	4	11	1	889.000	**6338801**

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) with welded head plate.



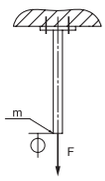
Load



Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

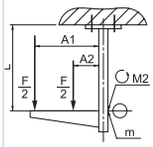
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

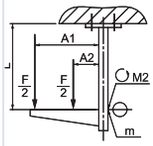
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm



Testing of the bending torque on the support with bracket with spacer

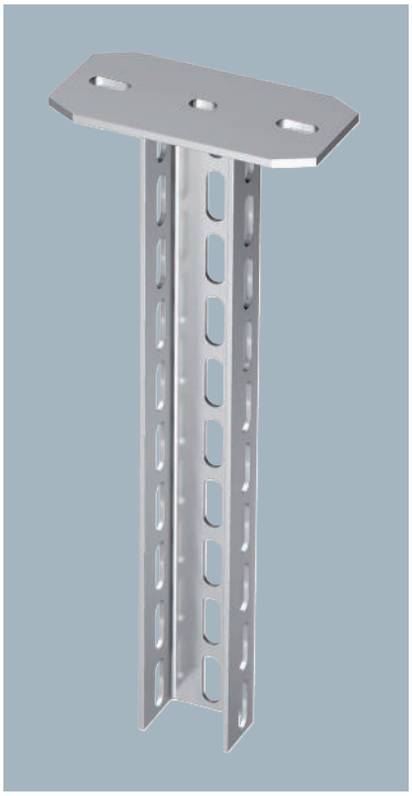
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3

VA 2B

US 7 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 7 K 100 A4	1000	4	11	1	500.000	**6338872**
US 7 K 200 A4	2000	4	11	1	905.000	**6338881**

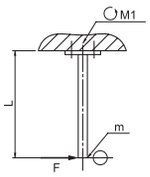


Load

Testing of the bending torque on the ceiling plate

Item on test	US 7 K 80
Deformation measuring point m	
Length L	800 mm
Force F	2.250 kN
Bending torque M1 (SWL)	1,800 Nm

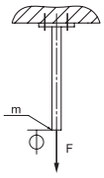
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

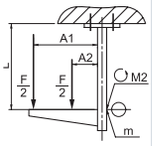
Item on test	US 7 K 80
Deformation measuring point m	
Force F (SWL)	45 kN

According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

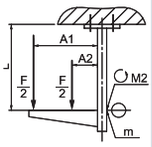
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 30 31	AW 30 31	AW 30 31
Deformation measuring point m			
A1 lever arm	310 mm	310 mm	310 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.169 kN	2.169 kN	1.985 kN
Bending torque M2 (SWL)	437 Nm	437 Nm	400 Nm



Testing of the bending torque on the support with bracket with spacer

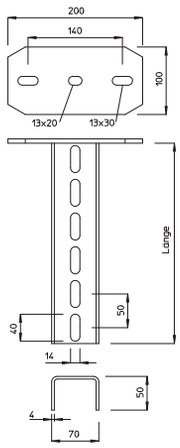
Item on test	US 7 K 80	US 7 K 120	US 7 K 170
	AW 55 81	AW 55 81	AW 55 81
Deformation measuring point m			
A1 lever arm	810 mm	810 mm	810 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	3.348 kN	2.659 kN	2.079 kN
Bending torque M2 (SWL)	1,530 Nm	1,530 Nm	1,530 Nm

According to IEC 61537, Chapter 10.8.2.3



For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

Suspended support (U profile) with welded head plate.



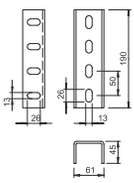
St FT

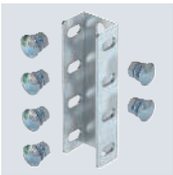
VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT	10	112.800	**6018378**

U support connector to connect US 7 supports.

Including appropriate fastening material.



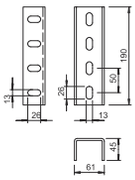


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US7 U suspended supports

VUS 7 U support connector

VA 2B

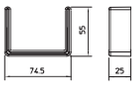


Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 A2	1	110.900	6018408

U support connector to connect US 7 supports.
Including appropriate fastening material.

End cap

PE

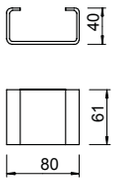


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	6338497

Protective cap to cover the ends of US 7 supports.

DSK 61 spacer

St FT

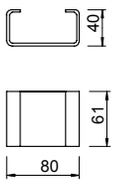


Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 FT	20	25.000	6416519

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 7 supports.

DSK 61 spacer

VA VA 2B

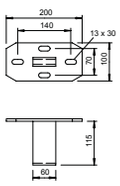


Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 A2	10	20.200	6416527
DSK 61 A4	10	20.200	6416533

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 7 supports.

Head plate, light-duty version

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 FT	1	144.600	6349102

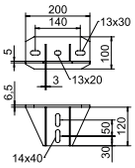
Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Light-duty head plate for mounting on US 7 support.

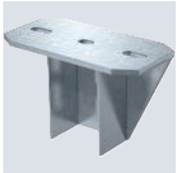
St FT

Head plate, heavy duty

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 NOX FT	1	184.000	6349056

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 support.



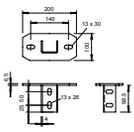


VA 2B

Head plate, heavy duty

Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 7 A2	1	140.000	6349277

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 supports.

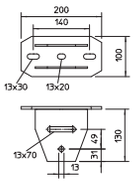


St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 VQP FT	1	181.600	6349153

Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.
Variable head plate for installation on US 7 support.

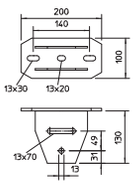


VA 2B

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 VQP A2	1	180.700	6349196

Please order fastening material (two hexagonal bolts SKS 12 x 100 and spacer DSK 45) separately.
Variable head plate for installation on US 7 support.

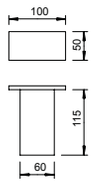


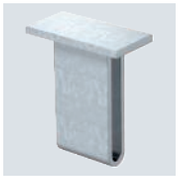
St FT

Head plate for welding

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 AOX FT	1	82.000	6349218

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Head plate for US 7 support for welding on steel girder.

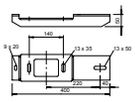




Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Adapter head plate, asymmetrical

St FT



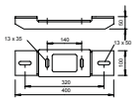
Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-ASY FT	1	280.000	6346820

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

Adapter head plate, symmetrical

St FT



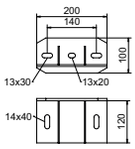
Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-SY FT	1	276.000	6346804

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

BW US 7 fastening bracket

St FT



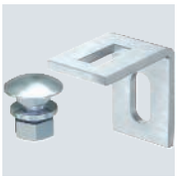
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW US 7 FT	5	249.000	6019532

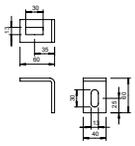
Suitable for U support, type US 7.

Fastening bracket for the creation of individual support structures with U supports.

Mounting angle BW 60

St FT





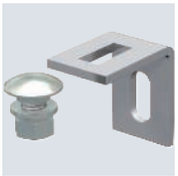
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 60 40 FT	10	23.000	6019560

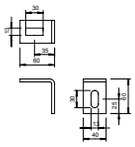
Including truss-head bolt M12 x 25.

Mounting angle of limb dimension 60 x 60 mm.

Mounting angle BW 60

VA VA 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 60 40 A2	10	16.000	6019587
BW 60 40 A4	10	16.000	6019583

Including truss-head bolt M12 x 25.

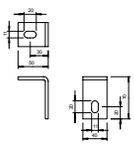
Mounting angle of limb dimension 60 x 60 mm.

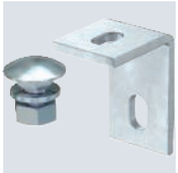
St FT

Mounting angle BW 70

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 70 40 FT	10	20.100	6019706

Including truss-head bolt M10 x 25.
Mounting angle of limb dimension 70 x 50 mm.



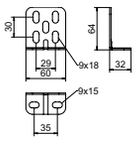


St FS

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FS	10	7.090	6019680

Light-duty fastening bracket of limb dimension 64 x 32 mm.

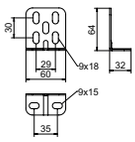


St FT

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FT	10	7.700	6019682

Light-duty fastening bracket of limb dimension 64 x 32 mm.

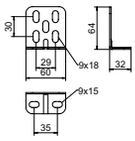


VA

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 A2	10	7.090	6019686

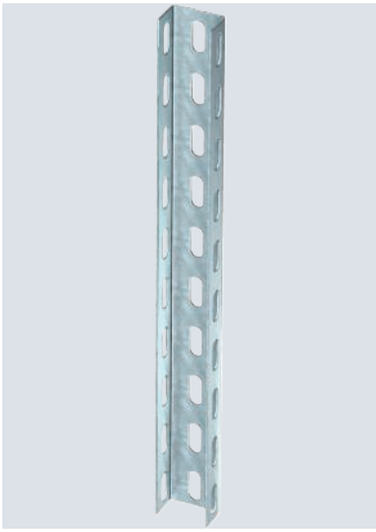
Light-duty fastening bracket of limb dimension 64 x 32 mm.

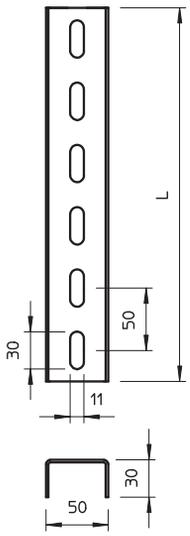


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 3 support

St FS FT





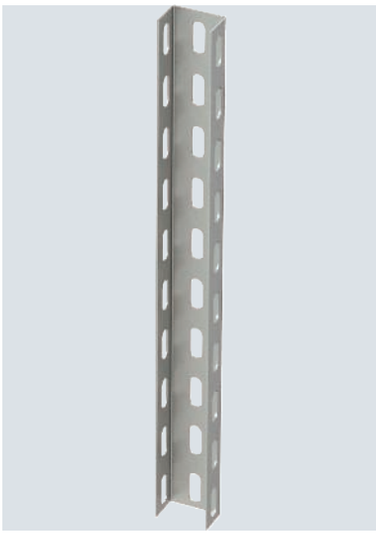
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 3 20 FS	200	2		1	27.000	**6342302**
US 3 30 FS	300	2		1	40.000	**6342304**
US 3 40 FS	400	2		1	53.000	**6342306**
US 3 50 FS	500	2		1	67.000	**6342308**
US 3 60 FS	600	2		1	80.000	**6342310**
US 3 70 FS	700	2		1	93.000	**6342312**
US 3 80 FS	800	2		1	107.000	**6342314**
US 3 100 FS	1000	2		1	133.000	**6342318**
US 3 150 FS	1500	2		1	200.000	**6342328**
US 3 200 FS	2000	2		1	266.000	**6342338**
US 3 300 FS	3000	2		1	399.000	**6342340**
US 3 600 FS	6000	2		1	798.000	**6342345**
US 3 90 FS	900	2		1	120.000	**6342316**
US 3 600 FT	6000	2		1	834.000	**6342450**

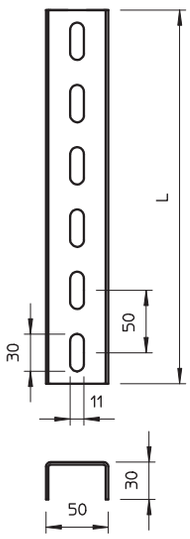
U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

US 3 support

VA VA 2B





Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
US 3 30 A2	300	2		1	42.200	**6342455**
US 3 50 A2	500	2		1	66.000	**6342457**
US 3 100 A2	1000	2		1	132.000	**6342460**
US 3 150 A2	1500	2		1	198.000	**6342463**
US 3 200 A2	2000	2		1	263.000	**6342466**
US 3 600 A2	6000	2		1	790.000	**6342468**
US 3 30 A4	300	2		1	40.000	**6342485**
US 3 50 A4	500	2		1	66.000	**6342488**
US 3 100 A4	1000	2		1	132.000	**6342491**
US 3 150 A4	1500	2		1	198.000	**6342494**
US 3 200 A4	2000	2		1	263.000	**6342497**

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

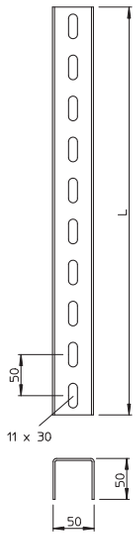
St FT

US 5 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 FT	200	2.5		1	51.000	**6340881**
US 5 30 FT	300	2.5		1	79.000	**6340903**
US 5 40 FT	400	2.5		1	106.000	**6340911**
US 5 50 FT	500	2.5		1	133.000	**6340938**
US 5 60 FT	600	2.5		1	160.000	**6340946**
US 5 70 FT	700	2.5		1	175.000	**6340950**
US 5 80 FT	800	2.5		1	200.000	**6340954**
US 5 90 FT	900	2.5		1	227.000	**6340958**
US 5 100 FT	1000	2.5		1	265.000	**6340962**
US 5 110 FT	1100	2.5		1	278.000	**6340964**
US 5 150 FT	1500	2.5		1	395.000	**6340966**
US 5 200 FT	2000	2.5		1	506.000	**6340970**
US 5 300 FT	3000	2.5		1	795.000	**6340989**
US 5 600 FT	6000	2.5		1	1,578.000	**6340997**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.



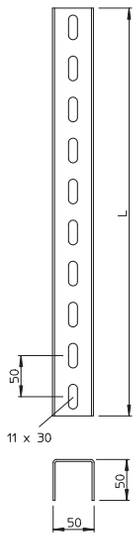
VA VA 2B

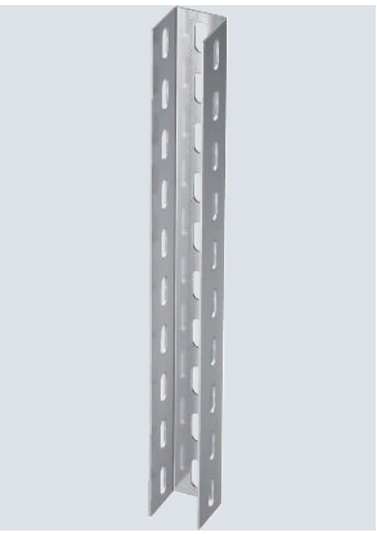
US 5 support

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 A2	200	2.5		1	48.000	**6341101**
US 5 30 A2	300	2.5		1	72.000	**6341105**
US 5 40 A2	400	2.5		1	97.000	**6341109**
US 5 50 A2	500	2.5		1	121.000	**6341113**
US 5 70 A2	700	2.5		1	169.000	**6341121**
US 5 80 A2	800	2.5		1	193.000	**6341125**
US 5 90 A2	900	2.5		1	217.000	**6341129**
US 5 100 A2	1000	2.5		1	242.000	**6341133**
US 5 110 A2	1100	2.5		1	266.000	**6341137**
US 5 120 A2	1200	2.5		1	290.000	**6341141**
US 5 300 A2	3000	2.5		1	737.000	**6341152**
US 5 30 A4	300	2.5		1	73.000	**6341053**
US 5 40 A4	400	2.5		1	97.000	**6341055**
US 5 50 A4	500	2.5		1	121.000	**6341057**
US 5 60 A4	600	2.5		1	145.000	**6341059**
US 5 80 A4	800	2.5		1	193.000	**6341063**
US 5 90 A4	900	2.5		1	217.000	**6341065**
US 5 300 A4	3000	2.5		1	737.000	**6341073**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

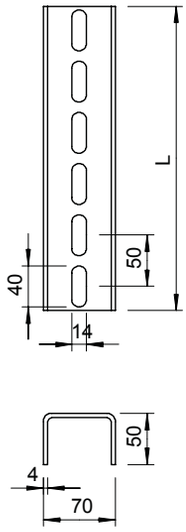




Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

US 7 support

St FT



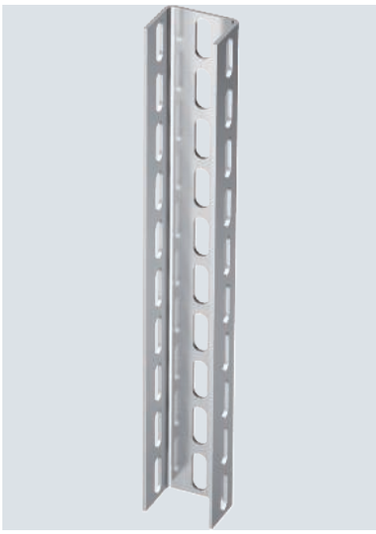
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 FT	200	4		1	81.000	**6340016**
US 7 30 FT	300	4		1	121.000	**6340032**
US 7 40 FT	400	4		1	160.700	**6340059**
US 7 50 FT	500	4		1	200.900	**6340075**
US 7 60 FT	600	4		1	241.100	**6340091**
US 7 70 FT	700	4		1	281.300	**6340113**
US 7 80 FT	800	4		1	323.000	**6340148**
US 7 90 FT	900	4		1	361.700	**6340164**
US 7 100 FT	1000	4		1	416.000	**6340180**
US 7 110 FT	1100	4		1	457.000	**6340199**
US 7 120 FT	1200	4		1	484.000	**6340202**
US 7 130 FT	1300	4		1	540.000	**6340210**
US 7 140 FT	1400	4		1	580.000	**6340229**
US 7 150 FT	1500	4		1	620.000	**6340237**
US 7 160 FT	1600	4		1	660.000	**6340245**
US 7 170 FT	1700	4		1	686.000	**6340253**
US 7 180 FT	1800	4		1	750.000	**6340261**
US 7 190 FT	1900	4		1	790.000	**6340288**
US 7 200 FT	2000	4		1	803.700	**6340296**
US 7 300 FT	3000	4		1	1,250.000	**6340377**
US 7 400 FT	4000	4		1	1,660.000	**6340393**
US 7 600 FT	6000	4		1	2,490.000	**6340318**

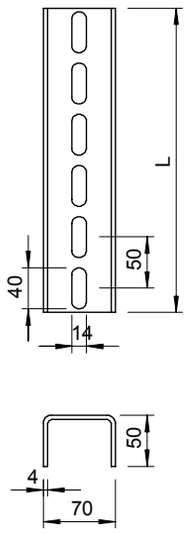
U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

US 7 support

VA VA 2B





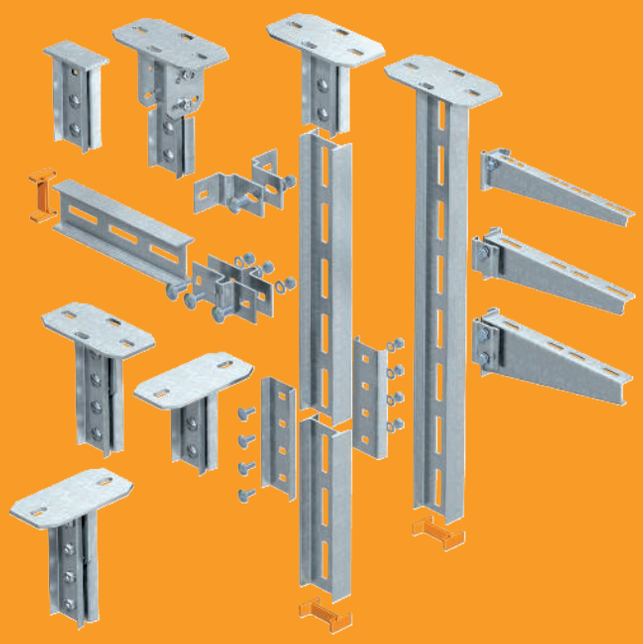
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 50 A2	500	4	1	196.100	**6341764**
US 7 100 A2	1000	4	1	392.100	**6341810**
US 7 200 A2	2000	4	1	784.200	**6341950**
US 7 300 A2	3000	4	1	1,176.300	**6341969**
US 7 600 A2	6000	4	1	2,433.000	**6341993**
US 7 600 A4	6000	4	1	2,433.000	**6341995**

U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

I support family

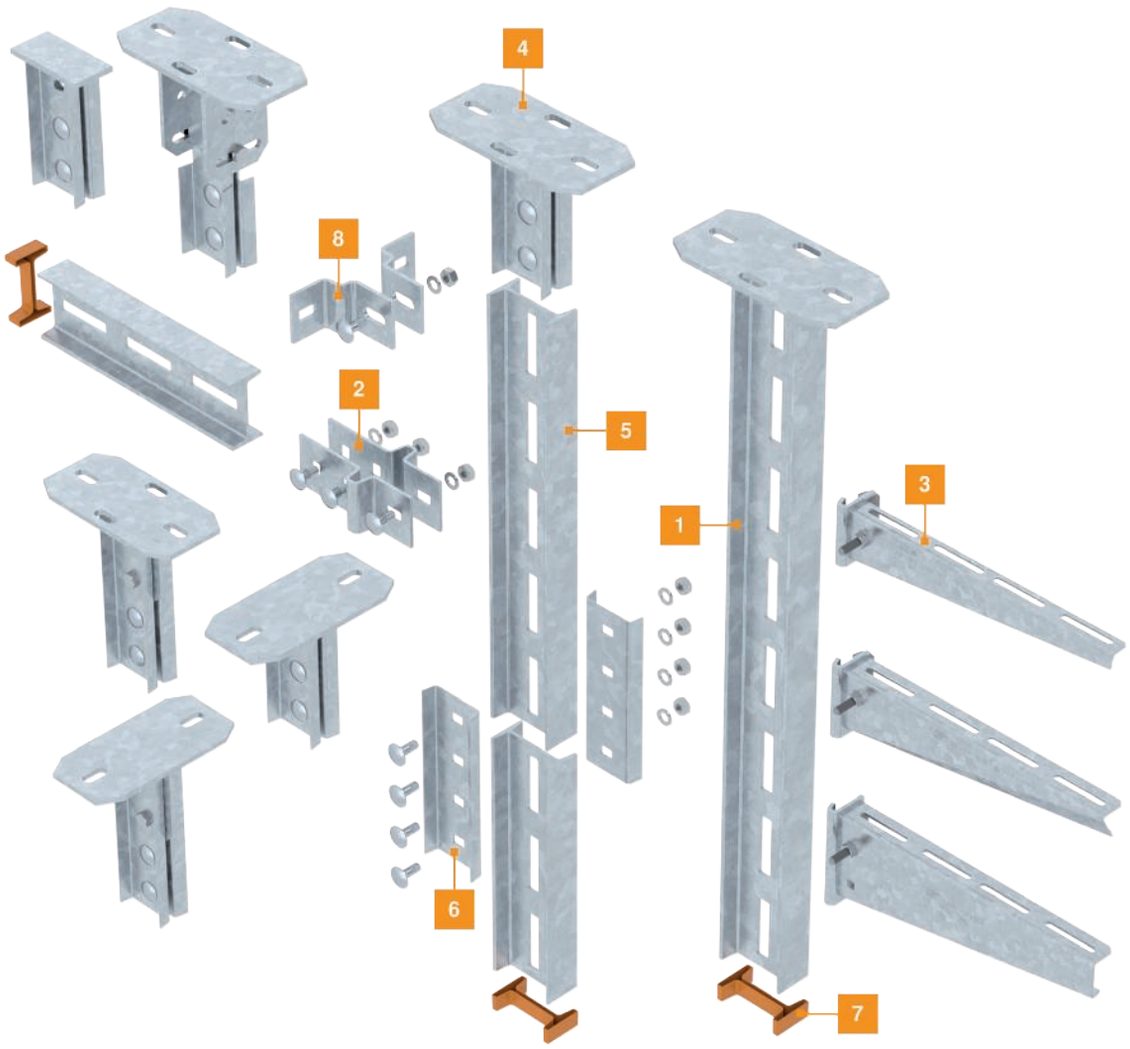
The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set-ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

I support and bracket systems

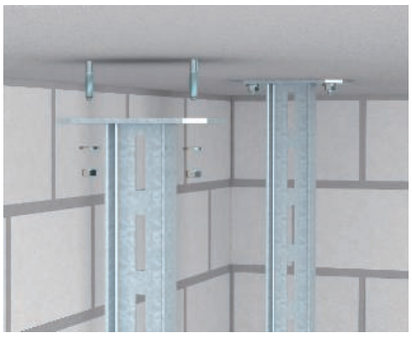
Installation principle



1	Luminaire support tray
2	Luminaire support rail
3	90° bend
4	Cover with turn buckle
5	Edge protection ring
6	Suspension bracket
7	Suspension chain
8	Centre suspension
9	Threaded rod
10	Trapezoidal fastening

Mounting aid

I supports and brackets



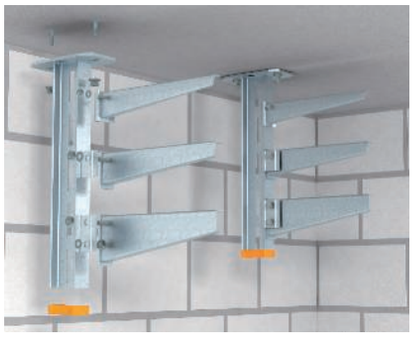
Application on the ceiling
Standard mounting of suspended supports to concrete ceilings using bolt ties.

Head plate mounting
Fastening of the standard head plate, KI 8, for I suspended supports to concrete ceilings using bolt ties.

Head plate, variable (rotated through 90°)
Mounting of the variable head plate, type KI 8 VLK, rotated through 90°, to sloping concrete ceilings using bolt ties.

Variable head plate
Mounting of the variable head plate, type KI 8 VQP, to sloping concrete ceilings using bolt ties.

I support connection
Installation of the I support connector VIS 8 to connect IS 8 supports.



Bracket mounting
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.

Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.

Adapter head plate, symmetrical
Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.

Wall mounting, I support
Mounting of an I support on the wall using fastening brackets, type BW 80/55, and bolt ties to accept multiple support brackets, type AS.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Special structure
Example of installing of a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.

Application on steel girder
Clamp fastening of suspended supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.

Direct girder clamping
Direct girder clamping of an I suspended support with heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.

Steel clamping with C profile, route in longitudindal direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.

Steel clamping with C profile, route in transverse direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.

Head plate, variable (transverse)
Mounting of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type MS 5030, and clamping angles, type KWH.

St FT

IS 8 support

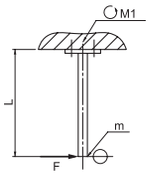
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 K 20 FT	200	4	12	1	205.900	**6361021**
IS 8 K 30 FT	300	4	12	1	263.900	**6361056**
IS 8 K 40 FT	400	4	12	1	321.900	**6361072**
IS 8 K 50 FT	500	4	12	1	379.900	**6361099**
IS 8 K 60 FT	600	4	12	1	437.900	**6361110**
IS 8 K 70 FT	700	4	12	1	495.900	**6361137**
IS 8 K 80 FT	800	4	12	1	553.900	**6361153**
IS 8 K 90 FT	900	4	12	1	611.900	**6361188**
IS 8 K 100 FT	1000	4	12	1	669.800	**6361218**
IS 8 K 110 FT	1100	4	12	1	727.800	**6361234**
IS 8 K 120 FT	1200	4	12	1	785.800	**6361250**
IS 8 K 130 FT	1300	4	12	1	843.800	**6361277**
IS 8 K 140 FT	1400	4	12	1	901.800	**6361293**
IS 8 K 150 FT	1500	4	12	1	959.800	**6361315**
IS 8 K 160 FT	1600	4	12	1	1,017.800	**6361331**
IS 8 K 170 FT	1700	4	12	1	1,075.800	**6361366**
IS 8 K 180 FT	1800	4	12	1	1,133.800	**6361382**
IS 8 K 200 FT	2000	4	12	1	1,249.700	**6361420**

Load

Testing of the bending torque on the ceiling plate

Item on test	IS 8 K 80
Deformation measuring point m	
Length L	800 mm
Force F	3.000 kN
Bending torque M1 (SWL)	2,400 Nm

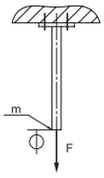
According to IEC 61537, Chapter 10.8.2.1



Testing of the tensile strength

Item on test	IS 8 K 80
Deformation measuring point m	
Force F (SWL)	50 kN

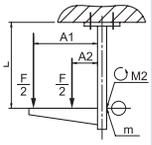
According to IEC 61537, Chapter 10.8.2.2



Testing of the bending torque on the support with bracket

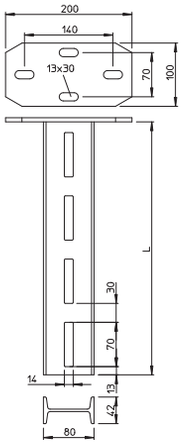
Item on test	IS 8 K 80	IS 8 K 140	IS 8 K 180
	AS 55 101	AS 55 101	AS 55 101
Deformation measuring point m			
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm

According to IEC 61537, Chapter 10.8.2.3



I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

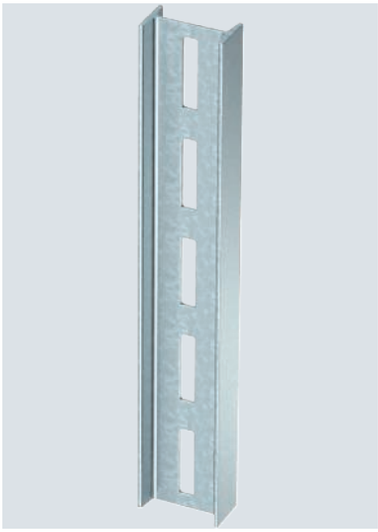


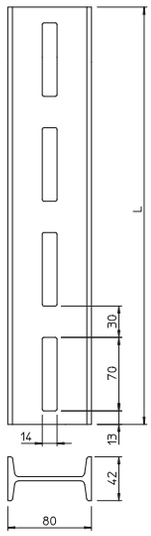
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

I supports

IS 8 support

St FT





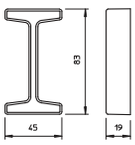
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 30 FT	300	4	1	171.000	6337031
IS 8 40 FT	400	4	1	229.000	6337058
IS 8 50 FT	500	4	1	286.000	6337066
IS 8 60 FT	600	4	1	344.000	6337074
IS 8 70 FT	700	4	1	402.000	6337082
IS 8 80 FT	800	4	1	459.000	6337090
IS 8 90 FT	900	4	1	517.000	6337104
IS 8 100 FT	1000	4	1	575.000	6337112
IS 8 110 FT	1100	4	1	632.000	6337120
IS 8 120 FT	1200	4	1	690.000	6337139
IS 8 130 FT	1300	4	1	748.000	6337147
IS 8 140 FT	1400	4	1	806.000	6337155
IS 8 150 FT	1500	4	1	863.000	6337163
IS 8 160 FT	1600	4	1	921.000	6337171
IS 8 170 FT	1700	4	1	979.000	6337198
IS 8 180 FT	1800	4	1	1,036.000	6337201
IS 8 190 FT	1900	4	1	1,094.000	6337228
IS 8 200 FT	2000	4	1	1,152.000	6337236
IS 8 300 FT	3000	4	1	1,730.000	6337244
IS 8 600 FT	6000	4	1	3,460.000	6337252

I support in fixed lengths. Dimensions 80 x 42 mm.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

End cap

PE

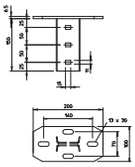


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange	20	0.705	6338519

End cap to cover the ends of IS 8 supports.

Head plate, longitudinal

St FT



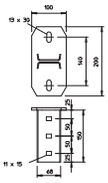
Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 FT	1	155.000	6347053

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.

Head plate, transverse

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 NOK FT	1	158.400	6347061

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.

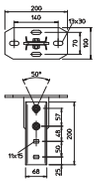
Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.

St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VQP FT	1	219.000	**6348106**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in straight direction, for installation on IS 8 support.

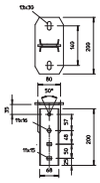


St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VLK FT	1	227.000	**6348157**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in straight direction, for installation on IS 8 support.

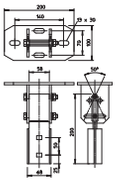


St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 VLP FT	1	275.000	**6347843**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Variable head plate, adjustable in transverse direction, for installation on IS 8 support.

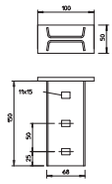


St FT

Head plate for welding

Type	Pack Piece	Weight kg/100 pc.	Item no.
KI 8 AOX FT	1	84.000	**6347088**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for welded mounting on IS 8 support.

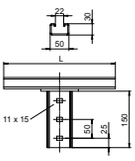


St FT

Head plate with welded CPS 5 rail

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
KI8 CPS5-1-300FT	300	1	166.000	**6347026**
KI8 CPS5-1-400FT	400	1	195.000	**6347030**
KI8 CPS5-1-500FT	500	1	224.000	**6347028**

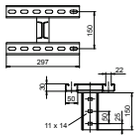
Including appropriate fastening material.
Head plate with a welded-on MS5030 profile rail for mounting to an IS 8 support.
The fastening to the T support is done using the appropriate chuck jaws. The rail route is in the longitudinal direction.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Head plate with 2 welded-on CPS 5 rails

St FT



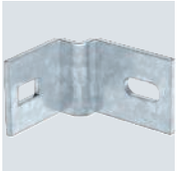
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
KI8 CPS5-2-300FT	300	1	281.000	6347036
KI8 CPS5-2-400FT	400	1	345.300	6347032
KI8 CPS5-2-500FT	500	1	397.000	6347038

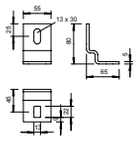
Including appropriate fastening material.

Head plate with two welded-on MS5030 profile rails for the mounting to the IS 8 support.
The fastening to the T support is done using the appropriate chuck jaws. The rail route is in the longitudinal direction.

Mounting angle BW 80

St FT





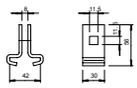
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT	10	32.900	6019528

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12x30.

Mounting angle for mounting IS 8 supports on the wall.

Support claw

St FT



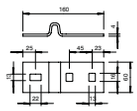
Type	Pack Piece	Weight kg/100 pc.	Item no.
TGK 30 42 FT	10	17.000	6018963

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

Support strap

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
AHIS 8 FT	10	89.900	6019064

Including appropriate fastening material.

Support strap for right-angled connection of I supports.

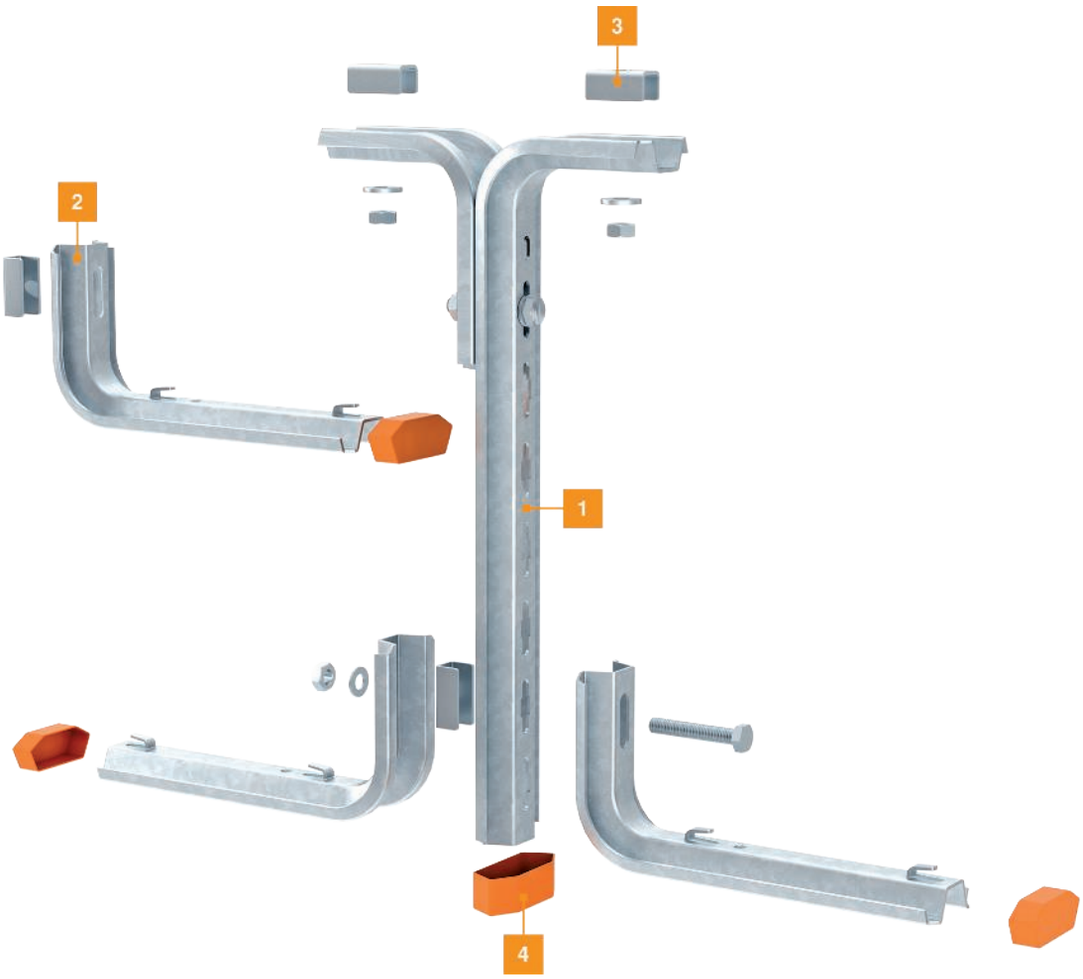
System description

TP supports and brackets

The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.

Installation principle

TP supports and brackets

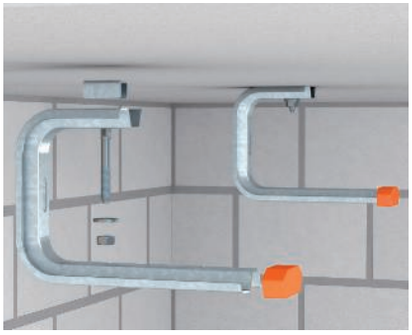


1	TP suspended support
2	TP support/wall and support brackets
3	Spacer
4	End cap

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

TP supports and brackets



Ceiling mounting of TP wall and ceiling bracket
Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.

Installation of TP support with single-sided bracket fixing
Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.

Complete mounting of a TP system
Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.

St FS

TP support

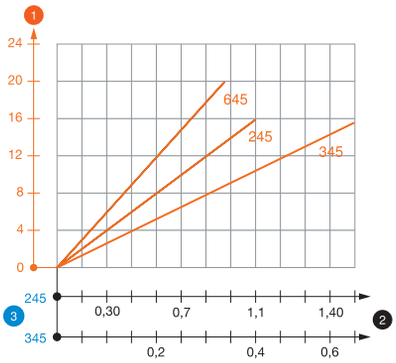
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 FS	445	1	73.000	**6364322**
TPS 545 FS	545	1	80.000	**6364349**
TPS 645 FS	645	1	99.000	**6364365**

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

Load

Load diagram, TP supports, type TPS



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

Characteristic anchor load values for TP support

Single-sided load

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ-U 8-30-41/95	1,50	1,00	0,65
BZ-U 10-30-50/110	1,50	1,50	0,65

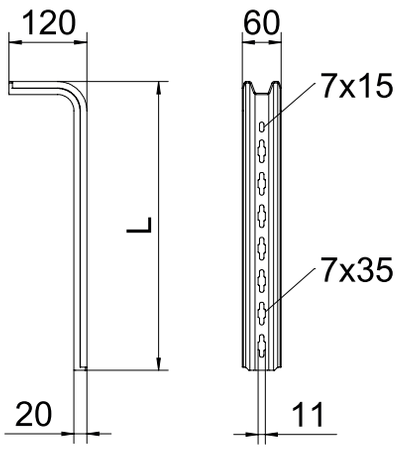
Double-sided load

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ-U 8-30-41/95	1,50	1,50	1,20
BZ-U 10-30-50/110	1,50	1,50	1,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Type	Dim. L mm
TPS 445 FS	445
TPS 545 FS	545
TPS 645 FS	645

Dimensions



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

TP support

St FT

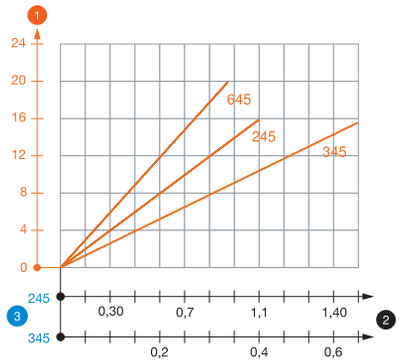
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 FT	445	1	75.000	**6364403**
TPS 545 FT	545	1	89.000	**6364500**
TPS 645 FT	645	1	103.000	**6364608**

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

Load

Load diagram, TP support, type TPS



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

Characteristic anchor load values for TP support

Single-sided load

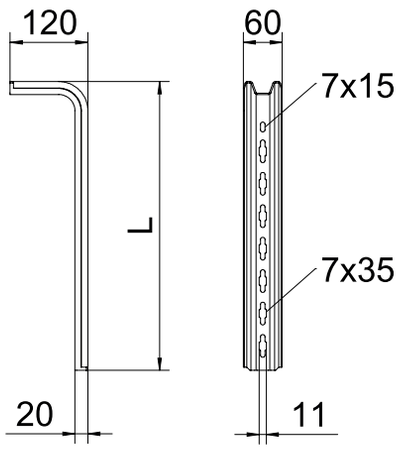
Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ-U 8-30-41/95	1,50	1,00	0,65
BZ-U 10-30-50/110	1,50	1,50	0,65

Double-sided load

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ-U 8-30-41/95	1,50	1,50	1,20
BZ-U 10-30-50/110	1,50	1,50	1,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

Dimensions



Type	Dim. L mm
TPS 445 FT	445
TPS 545 FT	545
TPS 645 FT	645

St FS

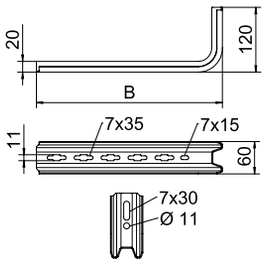
TPSA TP support/wall and support bracket

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

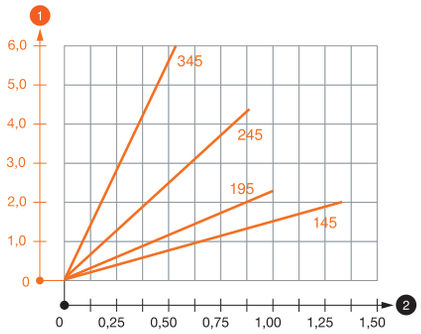
Type	for width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FS	100	1.5	1	32.300	**6364101**
TPSA 245 FS	200	0.9	1	46.000	**6364209**
TPSA 345 FS	300	0.55	1	60.000	**6364306**

Dimensions



Type	Dim. B mm
TPSA 145 FS	145
TPSA 245 FS	245
TPSA 345 FS	345

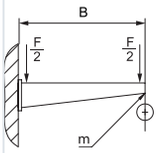
Load



Load diagram, bracket TPSA

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FS	1.5 kN	145 mm
TPSA 245 FS	0.9 kN	245 mm
TPSA 345 FS	0.55 kN	345 mm
TPSA 245 FS SP	0.9 kN	245 mm

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Wall fastening				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

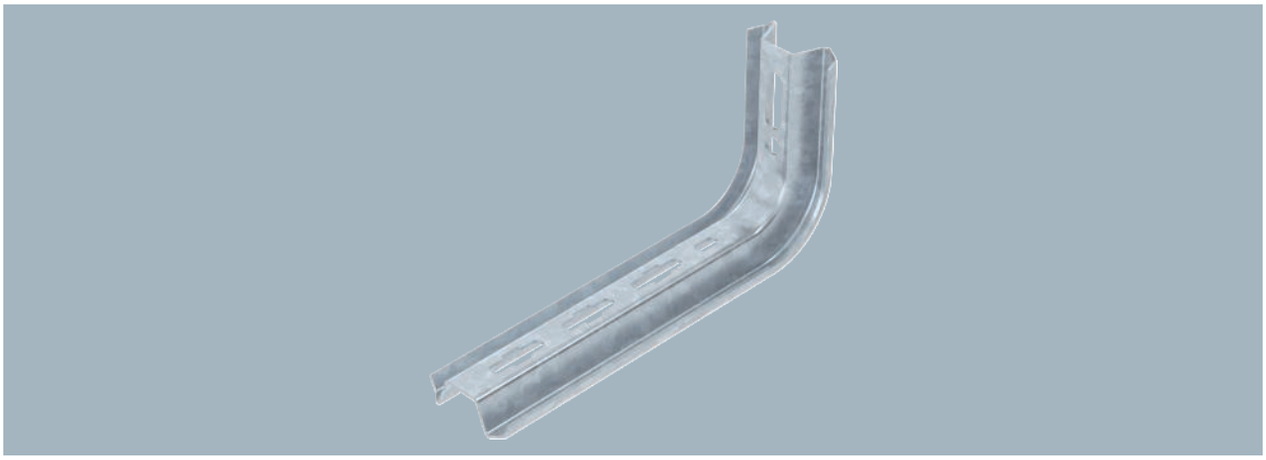
Wall fastening				
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1,00	1,30	0,70	2,40
BZ-U 10-30-50/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

TPSA TP support/wall and support bracket

St FT



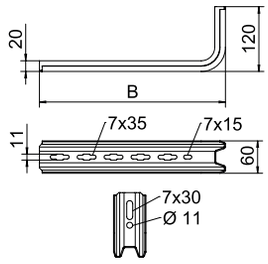
Type	for width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FT	100	1.5	1	33.000	**6364659**
TPSA 195 FT	150	1	1	40.000	**6364683**
TPSA 245 FT	200	0.9	1	47.000	**6364667**
TPSA 345 FT	300	0.55	1	62.000	**6364675**

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

Type	Dim. B mm
TPSA 145 FT	145
TPSA 195 FT	195
TPSA 245 FT	245
TPSA 345 FT	345

Dimensions

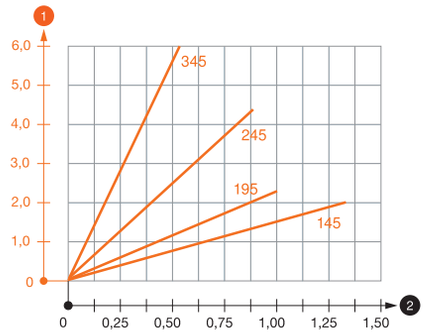


Load

1 Bending of the bracket tip at permitted bracket load

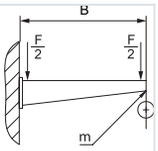
2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm



Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Wall fastening				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

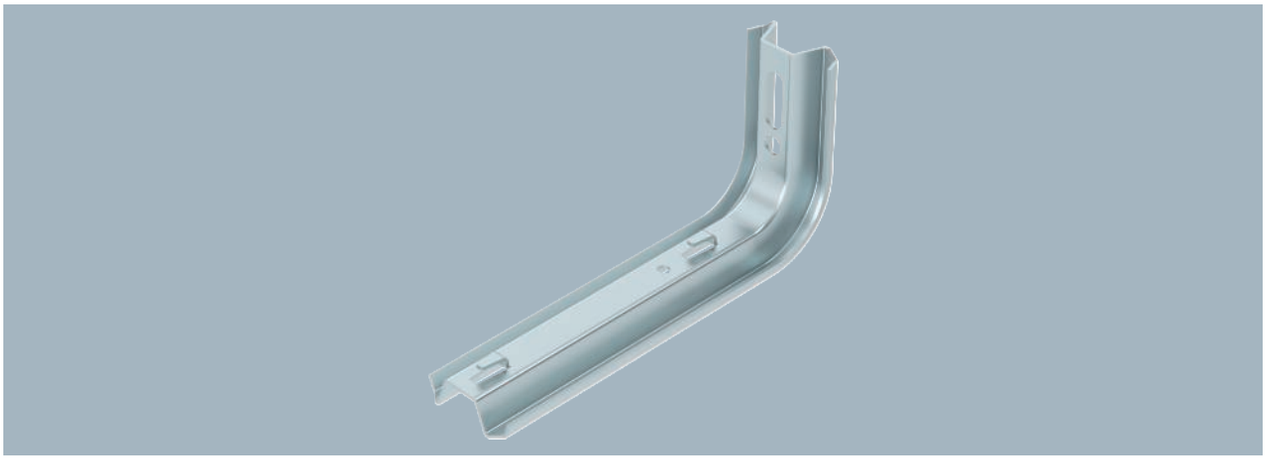
Characteristic anchor load values for TP bracket

Wall fastening				
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1,00	1,30	0,70	2,40
BZ-U 10-30-50/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

St FS

TPSAG TP support/wall and support bracket

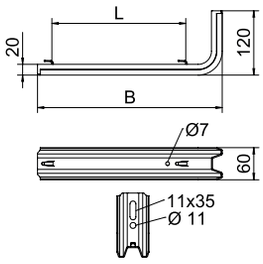


If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

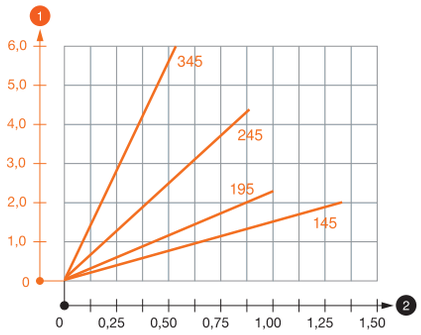
Type	for width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FS	100	1.5	1	33.000	**6366015**
TPSAG 195 FS	150	1	1	41.000	**6366023**
TPSAG 245 FS	200	0.9	1	48.000	**6366031**
TPSAG 345 FS	300	0.55	1	61.000	**6366066**

Dimensions



Type	Dim. B mm	Dim. L mm
TPSAG 145 FS	145	50
TPSAG 195 FS	195	100
TPSAG 245 FS	245	150
TPSAG 345 FS	345	250

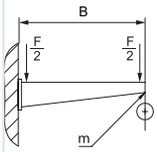
Load



Load diagram, bracket TPSAG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Wall fastening				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

Characteristic anchor load values for TP bracket

Wall fastening				
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1,00	1,30	0,70	2,40
BZ-U 10-30-50/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

TPSAG TP support/wall and support bracket

St FT

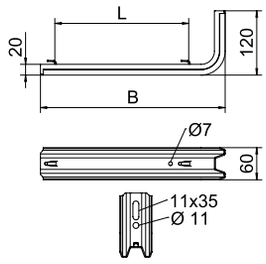
Type	for width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FT	100	1.5	1	33.000	**6366131**
TPSAG 195 FT	150	1	1	42.000	**6366135**
TPSAG 245 FT	200	0.9	1	49.000	**6366139**
TPSAG 345 FT	300	0.55	1	65.000	**6366143**

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs.

Type	Dim. B mm	Dim. L mm
TPSAG 145 FT	145	50
TPSAG 195 FT	195	100
TPSAG 245 FT	245	150
TPSAG 345 FT	345	250

Dimensions



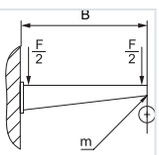
Load diagram, bracket TPSAG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSAG 145 FT	0.15 kN	145 mm
TPSAG 195 FT	1 kN	195 mm
TPSAG 245 FT	0.950 kN	245 mm
TPSAG 345 FT	0.55 kN	345 mm

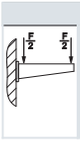


Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP brackets

Wall fastening				
	Max. load F [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1	1.3	0.7	2.4
BZ-U 10-30-50/110	1.5	1	0.9	0.55

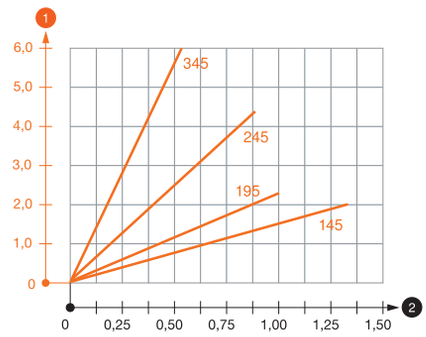
Characteristic anchor load values for TP bracket



Wall fastening				
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30-41/95	1,00	1,30	0,70	2,40
BZ-U 10-30-50/110	1,50	1,00	0,90	0,55

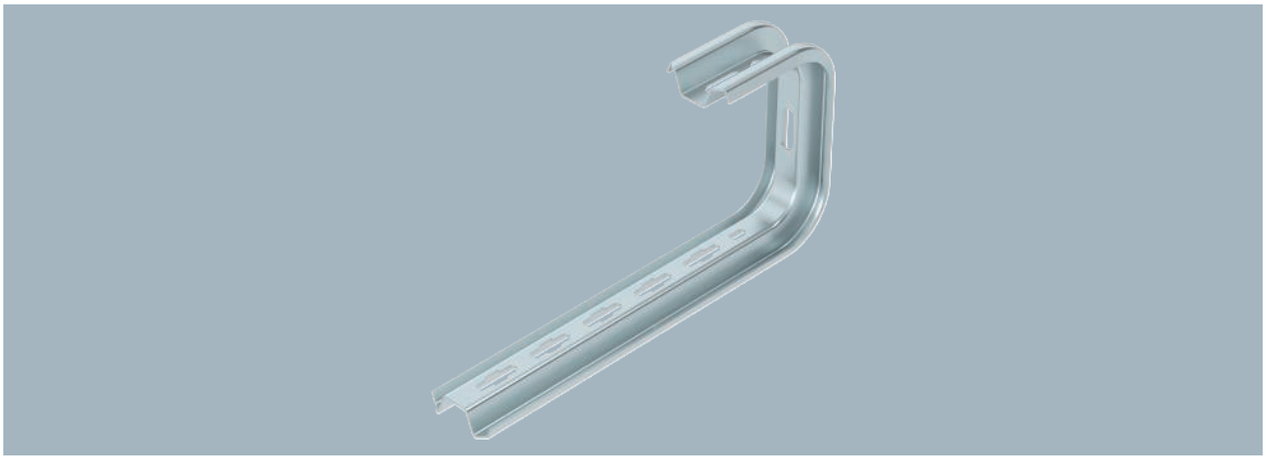
Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Load



St FS

TP wall and ceiling bracket

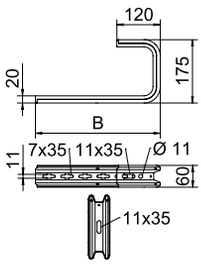


Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal use.

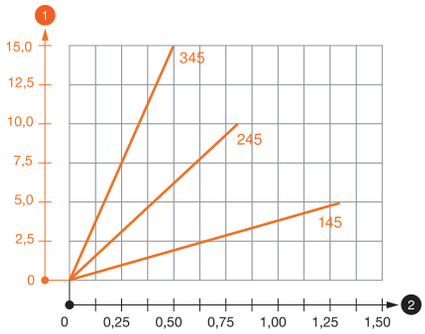
Type	for width mm	F in kN ceiling kN	F in kN wall kN		Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FS	100	1.3	1.4		1	48.000	**6363806**
TPD 245 FS	200	0.8	0.87		1	66.000	**6363814**
TPD 345 FS	300	0.5	0.55		1	78.000	**6363822**
TPD 445 FS	400	0.35	0.45		1	93.300	**6363826**
TPD 545 FS	500	0.25	0.35		1	107.000	**6363829**

Dimensions



Type	Dim. B mm
TPD 145 FS	145
TPD 245 FS	245
TPD 345 FS	345
TPD 445 FS	445
TPD 545 FS	545

Load



Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,00	0,70	2,40	0,40	0,30
BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening

Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,30	1,30	2,40	0,35	0,25
BZ-U 10-30-50/110	1,30	1,30	2,40	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

TP wall and ceiling bracket

St FT

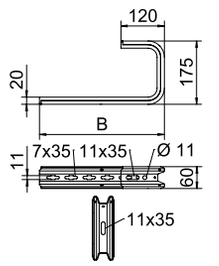
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FT	100	1.3	1.4	1	54.000	**6363861**
TPD 245 FT	200	0.8	0.87	1	69.000	**6363865**
TPD 345 FT	300	0.5	0.55	1	83.000	**6363869**

Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal structural fastening.

Type	Dim. B mm	Dim. H mm
TPD 145 FT	145	175
TPD 245 FT	245	175
TPD 345 FT	345	175

Dimensions



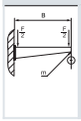
Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

Wall fastening



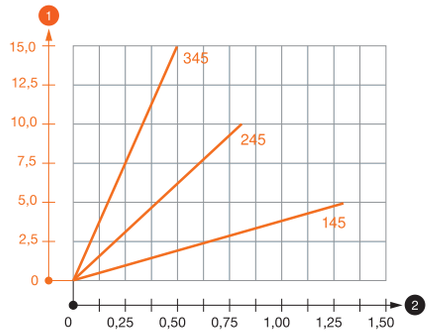
Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,00	0,70	2,40	0,40	0,30
BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening

Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,30	1,30	2,40	0,35	0,25
BZ-U 10-30-50/110	1,30	1,30	2,40	0,35	0,25

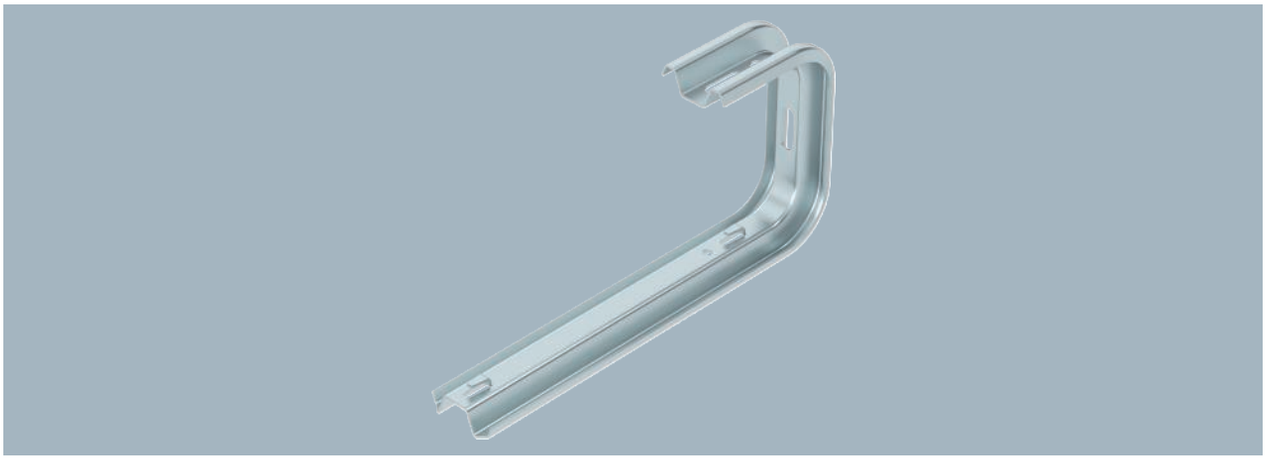
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Load



St FS

TP wall and ceiling bracket

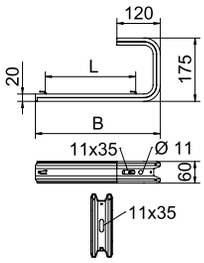


If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

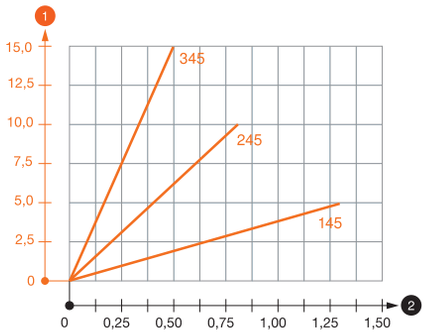
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FS	100	1.3	1.4	6	52.000	**6365906**
TPDG 195 FS	150	0.95	1.05	6	60.000	**6365914**
TPDG 245 FS	200	0.8	0.87	5	67.000	**6365922**
TPDG 345 FS	300	0.5	0.55	5	81.000	**6365949**

Dimensions



Type	Dim. B mm	Dim. L mm
TPDG 145 FS	145	50
TPDG 195 FS	195	100
TPDG 245 FS	245	150
TPDG 345 FS	345	250

Load



Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,00	0,70	2,40	0,40	0,30
BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening

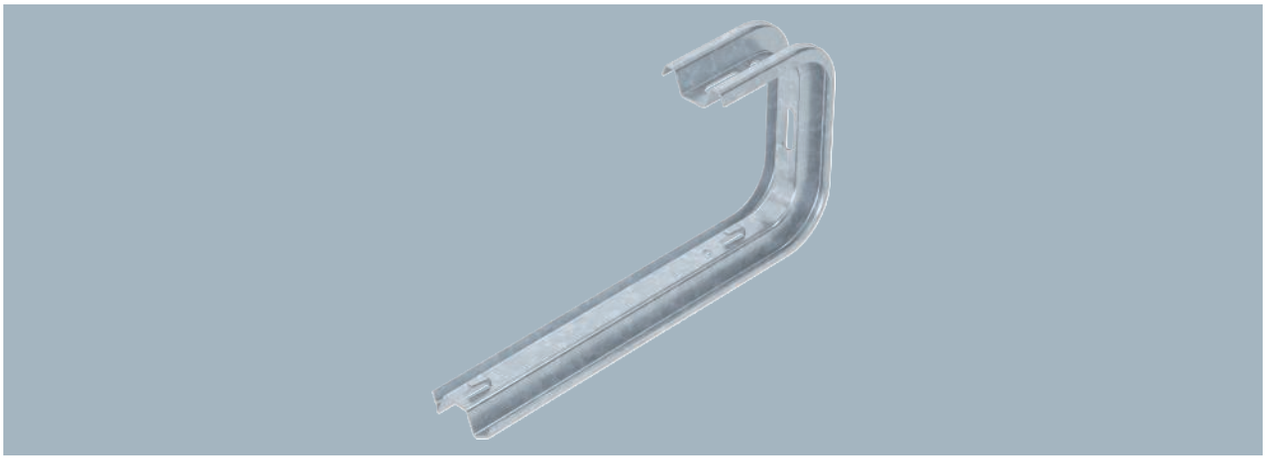
Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,30	0,80	0,50	0,35	0,25
BZ-U 10-30-50/110	1,30	0,80	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

TP wall and ceiling bracket

St FT



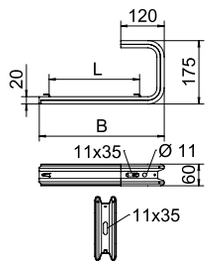
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FT	100	1.3	1.4	6	55.000	**6365977**
TPDG 245 FT	200	0.8	0.87	5	70.000	**6365981**
TPDG 345 FT	300	0.5	0.55	5	85.000	**6365985**

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPDG 145 FT	145	50
TPDG 245 FT	245	150
TPDG 345 FT	345	250

Dimensions



Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

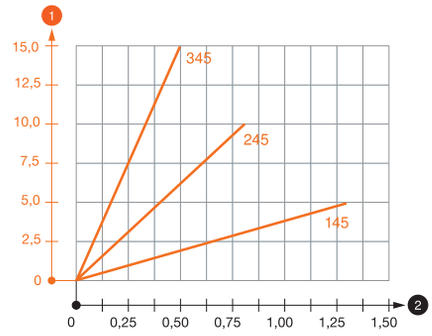
Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,00	0,70	2,40	0,40	0,30
BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening

Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,30	0,80	0,50	0,35	0,25
BZ-U 10-30-50/110	1,30	0,80	0,50	0,35	0,25

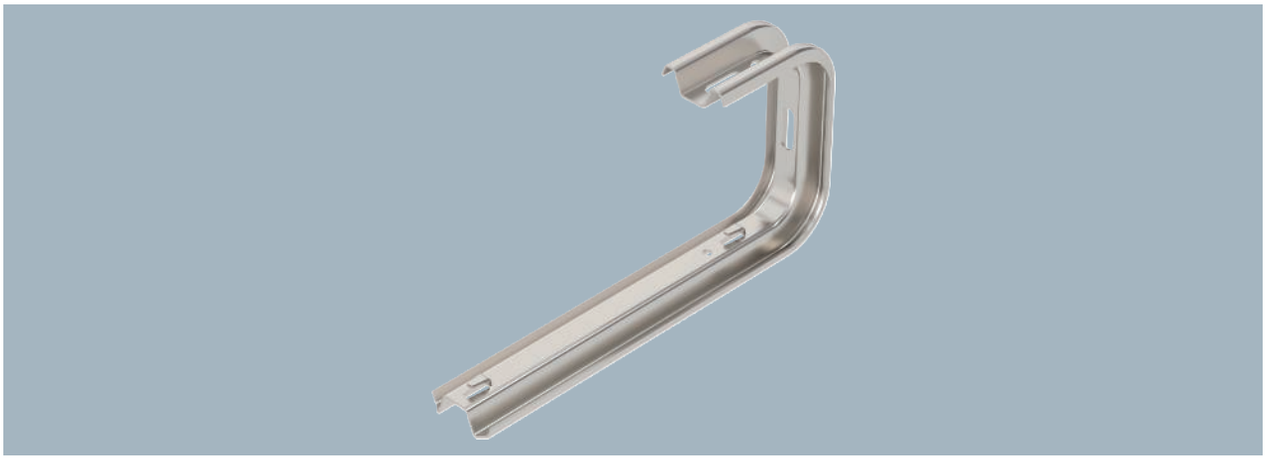
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

Load



VA 2B

TP wall and ceiling bracket

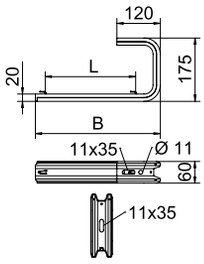


If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

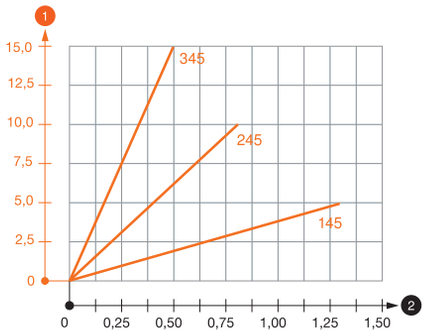
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 A2	100	1.3	1.4	6	52.000	**6365989**
TPDG 195 A2	150	0.95	1.05	6	60.000	**6365991**
TPDG 245 A2	200	0.8	0.87	5	67.000	**6365993**
TPDG 345 A2	300	0.5	0.55	5	81.000	**6365995**

Dimensions



Type	Dim. B mm	Dim. L mm
TPDG 145 A2	145	50
TPDG 195 A2	195	100
TPDG 245 A2	245	150
TPDG 345 A2	345	250

Load



Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ-U 8-30/95	1,00	0,70	2,40	0,40	0,30
BZ-U 10-30/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening

Anchor type	Max. load F [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30/95	1,30	0,80	0,50	0,35	0,25
BZ-U 10-30/110	1,30	0,80	0,50	0,35	0,25

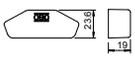
Max. total load F = cable weight + cable tray + ceiling clamp. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
TPS KS OR	Pastel orange	10	0.700	**6364625**

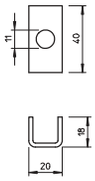
End cap to cover ends of TP supports.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Spacer

St FS FT



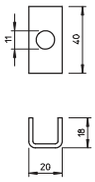
Type	Pack Piece	Weight kg/100 pc.	Item no.
DS 4 FS	20	3.390	6416551
DS 4 FT	20	3.800	6416586

For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.

Spacer

VA 2B



Type	Pack Piece	Weight kg/100 pc.	Item no.
DS 4 A2	10	3.700	6416594

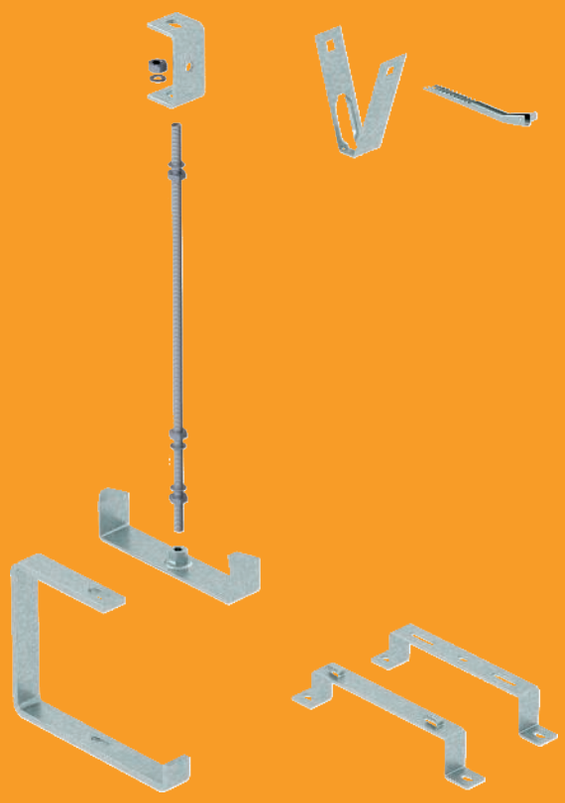
For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

Spacer for use in profiles, type TP.

Universal systems

Universal systems for cable support structures are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or a floor stand-off: In the universal systems, you can find functional fastenings with matching system accessories for any application.

- Simple suspension
- Centre suspension
- Suitable for mesh cable trays and cable trays
- Floor mounting
- Matching system accessories

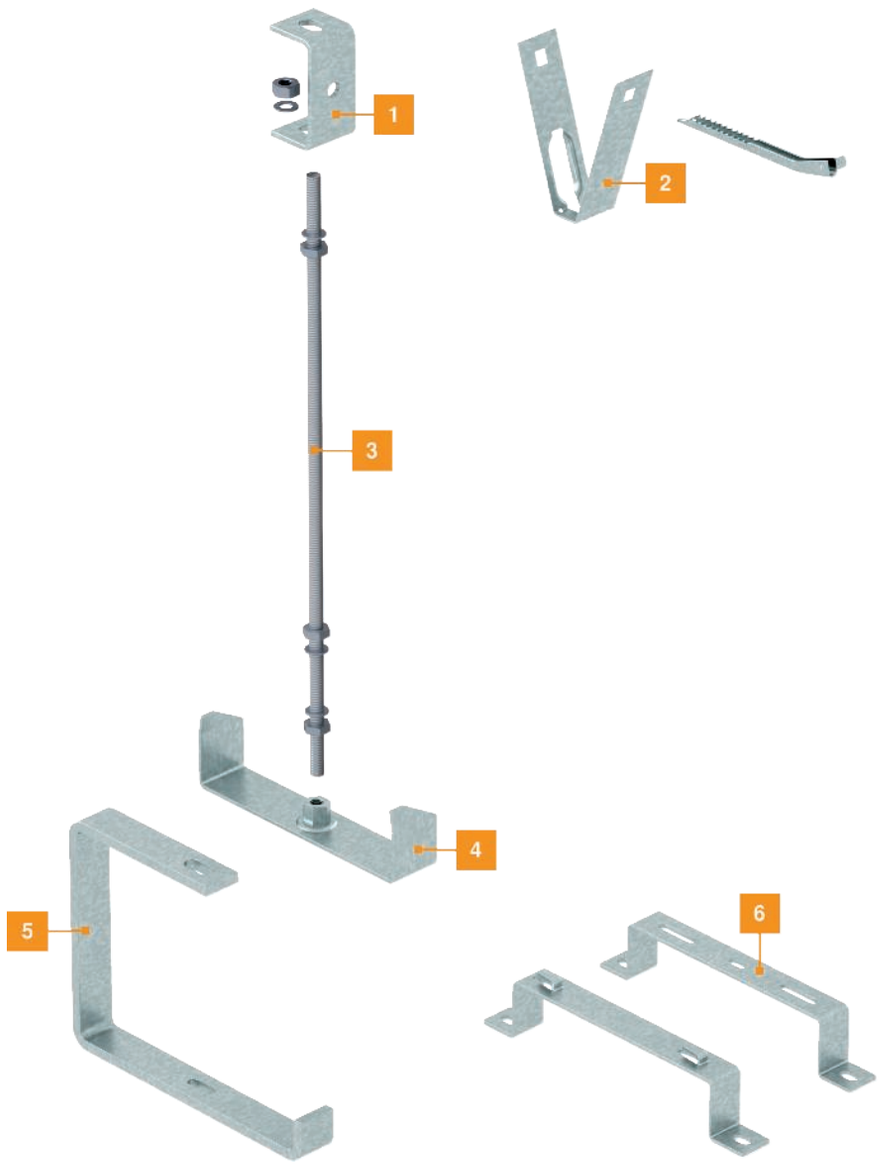


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

System description

The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.
These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.

Installation principle



1	Ceiling bracket
2	Trapezoidal fastening
3	Threaded rod
4	Centre suspension
5	Suspension clamp
6	Stand-off bracket

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

Installation of centre suspension
Installation of the centre suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.

Universal mounting on the ceiling
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.

Centre suspension with threaded rod
Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.

Installation of centre suspension
Insertion and alignment of the centre suspension, MAH, in the cable tray.

Threaded rod suspension RKSM > 400 mm
The threaded rod suspension of RKSM cable trays > 400 mm can take place using two threaded rods.

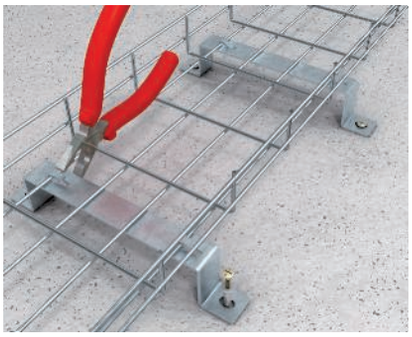
Cable ladder centre suspension with threaded rod
Installation of a cable ladder with centre suspension MAHU and a threaded rod.

Trapezoidal plate application
Simple, quick fastening of a cable support system to trapezoidal metal roofs.

Installation of trapeze suspension
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and centre suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.

Threaded rod suspension with ceiling bracket
Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.

Floor fastening at a distance
Mounting of a cable tray at a distance using the DBL stand-off bracket. Maximum cable tray width 600 mm.



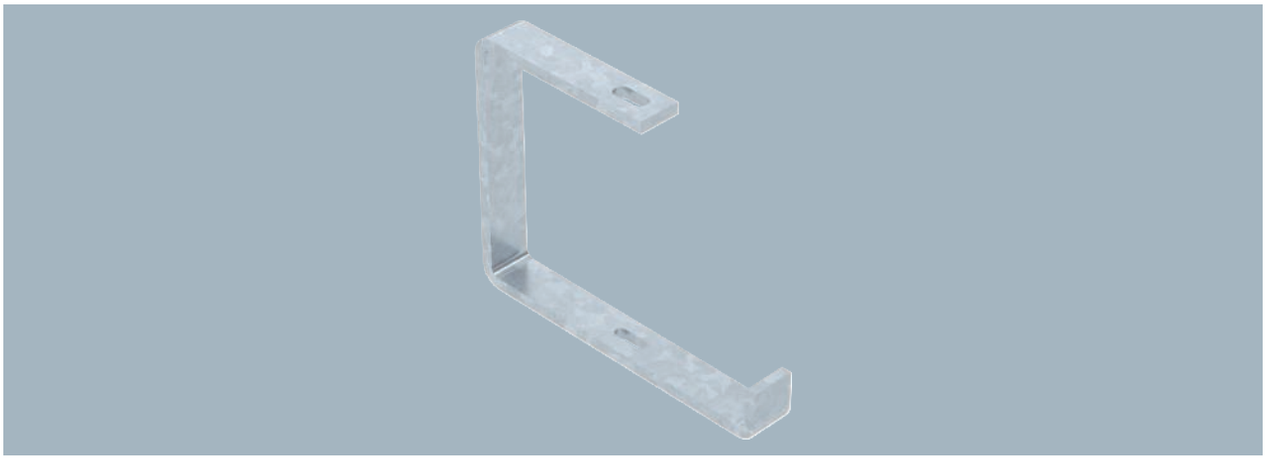
Stand-off of mesh cable trays
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Ceiling bracket

Ceiling bracket

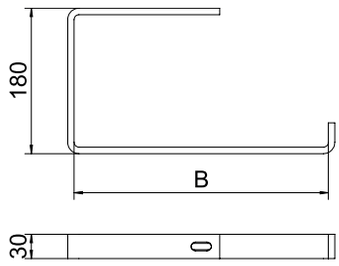
St FT



Type	for width mm	Dim. B mm	Hole Ø mm	F in kN ceiling kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 FT	100	115	11	0.6	1	54.000	**6363903**
AHB 150 FT	150	165	11	0.6	1	87.000	**6363907**
AHB 200 FT	200	215	11	0.6	1	101.000	**6363911**
AHB 300 FT	300	315	11	0.35	1	130.000	**6363938**
AHB 400 FT	400	415	11	0.2	1	157.000	**6363946**

Suspension bracket for cable support systems.

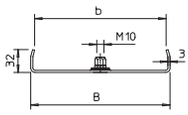
Dimensions



Centre suspensions

Centre suspension for cable tray, 35

St FS



Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 35 100 FS	100	M10	95	84	1.3	1	9.400	**6358690**
MAH 35 200 FS	200	M10	195	184	0.35	1	18.600	**6358692**
MAH 35 300 FS	300	M10	295	284	0.2	1	27.700	**6358694**

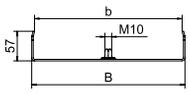
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

Centre suspension for cable trays with rolled side rail of side height 35 mm.

St FS FT

Centre suspension for cable tray, 60

Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 60 100 FS	100	M10	94	84	1.3	1	17.250	**6358705**
MAH 60 150 FS	150	M10	144	134	0.5	1	23.000	**6358709**
MAH 60 200 FS	200	M10	195	184	0.2	1	24.500	**6358713**
MAH 60 300 FS	300	M10	295	284	0.2	1	36.700	**6358717**
MAH 60 100 FT	100	M10	94	84	1.3	1	18.500	**6358752**
MAH 60 150 FT	150	M10	144	134	0.5	1	23.000	**6358756**
MAH 60 200 FT	200	M10	195	184	0.2	1	27.600	**6358760**
MAH 60 300 FT	300	M10	295	284	0.2	1	36.700	**6358764**



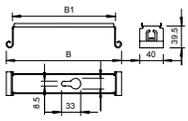
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).
The widths 100, 150 and 200 mm have additional base perforations, in order to screw the centre suspensions to the tray base when used for the maintenance of electrical functionality according to DIN 4102 Part 12.

Centre suspension for cable trays with rolled side rail of side height 60 mm.

St FS

Centre suspension for cable trays with rolled side rail

Type	for width mm	Dim. B mm	Dimension B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
MAH 050 FS	50	47	26	1	5.000	**6358500**
MAH 075 FS	75	72	51	1	6.500	**6358510**
MAH 100 FS	100	97	76	1	7.500	**6358527**
MAH 150 FS	150	147	126	1	8.000	**6358535**
MAH 200 FS	200	197	176	1	12.500	**6358543**

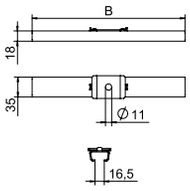


Centre suspension for cable trays for attachment from the side rail of the cable tray.

St FS

Centre suspension mesh cable tray

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 170 FS	170	25	20.000	**6015400**
GMS 270 FS	270	25	32.000	**6015402**
GMS 370 FS	370	25	43.000	**6015404**
GMS 470 FS	470	10	55.000	**6015406**

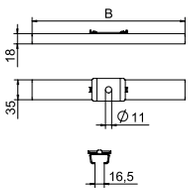


Centre suspension including hold-down clamp for mesh cable tray suspensions.

VA 2B

Centre suspension mesh cable tray

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 170 A4	170	25	20.000	**6015418**
GMS 270 A4	270	25	32.000	**6015419**
GMS 370 A4	370	25	43.000	**6015420**
GMS 470 A4	470	10	55.000	**6015421**
GMS 570 A4	570	10	67.000	**6015422**



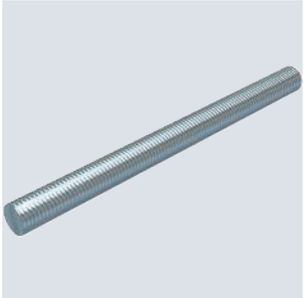
Centre suspension including hold-down clamp for mesh cable tray suspensions.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Threaded rods

Threaded rod

St G



Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M G	M6	6	1000	8.04	10	18.300	**3141047**
TR M8 1M G	M8	8	1000	14.6	10	30.000	**3141128**
TR M10 1M G	M10	10	1000	23.2	10	49.000	**3141209**
TR M12 1M G	M12	12	1000	33.7	10	62.000	**3141306**
TR M6 2M G	M6	6	2000	8.04	10	36.600	**3141048**
TR M8 2M G	M8	8	2000	14.6	10	60.000	**3141136**
TR M10 2M G	M10	10	2000	23.2	10	98.000	**3141140**
TR M12 2M G	M12	12	2000	33.7	10	140.000	**3141144**

Threaded rod to DIN 976.

Threaded rod

VA A4 2B

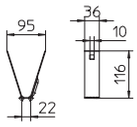
Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	–	10	18.300	**3141327**
TR M8 1M A2	M8	8	1000	18.3	10	30.000	**3141310**
TR M10 1M A2	M10	10	1000	29	10	49.000	**3141312**
TR M12 1M A2	M12	12	1000	42.2	10	70.000	**3141314**
TR M6 2M A2	M6	6	2000	–	10	36.600	**3141328**
TR M8 2M A2	M8	8	2000	–	10	60.000	**3141330**
TR M10 2M A2	M10	10	2000	29	10	98.000	**3141339**
TR M6 1M A4	M6	6	1000	–	1	18.300	**3141482**
TR M8 1M A4	M8	8	1000	–	1	30.000	**3141492**
TR M10 1M A4	M10	10	1000	–	1	49.000	**3141502**
TR M6 2M A4	M6	6	2000	–	1	36.600	**3141484**
TR M8 2M A4	M8	8	2000	–	1	60.000	**3141494**

Threaded rod to DIN 976.

Trapezoidal fastening

Ceiling bracket, trapezoidal

St FS



Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	**6357506**

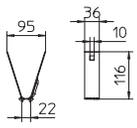
Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

Ceiling bracket, trapezoidal

VA 2B



Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 A2	1.5	0.8	20	9.900	**6357516**

Important: Observe the statics of the trapezoidal metal ceiling.

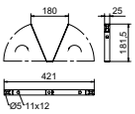
Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

St FS

Trapezoidal fastening

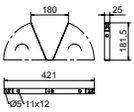
Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 FS	1.5	0.8	20	11.400	**6357522**



VA 2B

Trapezoidal fastening

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 A2	1.5	0.8	20	11.400	**6357524**

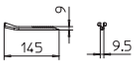


St FS

Splint for trapezoidal ceiling bracket

Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R FS	1.5	0.8	20	3.100	**6357536**

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

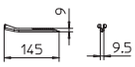


VA 2B

Splint for trapezoidal ceiling bracket

Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R A2	1.5	0.8	20	3.100	**6357538**

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.



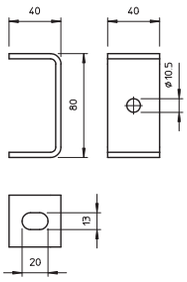
Bracket

St FT

Ceiling bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	**6356109**

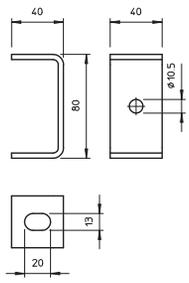
Ceiling bracket for threaded rod suspension.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Ceiling bracket

VA 2B

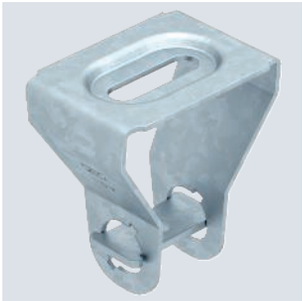


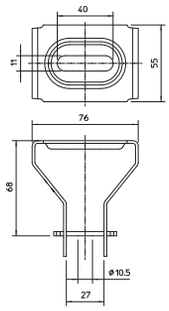
Type	Pack Piece	Weight kg/100 pc.	Item no.
DB A4	10	16.000	**6356113**

Ceiling bracket for threaded rod suspension.

Ceiling clamp, variable

St FS





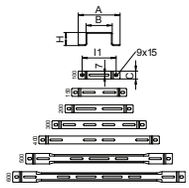
Type	Pack Piece	Weight kg/100 pc.	Item no.
DBV FS	20	18.200	**6356055**

The locked threaded rod seat offers the option of infinite angle adjustment.

Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

Stand-off bracket

St FS FT

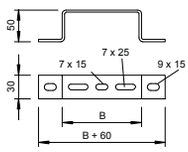


Type	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
DBL 50 100 FS	160	100	50	20	15.500	**6015506**
DBL 50 150 FS	210	150	50	20	18.800	**6015514**
DBL 50 200 FS	260	200	50	20	21.000	**6015522**
DBL 50 300 FS	360	300	50	20	36.900	**6015530**
DBL 50 400 FS	460	400	50	20	46.300	**6015549**
DBL 50 500 FS	560	500	50	25	57.200	**6015552**
DBL 50 600 FS	660	600	50	20	65.800	**6015555**
DBL 50 100 FT	160	100	50	20	16.000	**6015565**
DBL 50 150 FT	210	150	50	20	19.400	**6015573**
DBL 50 200 FT	260	200	50	20	22.000	**6015581**
DBL 50 300 FT	360	300	50	20	38.000	**6015603**
DBL 50 400 FT	460	400	50	20	47.700	**6015611**
DBL 50 500 FT	560	500	50	25	58.900	**6015614**
DBL 50 600 FT	660	600	50	20	67.800	**6015617**

Stand-off bracket for cable trays and mesh cable trays.

Stand-off bracket

VA 2B



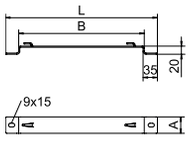
Type	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
DBL 50 100 A4	160	100	50	10	15.500	**6015630**
DBL 50 200 A4	260	200	50	10	22.800	**6015632**
DBL 50 300 A4	360	300	50	10	36.900	**6015633**
DBL 50 400 A4	460	400	50	10	46.300	**6015634**

Stand-off bracket for cable trays and mesh cable trays.

St FS FT

Stand-off bracket

Type	Height mm	Dim. A mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
DBLG 20 050 FS	20	30	56	120	20	10.300	**6015646**
DBLG 20 100 FS	20	30	106	170	20	12.076	**6015654**
DBLG 20 150 FS	20	30	156	220	20	17.400	**6015658**
DBLG 20 200 FS	20	30	206	270	20	20.900	**6015662**
DBLG 20 300 FS	20	40	306	370	20	37.300	**6015670**
DBLG 20 400 FS	20	40	406	470	20	46.700	**6015689**
DBLG 20 500 FS	20	40	506	570	25	56.900	**6015693**
DBLG 20 600 FS	20	40	606	670	25	66.400	**6015697**
DBLG 20 050 FT	20	30	56	120	20	10.700	**6015648**
DBLG 20 100 FT	20	30	106	170	20	14.300	**6015656**
DBLG 20 200 FT	20	30	206	270	20	21.700	**6015664**
DBLG 20 300 FT	20	40	306	370	20	38.800	**6015672**
DBLG 20 400 FT	20	40	406	470	20	48.600	**6015691**
DBLG 20 500 FT	20	40	506	570	25	54.702	**6015695**
DBLG 20 600 FT	20	40	606	670	25	69.100	**6015699**
DBLG 20 150 FT	20	30	156	220	20	18.100	**6015660**



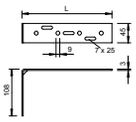
Screwless fastening of the mesh cable tray on the stand-off bracket.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.
GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the spacer clamp.

St FS

Wall bracket WW

Type	Dim. L mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
WW 100 15 FS	158	0.12	25	25.000	**6015360**
WW 100 20 FS	208	0.09	25	30.000	**6015379**



Wall bracket for fastening to masonry and concrete to accept low loads.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Beam clamp systems

The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.

Large support spacings possible

Infinite height adjustment

Beam clamp systems

Installation principle

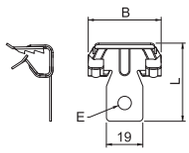
1	Chuck jaw, heavy duty
2	Chuck jaw, light duty
3	Profile rail
4	Clamping angle
5	Beam clamp, horizontal
6	Beam clamp, vertical

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Beam clamps for knocking in

Beam clamp, with fastening hole

St ZL

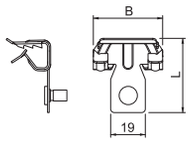


Type	Flange thickness mm	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVH 2-4	2-4	6.5	450	100	1.350	**1483601**
BCVH 4-8	4-8	6.5	950	100	1.660	**1483603**
BCVH 8-14	8-14	6.5	950	100	1.800	**1483605**
BCVH 14-20	14-20	6.5	950	100	1.950	**1483607**

Beam clamp for knocking in with fastening hole as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL

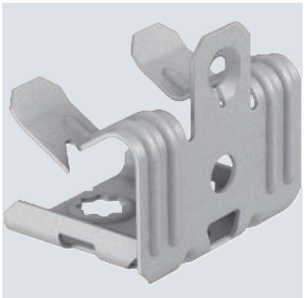


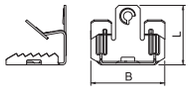
Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVTB 2-4 M6	2-4	M6 x 9mm	450	100	0.900	**1483611**
BCVTB 4-8 M6	4-8	M6 x 9mm	450	100	1.600	**1483613**
BCVTB 8-14 M6	8-14	M6 x 9mm	450	100	1.800	**1483615**
BCVTB 14-20 M6	14-20	M6 x 9mm	450	100	2.000	**1483617**

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

Beam clamp, with female thread

St ZL



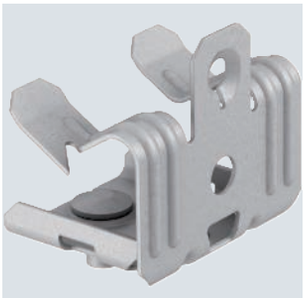


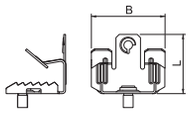
Type	Flange thickness mm	Thread	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUIT 3-7 M6	3-7	M6	7	350	100	2.100	**1483621**
BCUIT 8-12,5 M6	8-12	M6	7	500	100	2.450	**1483623**
BCUIT 14-20 M6	14-20	M6	7	500	100	2.700	**1483625**

Beam clamp for knocking in with internal thread as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL





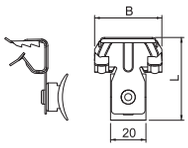
Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUTB 3-7 M6	3-7	M6 x 9 mm	350	100	2.850	**1483631**
BCUTB 8-12,5 M6	8-12.5	M6 x 9 mm	500	100	2.900	**1483633**
BCUTB 14-20 M6	14-20	M6 x 9 mm	500	100	3.200	**1483635**

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

St ZL

Beam clamp, with cable tie

Type	Flange thickness mm	Cable strip length mm	Max. D Ø	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCCT 2-4 L240	2-4	240	70	220	50	1.600	**1483641**
BCCT 4-8 L240	4-8	240	70	220	50	1.900	**1483643**
BCCT 4-8 L365	4-8	365	110	220	50	2.000	**1483645**
BCCT 8-14 L240	8-14	240	70	220	50	2.100	**1483647**
BCCT 8-14 L365	8-14	365	110	220	50	2.200	**1483649**
BCCT 14-20 L240	14-20	240	70	220	50	2.250	**1483651**
BCCT 14-20 L365	14-20	365	110	220	50	2.250	**1483653**

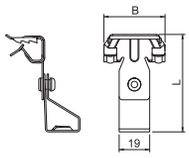


Beam clamp for knocking in with cable tie as individual fastening solution on the support.

St ZL

Beam clamp, for threaded rod

Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCTR 4-8 M6	4-8	M6	650	50	3.100	**1483661**
BCTR 8-14 M6	8-14	M6	650	50	3.300	**1483663**
BCTR 4-8 M8	4-8	M8	700	50	3.100	**1483665**
BCTR 8-14 M8	8-14	M8	700	50	3.100	**1483667**
BCTR 4-8 M10	4-8	M10	750	50	3.100	**1483669**
BCTR 8-14 M10	8-14	M10	750	50	3.200	**1483671**

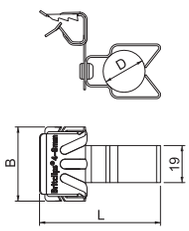


Beam clamp for knocking in with threaded rod seat as individual fastening solution on the beam.

St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPO 2-4 D20	2-4	20	110	50	2.950	**1483811**
BCHPO 2-4 D25	2-4	25	110	50	2.000	**1483813**
BCHPO 2-4 D32	2-4	32	110	50	2.400	**1483815**
BCHPO 4-8 D20	4-8	20	110	50	3.000	**1483821**
BCHPO 4-8 D25	4-8	25	110	50	3.200	**1483823**
BCHPO 4-8 D32	4-8	32	110	50	3.000	**1483825**
BCHPO 8-14 D20	8-14	20	110	50	3.200	**1483831**
BCHPO 8-14 D25	8-14	25	110	50	3.100	**1483833**
BCHPO 8-14 D32	8-14	32	110	50	3.300	**1483835**
BCHPO 14-20 D20	14-20	20	110	50	3.200	**1483841**
BCHPO 14-20 D25	14-20	25	110	50	3.100	**1483843**
BCHPO 14-20 D32	14-20	32	110	50	3.300	**1483845**

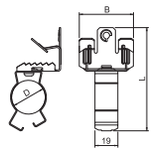


Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPC 3-7 D20	3-7	19-22	350	50	4.100	**1483781**
BCVPC 3-7 D25	3-7	23-25	450	50	4.500	**1483783**
BCVPC 3-7 D32	3-7	26-32	450	50	4.700	**1483785**
BCVPC 3-7 D40	3-7	33-40	450	50	5.600	**1483787**
BCVPC 8-12,5 D20	8-12.5	19-22	350	50	4.200	**1483791**
BCVPC 8-12,5 D25	8-12.5	23-25	450	50	4.700	**1483793**
BCVPC 8-12,5 D32	8-12.5	26-32	450	50	4.900	**1483795**
BCVPC 8-12,5 D40	8-12.5	33-40	450	50	5.800	**1483797**
BCVPC 14-20 D20	14-20	19-22	350	50	4.600	**1483801**
BCVPC 14-20 D25	14-20	23-25	450	50	5.200	**1483803**
BCVPC 14-20 D32	14-20	26-32	450	50	5.400	**1483805**
BCVPC 14-20 D40	14-20	33-40	450	50	6.300	**1483807**

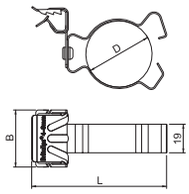


Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Beam clamp, for pipes

St ZL

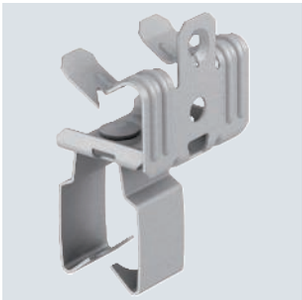


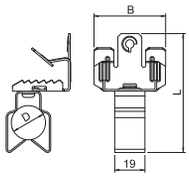
Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPC 2-4 D20	2-4	18-24	450	50	2.900	**1483681**
BCHPC 2-4 D25	2-4	22-26	450	50	3.200	**1483683**
BCHPC 2-4 D32	2-4	30-32	450	50	3.850	**1483685**
BCHPC 4-8 D20	4-8	18-24	450	50	3.400	**1483687**
BCHPC 4-8 D25	4-8	22-26	450	50	3.600	**1483689**
BCHPC 4-8 D32	4-8	30-32	450	50	3.900	**1483691**
BCHPC 4-8 D40	4-8	36-40	450	50	4.800	**1483693**
BCHPC 8-14 D20	8-14	18-24	450	50	3.800	**1483701**
BCHPC 8-14 D25	8-14	22-26	450	50	3.800	**1483703**
BCHPC 8-14 D32	8-14	30-32	450	50	4.200	**1483705**
BCHPC 8-14 D40	8-14	36-40	450	50	4.500	**1483707**
BCHPC 14-20 D20	14-20	18-24	450	50	3.500	**1483711**
BCHPC 14-20 D25	14-20	22-26	450	50	4.100	**1483713**
BCHPC 14-20 D32	14-20	30-32	450	50	4.700	**1483715**
BCHPC 14-20 D40	14-20	36-40	450	50	5.600	**1483717**

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

Beam clamp, for pipes

St ZL



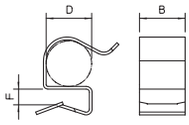


Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPO 3-7 D20	3-7	20	110	50	3.400	**1483751**
BCVPO 3-7 D25	3-7	25	110	50	3.500	**1483753**
BCVPO 3-7 D32	3-7	32	110	50	3.800	**1483757**
BCVPO 8-12,5 D20	8-12.5	20	110	50	4.100	**1483761**
BCVPO 8-12,5 D25	8-12.5	25	110	50	4.100	**1483763**
BCVPO 8-12,5 D32	8-12.5	32	110	50	4.100	**1483765**
BCVPO 14-20 D20	14-20	20	110	50	4.000	**1483771**
BCVPO 14-20 D25	14-20	25	110	50	4.250	**1483773**
BCVPO 14-20 D32	14-20	32	110	50	4.300	**1483775**

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

Beam clamp, for pipes

St ZL



Type	Flange thickness mm	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BCC 2-4 D5,5	2-4	4.5-5.5	100	0.400	**1483901**
BCC 2-4 D7	2-4	6-7	100	0.400	**1483903**
BCC 2-4 D9	2-4	7-9	100	0.450	**1483905**
BCC 2-4 D11	2-4	10-12	100	0.500	**1483907**
BCC 2-4 D14	2-4	12-14	100	0.550	**1483911**
BCC 2-4 D18	2-4	15-18	100	0.700	**1483915**
BCC 2-4 D24	2-4	19-24	100	0.800	**1483919**
BCC 2-4 D30	2-4	25-30	100	0.900	**1483923**
BCC 4-7 D5,5	4-7	4.5-5.5	100	0.500	**1483931**
BCC 4-7 D7	4-7	6-7	100	0.550	**1483933**
BCC 4-7 D9	4-7	7-9	100	0.600	**1483935**
BCC 4-7 D11	4-7	10-11	100	0.700	**1483937**
BCC 4-7 D14	4-7	12-14	100	0.700	**1483941**
BCC 4-7 D18	4-7	15-18	100	0.800	**1483945**
BCC 4-7 D24	4-7	19-24	100	0.900	**1483951**
BCC 4-7 D30	4-7	25-30	100	1.100	**1483955**
BCC 8-12 D5,5	8-12	4.5-5.5	100	0.500	**1483960**
BCC 8-12 D7	8-12	6-7	100	0.600	**1483961**
BCC 8-12 D9	8-12	7-9	100	0.700	**1483963**
BCC 8-12 D11	8-12	10-11	100	0.700	**1483965**
BCC 8-12 D14	8-12	12-14	100	0.800	**1483969**
BCC 8-12 D18	8-12	15-18	100	0.900	**1483973**
BCC 8-12 D24	8-12	19-24	100	1.100	**1483977**
BCC 8-12 D30	8-12	25-30	100	1.100	**1483981**

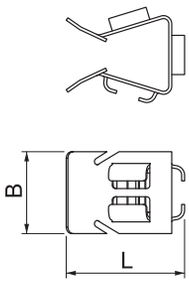
Beam clamp for knocking in for cables as individual fastening solution on the beam.

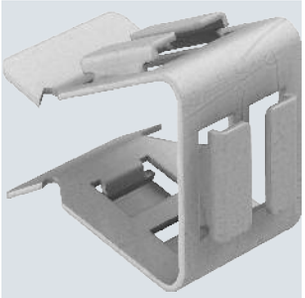
St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
BCCA	12-20	100	1.700	**1483999**

Beam clamp adapter for knocking in. Seat for BCC beam clamps for flange thicknesses of 2–4 mm.



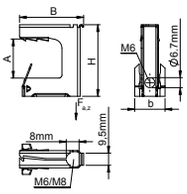


St ZDM

Beam clamp, multifunctional

Type	Flange thickness mm	Height mm	Width mm	Dim. A mm	Dim. B mm	Dim. H mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK MULTI 8	2-8	30	30	8	30	30	1.2	100	0.100	**1485140**
TK MULTI 16	8-16	38	32	16	32	38	1.2	100	0.120	**1485144**
TK MULTI 24	16-24	48	42	24	42	48	1.2	50	0.170	**1485148**

The multifunctional beam clamp is suitable for fastening cables, protective pipes and cable sections on steel girders of any size (one clip for every application). Here, the beam clamp is very versatile thanks to various fastening options. Mounting of the beam clamp is quick and efficient, with no need for welding or drilling. It is simply mounted by hammering or pushing into place. The beam clamp can be used in both internal and external areas.

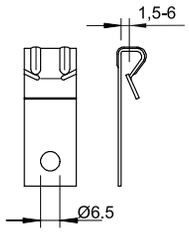


St ZL

Profile suspensions

Type	Flange thickness mm	Height mm	Width mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKL 4	1.5-4	52	10	0.72	100	0.860	**1485105**
TKL 6	4-6	54	12	0.72	100	1.090	**1485113**

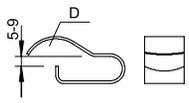
Profile suspension with drill hole to accept S hooks.



St ZL

Support clip

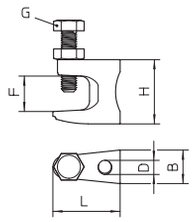
Type	Flange thickness mm	Pipe size D mm	Pack Piece	Weight kg/100 pc.	Item no.
BCCF 8-9 D20	8-9	20	100	1.100	**1483985**



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Screw-in beam clamp, with gland hole

TG

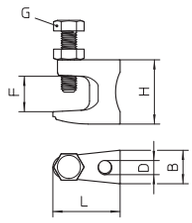


Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL 1 TG	0-18	35	9	1.2	50	8.500	**1488015**
FL 2 TG	0-20	42	11	2.5	50	14.000	**1488023**
FL 3 TG	0-26	54	13	3.5	25	18.000	**1488031**

With gland hole.

Screw-in beam clamp, with thread

TG

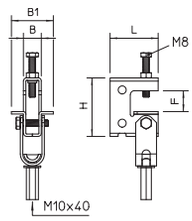


Type	Flange thickness mm	Height mm	For threaded rod	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL1-G M8 TG	0-18	35	M8	1.2	50	8.500	**1488074**
FL2-G M10 TG	0-20	42	M10	2.5	50	14.000	**1488082**
FL3-G M12 TG	0-26	54	M12	3.5	25	22.000	**1488090**

With thread.

Screw-in beam clamp, with hinge

St ZL

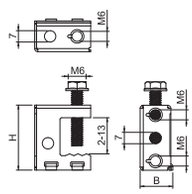


Type	Flange thickness mm	For threaded rod	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK FL G	0-24	M10	2.8	10	34.000	**1488111**

Two-hinge beam clamp for fastening on beams without welding and drilling. The maximum load is dependent on the load direction.

Screw-in beam clamp, universal

St ZL



Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK 213	2-13	35	6.5	0.55	100	2.720	**1484702**

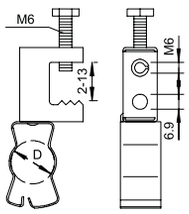
Various fastening options (horizontal and vertical).

St ZL

Screw-in beam clamp, for pipes and cables

Type	Flange thickness mm	Clamping range D mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS 213-25	2-17	23-25	0.45	50	3.990	**1484818**
TKS 213-32	2-17	26-32	0.45	50	4.170	**1484826**

With rotating clip to accept pipes and cables, lockable.

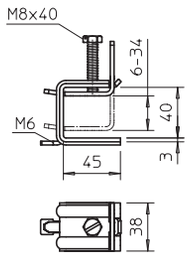


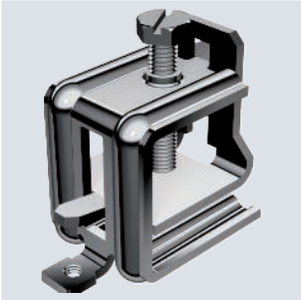
St G

Beam clamp for screwing on, light-duty

Type	Flange thickness mm	Pack Pair	Weight kg/100 pairs	Item no.
339 2	6-34	5	37.000	**1408534**

For rapid fastening on steel profiles during the mounting of cable tracks, clamp clips, luminaire suspensions, etc. A complete system consists of two beam clamps and a piece of C profile rail of any length, as well as two end caps.





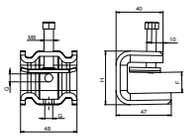
St FT

CE

Beam clamp SSP 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 FT	6-21	M6	1.75	1.5	25	23.900	**1486232**
SSP 6-21 M8 FT	6-21	M8	1.75	1.5	25	23.900	**1486282**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.



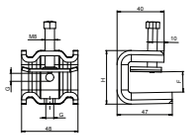
VA VA A2 2B

CE

Beam clamp SSP 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 A2	6-21	M6	1.75	1.5	25	23.200	**1486234**
SSP 6-21 M6 A4	6-21	M6	1.75	1.5	25	23.200	**1486236**
SSP 6-21 M8 A2	6-21	M8	1.75	1.5	25	23.200	**1486284**
SSP 6-21 M8 A4	6-21	M8	1.75	1.5	25	23.200	**1486286**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

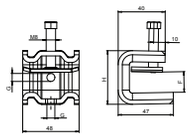


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Beam clamp SSP 20-40

St FT

CE



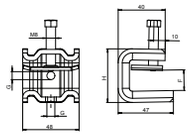
Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 FT	20-40	M6	1.4	1.3	25	27.700	**1486238**
SSP 20-40 M8 FT	20-40	M8	1.4	1.3	25	27.800	**1486288**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

Beam clamp SSP 20-40

VA VA A2 2B

CE



Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 A2	20-40	M6	1.4	1.3	25	27.700	**1486242**
SSP 20-40 M6 A4	20-40	M6	1.4	1.3	25	27.700	**1486244**
SSP 20-40 M8 A2	20-40	M8	1.4	1.3	25	27.800	**1486292**
SSP 20-40 M8 A4	20-40	M8	1.4	1.3	25	27.800	**1486294**

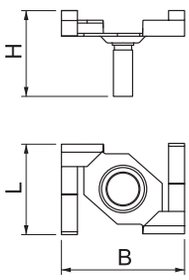
This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

St ZL

Ceiling profile clamp - CPC

Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPC M6x11	M6 x 11mm	220	100	1.000	**1483991**
CPC M6x16	M6 x 16 mm	220	100	1.150	**1483993**
CPC M6x25	M6 x 25 mm	220	100	1.250	**1483995**

Ceiling profile clamp with threaded bolt

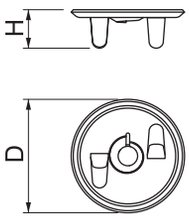


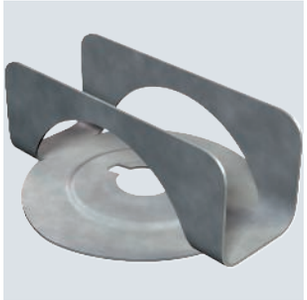
St ZL

Locknut - CPCN

Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPCN M6	M6	220	100	0.650	**1483997**

Locknut for CPC ceiling profile clamp



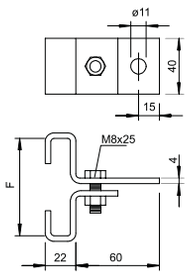


St FT

Beam clamp

Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
325 70 FT	70	60	11	10	25	27.900	**5327075**
325 80 FT	80	60	11	10	25	32.000	**5327083**
325 100 FT	100	60	11	9	25	33.500	**5327105**
325 130 FT	130	60	11	8	25	36.500	**5327121**

The two brackets are clamped to the flange.
For individual component suspension.

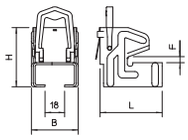


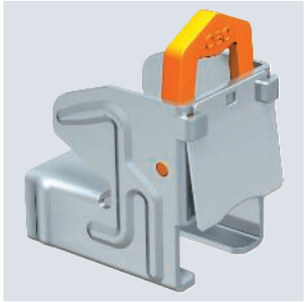
St ZL

Beam clamp, for profile rail CM3518

Type	Flange thickness mm	Height mm	Width mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
328 1	5 - 11	54.3	39.5	57	50	10.800	**1408011**
328 2	10 - 19	54.3	39.5	67	50	12.500	**1408046**

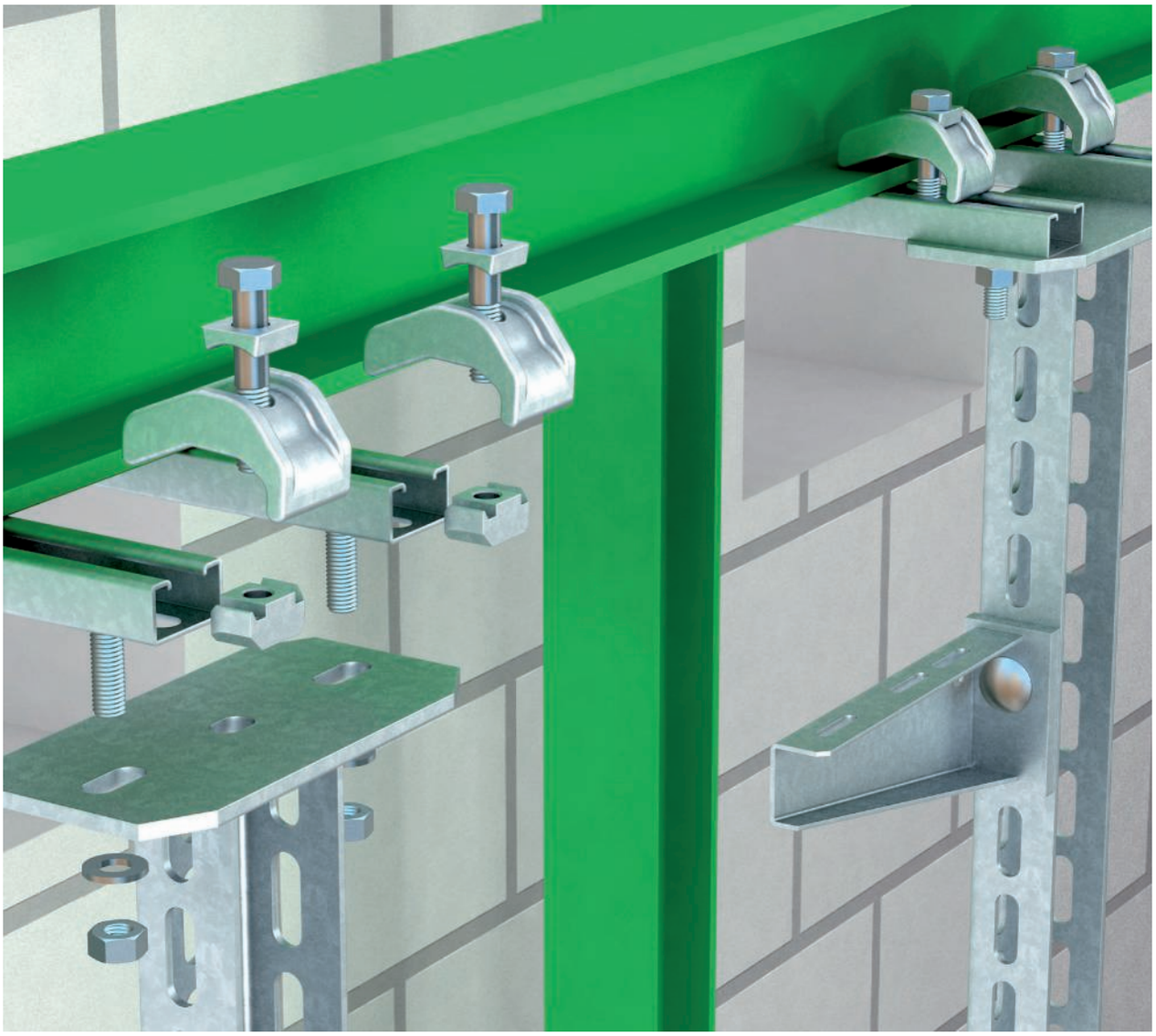
Screwless rustproof coated beam clamp, with blocking spring, suitable for profile rail, type CML3518 and CMS3518. For rapid fastening to steel profiles when installing cable tracks, clamp clips, light mounts, etc. A complete system consists of 2 beam clamps and one piece of C profile rail of any length, and 2 end caps.





Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

System description



The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws. The clamping lugs/clamping angles, type KL, KWH and KWS, and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.

Installation principle

1	Chuck jaw, heavy duty
2	Chuck jaw, light duty
3	Profile rail
4	Clamping angle
5	Beam clamp, horizontal
6	Beam clamp, vertical

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting aid

Application on horizontal steel girder
Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.

Application on sloping steel girder
Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.

Steel clamping, C profile rail
Fastening of a C profile, type MS 4022 or MS 5030, to steel girder using clamping angles, type KWS.

Direct girder clamping
Direct girder clamping of an I suspended support using chuck jaw (heavy duty), type TKS-S-30. Route along steel girder.

Clamp fastening with addition C profile
Use of an additional C profile rail, type MS, for wider steel girders. Route along steel girder.

Clamping transverse to steel girder
Use with two C profile rails for tray mounting transverse to the steel girder.

Cantilever beam on steel
Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.

Cantilever beam with support
Cantilever beams made of U support construction clamped to steel girder for installing supports.

Clamp fastening on vertical steel girder
Mounting of the adapter plate, type KA-AW, on the vertical steel girder using clamping angles or chuck jaws. Wall brackets of type AW are fastened to the adapter plate, using the hexagon head screw SKS 12x40 GF.

45° adapter plate, steel clamping
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.

Vertical clamp fastening
Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.

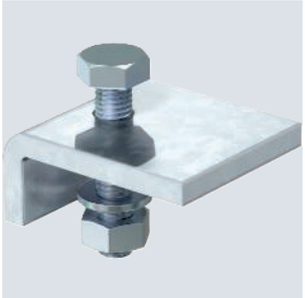
Vertical clamp fastening
Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.

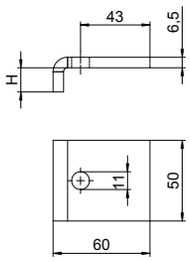
Horizontal clamp fastening
Installation of AZ small duct using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Clamping angle KL

St FT



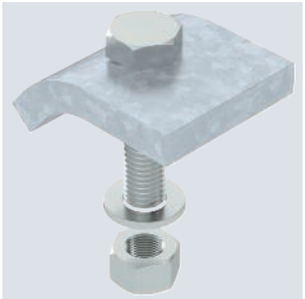


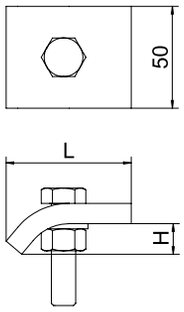
Type	Height mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
KL1 10 S FT	10	M10x40	10	22.100	**6354106**
KL1 15 S FT	15	M10x50	10	23.400	**6354114**
KL1 20 S FT	20	M10x50	10	25.000	**6354122**

Clamping angle, type KL1, to fasten light support structures to steel girder flanges.
Choose the clamping lug according to the thickness of the flange.

Clamping angle KWS

St FT



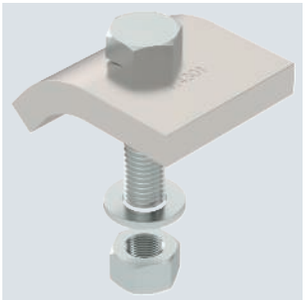


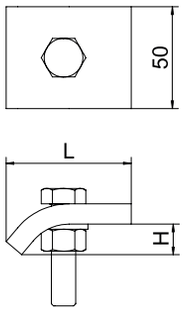
Type	F in kN kN	Bolt	Dim. H mm	Pack Pair	Weight kg/100 pairs	Item no.
KWS 5 FT	5.7	M12x40	5	10	64.000	**6355218**
KWS 10 FT	5.7	M12x50	10	10	70.000	**6355226**
KWS 15 FT	5.7	M12x50	15	10	65.200	**6355234**
KWS 20 FT	5.7	M12x60	20	10	79.000	**6355242**
KWS 25 FT	5.7	M12x60	25	10	80.000	**6355250**

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.
Choose the clamping angle according to the thickness of the flange.

Clamping angle KWS

VA 2B



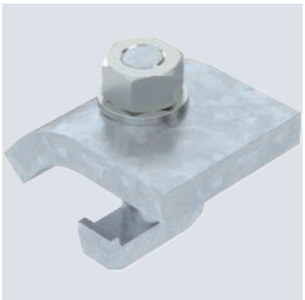


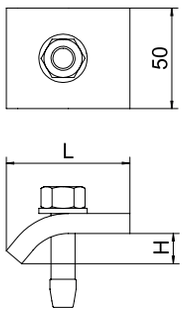
Type	F in kN kN	Bolt	Dim. H mm	Pack Pair	Weight kg/100 pairs	Item no.
KWS 5 A2	5.7	M12x40	5	5	62.000	**6355404**
KWS 10 A2	5.7	M12x50	10	5	68.000	**6355412**
KWS 15 A2	5.7	M12x50	15	5	73.000	**6355420**
KWS 20 A2	5.7	M12x60	20	5	77.000	**6355439**
KWS 25 A2	5.7	M12x60	25	5	81.000	**6355447**

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.
Choose the clamping angle according to the thickness of the flange.

Clamping angle KWH

St FT





Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
KWH 5 FT	5	5.7	M12x40	10	67.000	**6355021**
KWH 10 FT	10	5.7	M12x50	10	73.000	**6355048**
KWH 15 FT	15	5.7	M12x50	10	76.000	**6355056**
KWH 20 FT	20	5.7	M12x60	10	82.000	**6355064**
KWH 25 FT	25	5.7	M12x60	10	87.000	**6355072**

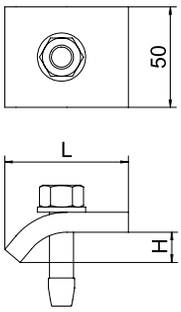
Clamping angle, with hook-head bolt, type KWH, for fastening in the mounting rail, type MS5030.
Adapt the clamping angle to the material thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm.

VA 2B

Clamping angle KWH

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
KWH 5 A2	5	5.7	M12x40	5	65.000	**6355307**
KWH 10 A2	10	5.7	M12x50	5	71.000	**6355315**
KWH 15 A2	15	5.7	M12x50	5	73.000	**6355323**
KWH 20 A2	20	5.7	M12x60	5	80.000	**6355331**
KWH 25 A2	25	5.7	M12x60	5	84.000	**6355358**

Clamping angle, with hammer-head bolt, type KWH, for fixing in the profile rail, type CPS 5.
Choose the clamping angle according to the thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

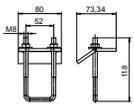


St FT

Clamp

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	**1124679**

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

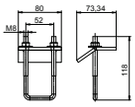


VA

Clamp

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 A4	118	80	74	20	32.300	**1124719**

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

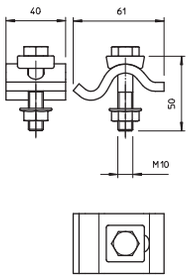


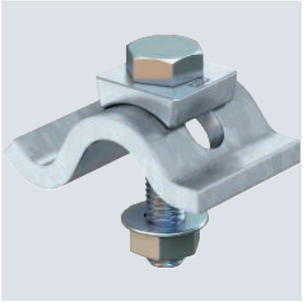
St FT

Chuck jaw, light duty TKS

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKS-L-25 FT	25	10	M10x50	10	39.200	**6355808**

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.



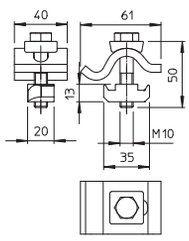


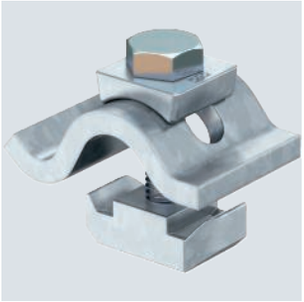
St FT

Chuck jaw, light duty TKH

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKH-L-25 FT	25	10	M10x25	10	46.000	**6355812**

Light-duty chuck jaw with slide nut for fixing profile rails to steel girder flanges.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in combination with profile rails of slot widths 18 mm and 22 mm.

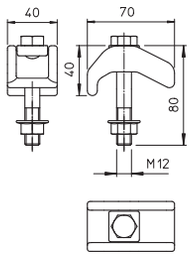




Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Chuck jaw, heavy duty TKS

St ZL

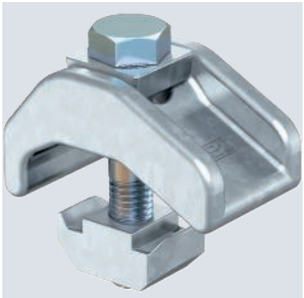


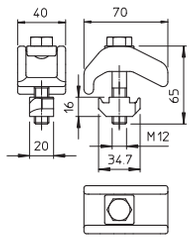
Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKS-S-30 ZL	30	21	M12 x 75	10	82.800	**6355798**

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.

Chuck jaw, heavy duty TKH

St ZL



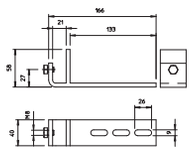


Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKH-S-30 ZL	30	21	M12 x 65	10	88.600	**6355805**

Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.
The chuck jaw is used in combination with profile rails of slot width 22 mm.

Beam clamp, vertical BFK 166

St FT

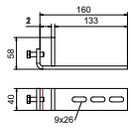


Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 166 58 20 FT	166	133	10	45.000	**6003888**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

Beam clamp, vertical BFK 166

VA 2B



Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 166 58 20 A2	166	133	10	46.000	**6003877**

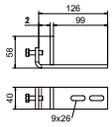
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

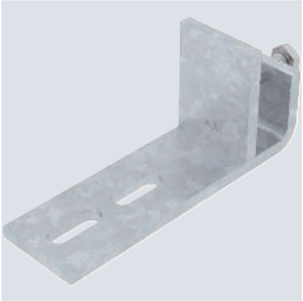
St FT

Beam clamp, vertical BFK 132

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 132 58 FT	132	99	10	39.000	**6003880**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.



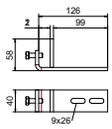


VA 2B

Beam clamp, vertical BFK 132

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 132 58 A2	132	99	10	38.000	**6003871**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

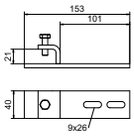


St FT

Beam clamp, horizontal BFK 153

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 153 33 FT	153	101	10	37.000	**6003884**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

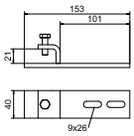


VA 2B

Beam clamp, horizontal BFK 153

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 153 33 A2	153	101	10	37.200	**6003873**

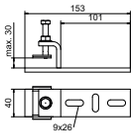
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Beam clamp with pressure plate, horizontal BFK 153

St FT

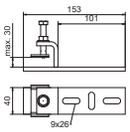


Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFKD 153 44 FT	153	101	10	41.400	**6003885**

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

Beam clamp with pressure plate, horizontal BFK 153

VA 2B

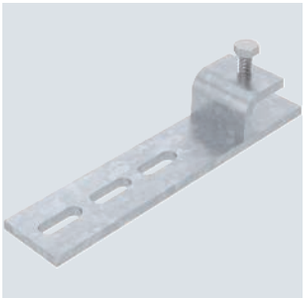


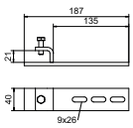
Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFKD 153 44 A2	153	101	10	42.400	**6003887**

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

Beam clamp, horizontal BFK 187

St FT



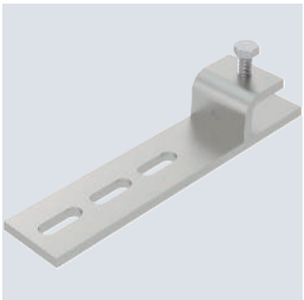


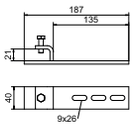
Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 187 33 FT	187	135	10	43.000	**6003892**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

Beam clamp, horizontal BFK 187

VA 2B



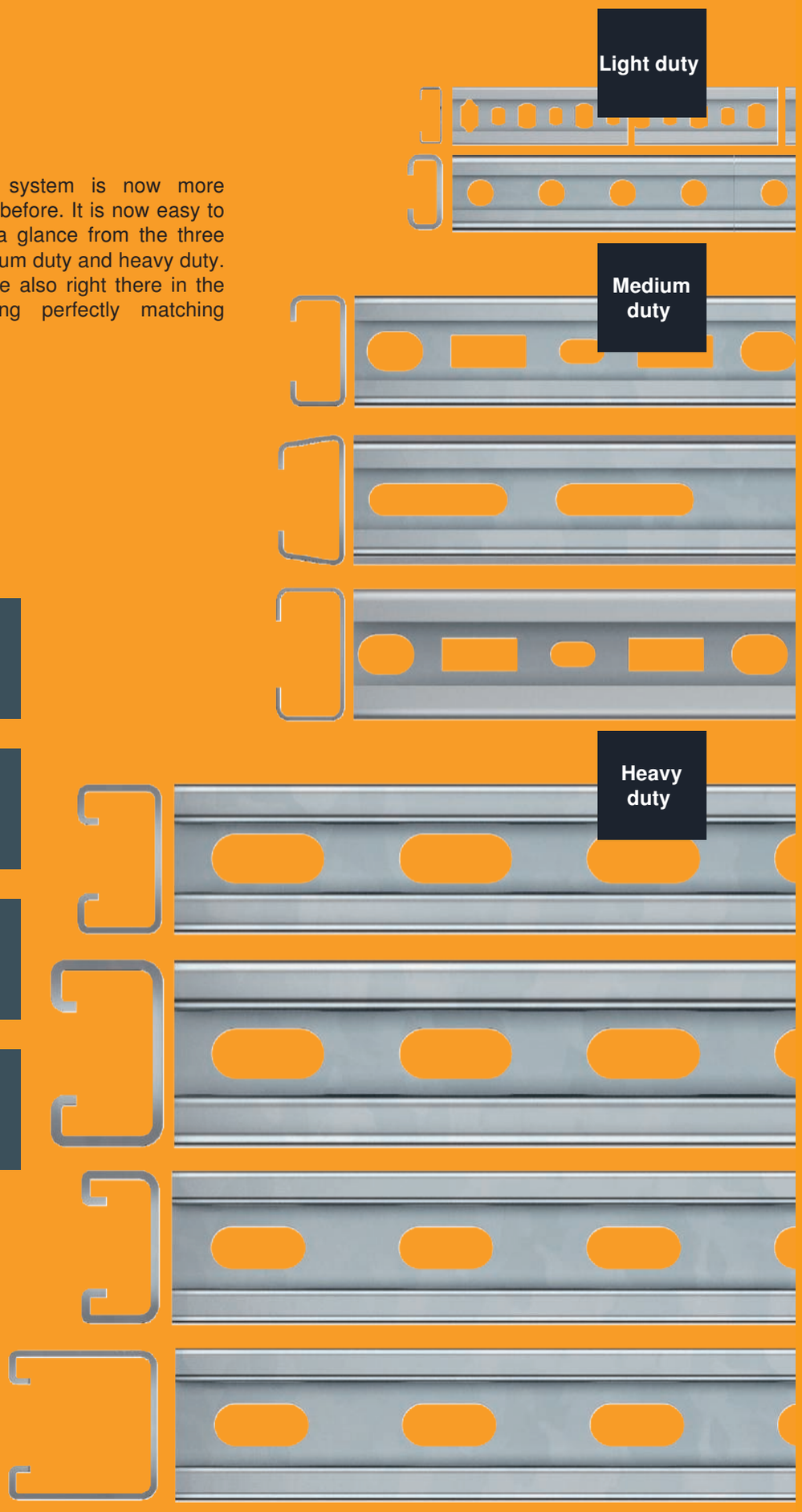


Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 187 33 A2	187	135	10	42.000	**6003879**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

Rail systems from OBO

OBO's tried-and-tested rail system is now more logically structured than ever before. It is now easy to choose the right product at a glance from the three load classes: Light duty, medium duty and heavy duty. The matching accessories are also right there in the selection aids. So choosing perfectly matching products is simply a breeze.



Highly versatile

Different perforation patterns

Strip galvanised and hot-dip galvanised

Stainless steel grades V2A and V4A

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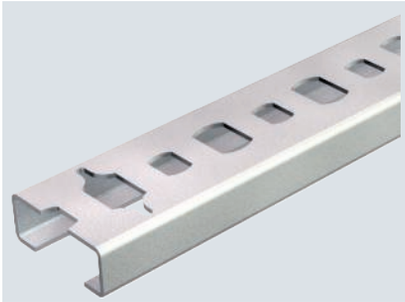
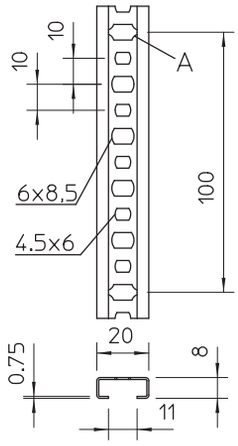
CL2008 profile rail, slot 11 mm, perforated, breakable

St FS



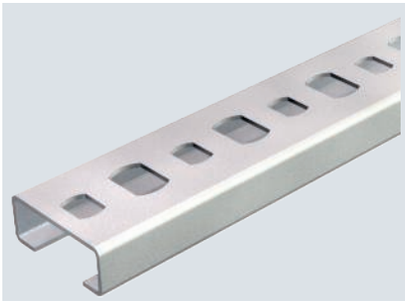
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2008BP2000FS	2000	0.75		2	21.100	**1106120**



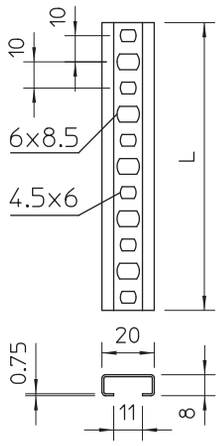
CL2008 profile rail, slot 11 mm, perforated

St FS BK



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

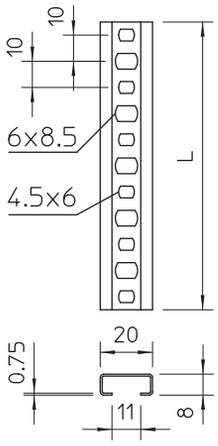
Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2008P2000FS	2000	0.75		2	20.000	**1106627**
CL2008BP2000BK	2000	0.75		2	20.000	**1106023**
CL2008BP2000FS	2000	0.75		2	21.100	**1106120**
CL2008BP1000FS	1000	0.75		10	21.500	**1105906**



VA 2B

CL2008 profile rail, slot 11 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2008P2000A2	2000	0.75		2	21.400	**1106628**

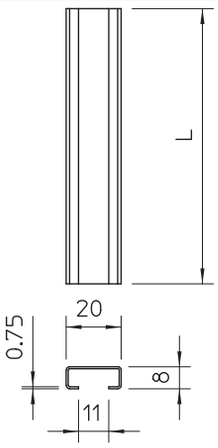


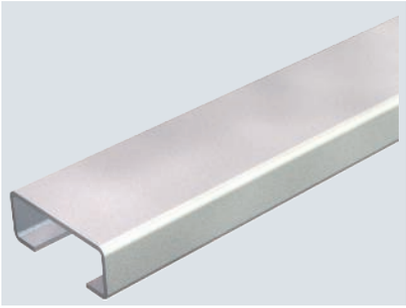
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

St FS

CL2008 profile rail, slot 11 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2008UP2000FS	2000	0.75		2	20.000	**1105124**



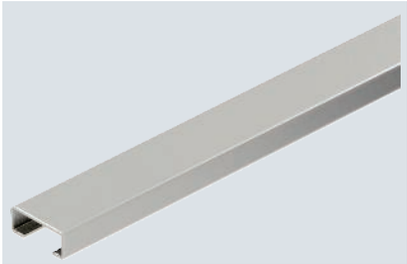


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

CL2008 profile rail, slot 11 mm, unperforated

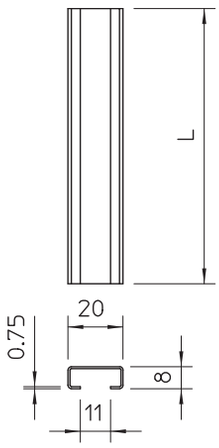
VA 2B



Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2008UP2000A2	2000	0.75		2	23.550	**1105125**

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Dimensions



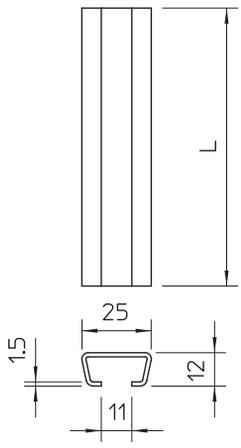
Type	Dimension W x H mm	Dim. L mm
CL2008UP2000A2	20 x 8	2000

Profile rail CL2512, slot 11 mm, unperforated

St FS

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2512UP2000FS	2000	1.5		2	58.300	**1117033**

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.



St FS FT
11 N

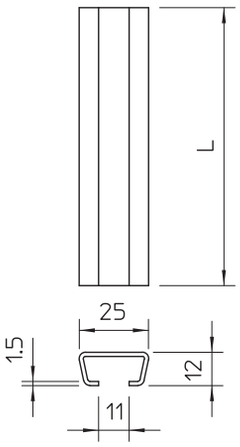
Profile rail CL2512, slot 11 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2512UP2000FT	2000	1.5	2	65.000	**1117025**
CL2512UP2000FS	2000	1.5	2	58.300	**1117033**

Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Dimension W x H mm	Dim. L mm
CL2512UP2000FT	25 x 12	2000
CL2512UP2000FS	25 x 12	2000

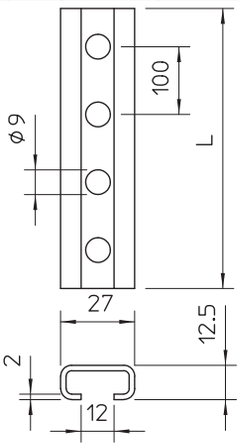
Dimensions



St FS FT
12 N

CL2712 profile rail, slot 12 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2712P2000FS	2000	2	2	85.000	**1109525**
CL2712P2000FT	2000	2	2	89.500	**1109529**

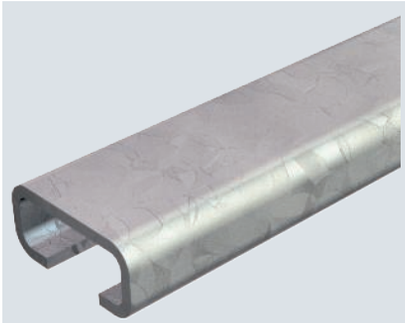


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

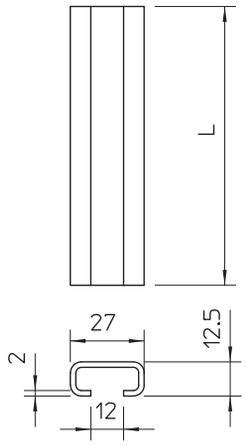
Profile rail CL2712, slot 12 mm, unperforated

St BK FT



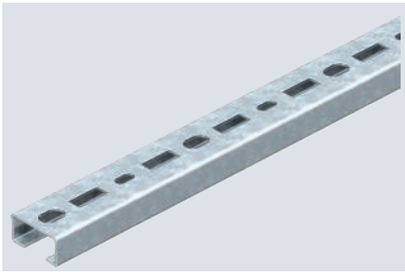
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2712UP2000FT	2000	2	2	90.000	1109022
CL2712UP2000BK	2000	2	2	90.000	1109014



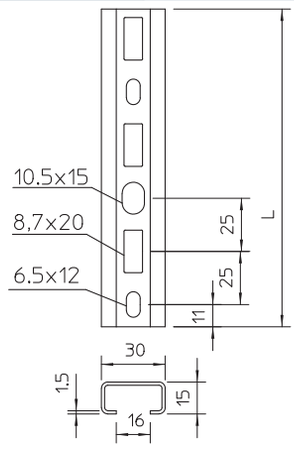
CM3015 profile rail, slot 16 mm, perforated

St FS FT



Profile rail, perforated, slot width 16 mm.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CM3015P0200FT	200	1.5	25	15.000	1109782
CM3015P0300FT	300	1.5	25	22.000	1109790
CM3015P0400FT	400	1.5	10	30.000	1109804
CM3015P0500FT	500	1.5	10	37.000	1109812
CM3015P0600FT	600	1.5	10	44.000	1109820
CM3015P0700FT	700	1.5	10	50.000	1109839
CM3015P0800FT	800	1.5	10	56.000	1109847
CM3015P1000FT	1000	1.5	10	73.000	1109863
CM3015P2000FT	2000	1.5	2	73.000	1109871
CM3015P2000FS	2000	1.5	2	69.000	1110002

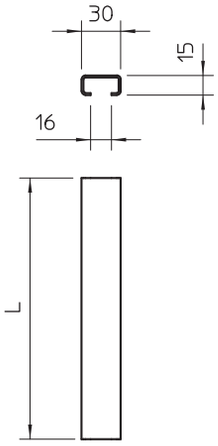


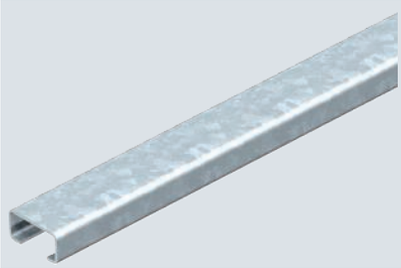
St FS

16 H

CM3015 profile rail, slot 16 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CM3015UP2000FS	2000	1.5		2	75.500	**1110004**





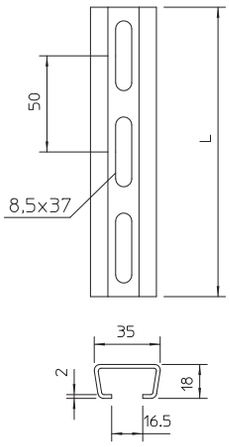
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

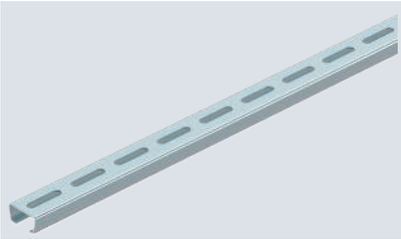
St FS FT

16,5 H

Anchor rail AML3518, slot width 16.5 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AML3518P1000FS	1000	1.5		1	82.000	**1119646**
AMS3518P1000FS	1000	2		1	115.000	**1112735**
AML3518P2000FS	2000	1.5		2	82.500	**1119648**
AML3518P1000FT	1000	1.5		10	89.000	**1119672**
AML3518P2000FT	2000	1.5		2	89.000	**1119656**
AMS3518P1000FT	1000	2		1	122.000	**1112755**



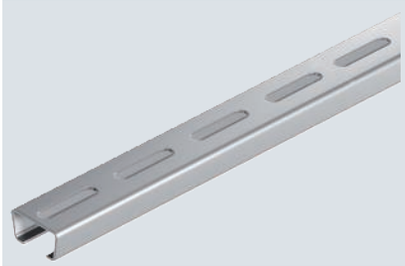


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

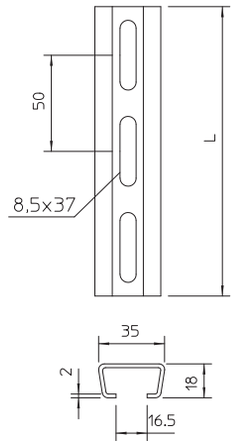
AML3518 anchor rail, slot 16.5 mm, perforated

VA 2B



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518P1000A2	1000	1.5	1	82.000	**1119700**
AML3518P2000A2	2000	1.5	2	82.000	**1119702**
AML3518P6000A2	6000	1.5	6	80.000	**1119729**



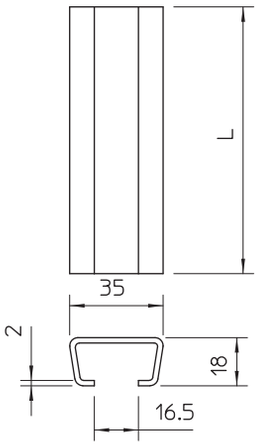
AML3518 anchor rail, slot 16.5 mm, unperforated

VA 2B

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000A2	2000	1.5	2	90.000	**1112007**
AMS3518UP2000A2	2000	2	2	116.000	**1110005**

Dimensions



Type	Dimension W x H mm	Dim. L mm
AML3518UP2000A2	35 x 18	2000
AMS3518UP2000A2	35 x 18	2000

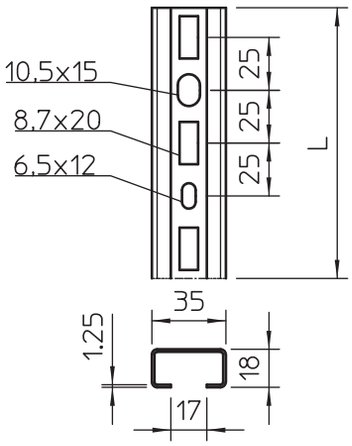
St FS FT

17 H E30 E90

CML3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
CML3518P0150FS	150	1.25		25	10.600	**1104241**
CML3518P0200FS	200	1.25		25	14.200	**1104268**
CML3518P0300FS	300	1.25		25	21.300	**1104284**
CML3518P0400FS	400	1.25		10	28.400	**1104292**
CML3518P0500FS	500	1.25		10	35.500	**1104306**
CML3518P0600FS	600	1.25		10	42.600	**1104310**
CML3518P0700FS	700	1.25		10	49.700	**1104315**
CML3518P0800FS	800	1.25		10	56.800	**1104320**
CML3518P0900FS	900	1.25		10	63.900	**1104325**
CML3518P0150FT	150	1.25		25	11.400	**1104550**
CML3518P0200FT	200	1.25		25	15.300	**1104552**
CML3518P0300FT	300	1.25		25	22.900	**1104554**
CML3518P0400FT	400	1.25		10	30.500	**1104556**
CML3518P0500FT	500	1.25		10	38.200	**1104558**
CML3518P0600FT	600	1.25		10	45.800	**1104560**
CML3518P0700FT	700	1.25		10	53.400	**1104562**
CML3518P0800FT	800	1.25		10	61.100	**1104564**
CML3518P0900FT	900	1.25		10	68.700	**1104566**

Light-duty profile rail, perforated, slot width 17 mm.



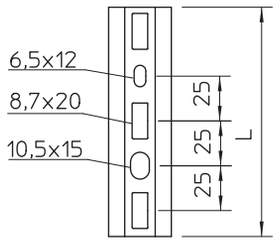
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

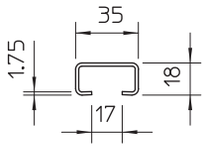
CMS3518 profile rail, slot 17 mm, perforated

St FS FT

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
CMS3518P0150FS	150	1.75		25	14.670	1104349
CMS3518P0200FS	200	1.75		25	19.560	1104357
CMS3518P0300FS	300	1.75		25	29.340	1104373
CMS3518P0400FS	400	1.75		10	39.120	1104391
CMS3518P0900FS	900	1.75		10	88.020	1104435
CMS3518P0500FS	500	1.75		10	48.900	1104403
CMS3518P0600FS	600	1.75		10	58.680	1104411
CMS3518P0700FS	700	1.75		10	68.460	1104422
CMS3518P0800FS	800	1.75		10	78.240	1104427
CMS3518P0150FT	150	1.75		25	15.435	1104581
CMS3518P0200FT	200	1.75		25	20.580	1104583
CMS3518P0300FT	300	1.75		25	30.870	1104585
CMS3518P0400FT	400	1.75		10	41.160	1104587
CMS3518P0500FT	500	1.75		10	51.450	1104589
CMS3518P0600FT	600	1.75		10	61.740	1104591
CMS3518P0700FT	700	1.75		10	72.030	1104593
CMS3518P0800FT	800	1.75		10	82.320	1104595
CMS3518P0900FT	900	1.75		10	92.610	1104597



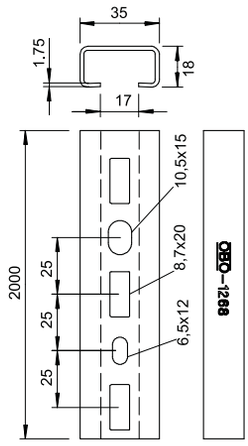


CML3518 profile rail, slot 17 mm, perforated

St FS FT

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

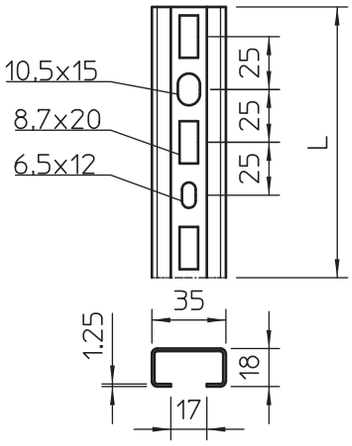
Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CML3518P1000FS	1000	1.25		1	71.000	1104497
CML3518P2000FS	2000	1.25		2	71.000	1104500
CML3518P1000FT	1000	1.25		10	73.600	1104568
CML3518P2000FT	2000	1.25		20	73.600	1104570
CMS3518P1000FS	1000	1.75		10	97.800	1104445
CMS3518P2000FS	2000	1.75		2	97.800	1104454



VA 2B

CML3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CML3518P1000A2	1000	1.25	1	71.000	**1104498**
CML3518P2000A2	2000	1.25	2	71.000	**1104501**

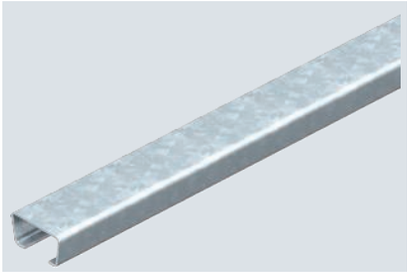


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

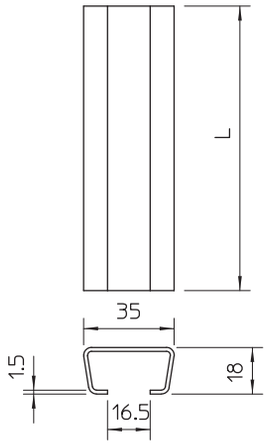
AML3518 anchor rail, slot 16.5 mm, unperforated

St FS



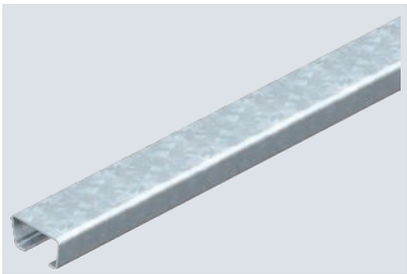
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000FS	2000	1.5	2	90.000	**1118226**



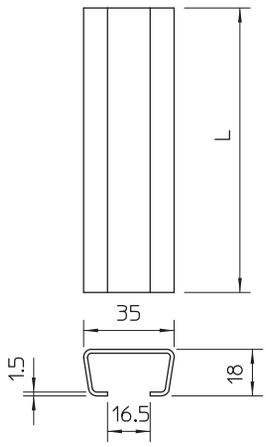
AML3518 anchor rail, slot 16.5 mm, unperforated

St FT



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000FT	2000	1.5	2	89.400	**1118129**
AML3518UP6000FT	6000	1.5	6	94.840	**1118153**

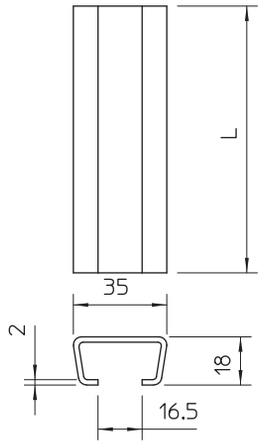


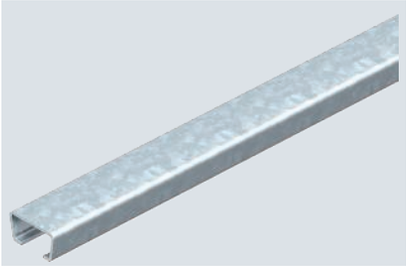
St FS

16,5 H

AMS3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FS	2000	2		2	116.000	**1112120**





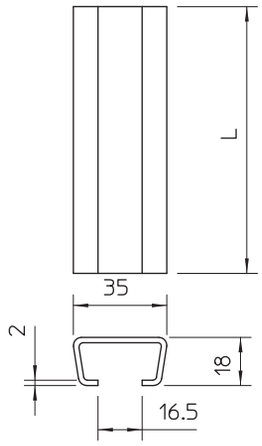
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

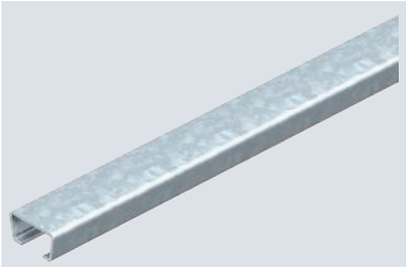
St FT

16,5 H

AMS3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FT	2000	2		2	121.350	**1112228**



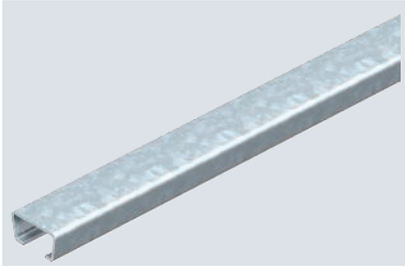


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

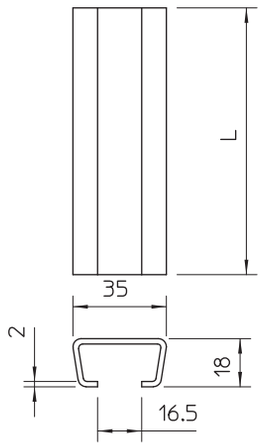
AMS3518 anchor rail, slot 16.5 mm, unperforated

St FS BK FT



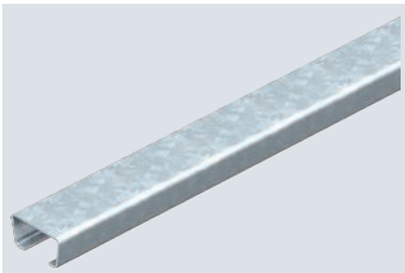
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518UP2000BK	2000	2		2	116.000	**1112023**
AMS3518UP2000FS	2000	2		2	116.000	**1112120**
AMS3518UP2000FT	2000	2		2	121.350	**1112228**
AMS3518UP6000FS	6000	2		6	116.000	**1112139**
AMS3518UP6000FT	6000	2		6	111.167	**1112244**
AMS3518UP6000BK	6000	2		6	116.000	**1112074**



AML3518 anchor rail, slot 16.5 mm, unperforated

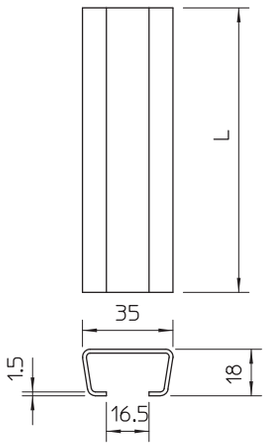
St BK



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AML3518UP2000BK	2000	1.5		2	90.000	**1118021**

Dimensions



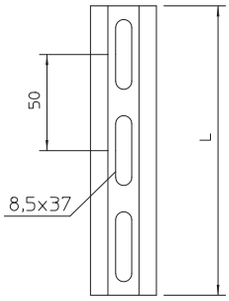
Type	Dimension W x H mm	Dim. L mm
AML3518UP2000BK	35 x 18	2000

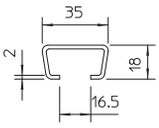
St FS

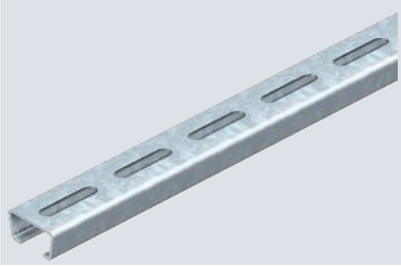
16,5 H

Anchor rail AMS3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518P2000FS	2000	2		2	115.000	**1112708**







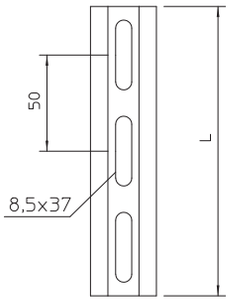
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

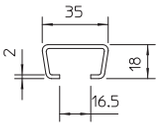
St FT

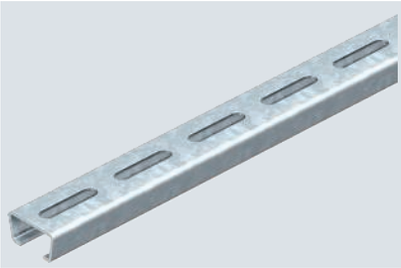
16,5 H

Anchor rail AMS3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518P2000FT	2000	2		2	122.000	**1112759**







Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

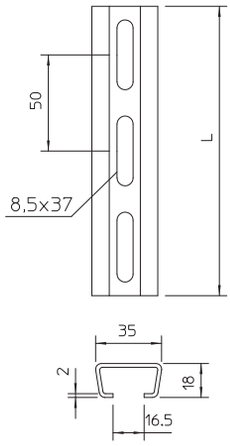
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Anchor rail AMS3518, slot 16.5 mm, perforated

VA 2B

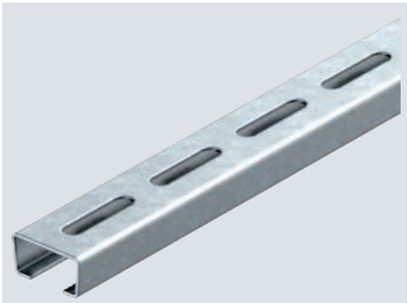
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P1000A2	1000	2	1	107.000	**1118421**
AMS3518P2000A2	2000	2	2	107.000	**1112709**



Anchor rail AML3518, slot 16.5 mm, perforated

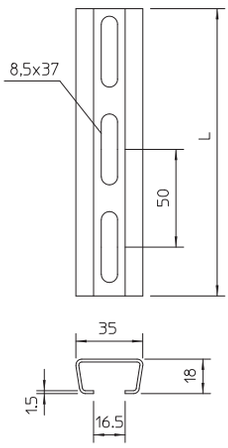
St FT



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
AML3518P0200FT	200	1.5	25	17.800	**1119696**
AML3518P0300FT	300	1.5	25	26.700	**1119693**
AML3518P0400FT	400	1.5	10	35.600	**1119690**
AML3518P0500FT	500	1.5	10	44.500	**1119687**
AML3518P0600FT	600	1.5	10	53.400	**1119684**
AML3518P0700FT	700	1.5	10	62.300	**1119681**
AML3518P0800FT	800	1.5	10	71.200	**1119678**

Dimensions



Type	Dimension W x H mm	Dim. L mm
AML3518P0200FT	35 x 18	200
AML3518P0300FT	35 x 18	300
AML3518P0400FT	35 x 18	400
AML3518P0500FT	35 x 18	500
AML3518P0600FT	35 x 18	600
AML3518P0700FT	35 x 18	700
AML3518P0800FT	35 x 18	800

MS4121 mounting rail

Heavy-duty C profile rail for the individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Slot width 22 mm

Double version (clinched)

Slot width 22 mm

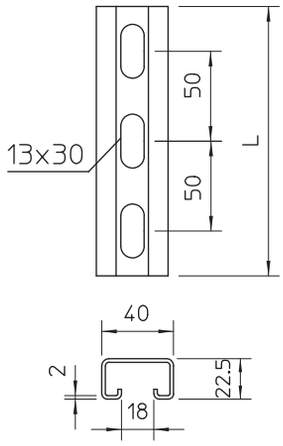
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

MS4022 mounting rail, heavy duty, slot 18 mm, perforated

St FT

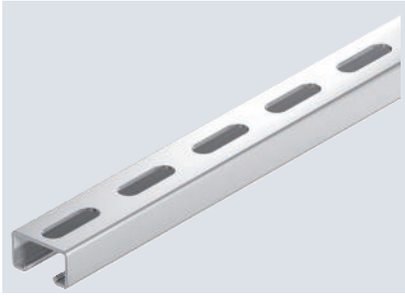
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000FT	2000	2	2	152.500	**1121979**
MS4022P6000FT	6000	2	6	152.500	**1121898**



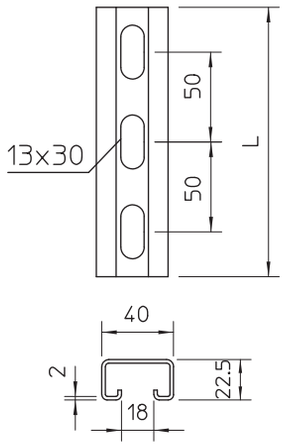
MS4022 mounting rail, heavy duty, slot 18 mm, perforated

VA 2B



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

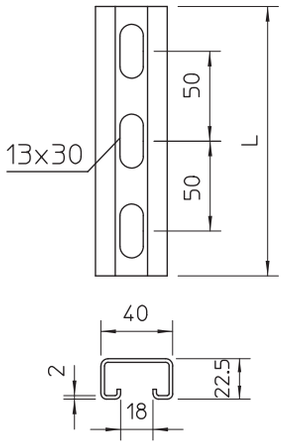
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A2	2000	2	2	152.500	**1121960**
MS4022P6000A2	6000	2	6	152.500	**1121901**



VA 2B

Mounting rail MS4022, heavy-duty, slot 18 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A4	2000	2	2	147.600	**1121963**
MS4022P6000A4	6000	2	6	147.600	**1121903**

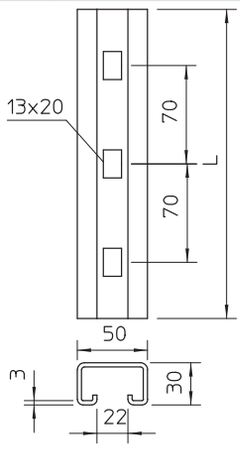


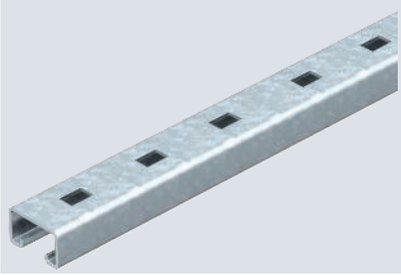
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

St FT

MS5030 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
MS5030RP0220FT	220	3	1	69.000	**6349404**
MS5030RP0260FT	260	3	1	81.500	**6349412**
MS5030RP0300FT	300	3	1	94.000	**6349439**
MS5030RP0340FT	340	3	1	107.000	**6349447**
MS5030RP0380FT	380	3	1	119.000	**6349463**



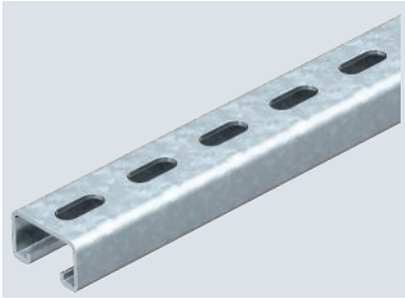


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

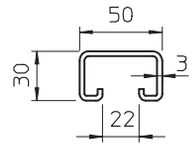
MS5030 mounting rail, slot 22 mm, perforated

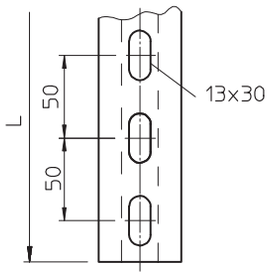
St VA VA FT 2B



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

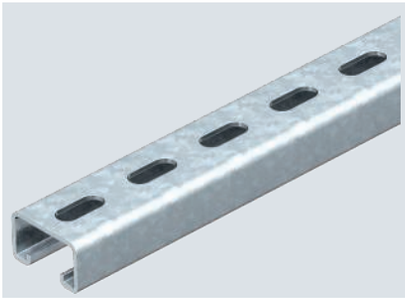
Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS5030P1000FT	1000	3		1	282.500	**1121448**
MS5030P2000FT	2000	3		2	282.500	**1121464**
MS5030P3000FT	3000	3		3	308.100	**1121466**
MS5030P6000FT	6000	3		6	282.500	**1121472**
MS5030P2000A2	2000	3		2	280.000	**1121480**
MS5030P6000A2	6000	3		6	282.500	**1121499**
MS5030P2000A4	2000	3		2	285.000	**1121465**
MS5030P6000A4	6000	3		6	285.000	**1121473**





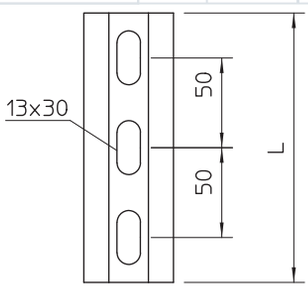
MS5030 mounting rail, slot 22 mm, perforated

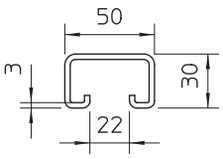
St FT



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
MS5030P0200FT	200	3		1	57.000	**1121391**
MS5030P0300FT	300	3		1	85.000	**1121243**
MS5030P0400FT	400	3		1	115.000	**1121278**
MS5030P0500FT	500	3		1	141.000	**1121405**
MS5030P0600FT	600	3		1	170.000	**1121294**
MS5030P0700FT	700	3		1	198.000	**1121332**
MS5030P0800FT	800	3		1	235.000	**1121308**
MS5030P0900FT	900	3		1	255.000	**1121336**
MS5030P1500FT	1500	3		1	424.000	**1121363**



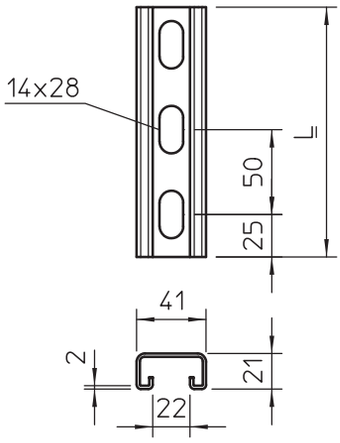


St FS FT
22 U E30 E90

MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MS4121P2000FS	2000	2		2	175.000	1122918
MS4121P3000FS	3000	2		3	141.900	1122920
MS4121P6000FS	6000	2		6	141.900	1122922
MS4121P2000FT	2000	2		2	183.000	1122923
MS4121P3000FT	3000	2		3	151.300	1122924
MS4121P6000FT	6000	2		6	184.000	1122926

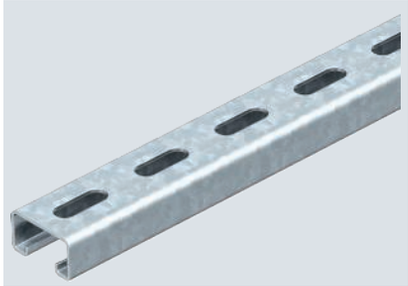
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



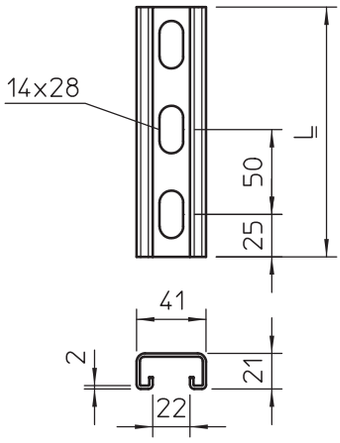
St FS FT
22 U

MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
MS4121P0200FS	200	2		1	35.000	1122950
MS4121P0300FS	300	2		1	52.500	1122951
MS4121P0400FS	400	2		1	70.000	1122953
MS4121P0500FS	500	2		1	87.500	1122955
MS4121P0600FS	600	2		1	105.000	1122956
MS4121P0700FS	700	2		1	122.500	1122958
MS4121P0800FS	800	2		1	134.000	1122957
MS4121P0900FS	900	2		1	126.800	1122959
MS4121P0200FT	200	2		1	35.100	1122933
MS4121P0300FT	300	2		1	53.000	1122934
MS4121P0400FT	400	2		1	70.000	1122935
MS4121P0500FT	500	2		1	87.000	1122936
MS4121P0600FT	600	2		1	105.000	1122937
MS4121P0700FT	700	2		1	123.000	1122938
MS4121P0800FT	800	2		1	140.000	1122939
MS4121P0900FT	900	2		1	158.000	1122940



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.



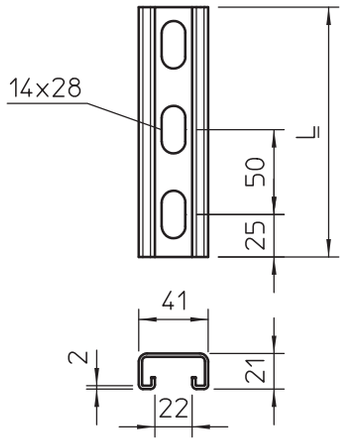
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

MS4121 mounting rail, slot 22 mm, perforated

VA VA 2B

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS4121P2000A2	2000	2		2	140.950	**1122925**
MS4121P3000A2	3000	2		3	185.340	**1122928**
MS4121P6000A2	6000	2		6	140.950	**1122929**
MS4121P2000A4	2000	2		2	175.000	**1122476**
MS4121P3000A4	3000	2		3	172.670	**1122931**
MS4121P6000A4	6000	2		6	172.670	**1122932**

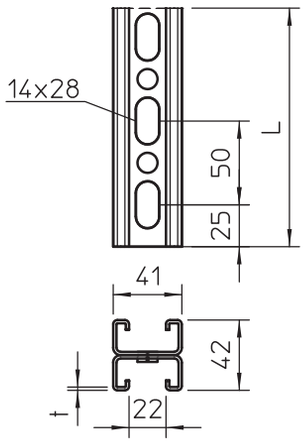


MS4142 mounting rail, slot 22 mm, double, perforated

St VA FS FT 2B

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

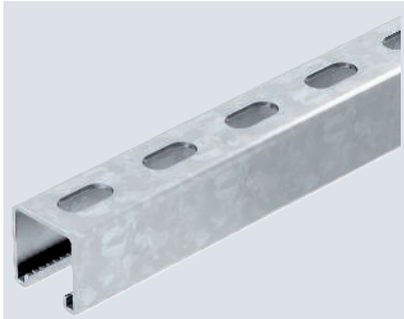
Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS4142P3000FS	3000	2		3	303.000	**1122947**
MS4142P6000FS	6000	2		6	303.000	**1122948**
MS4142P3000FT	3000	2		3	303.000	**1122944**
MS4142P6000FT	6000	2		6	303.000	**1122945**
MS4142P6000A2	6000	2		6	283.800	**1122954**

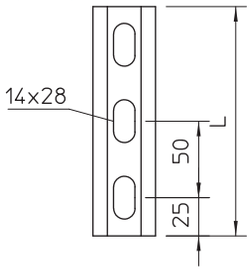


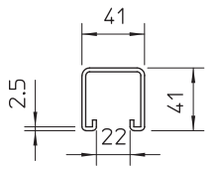
St VA FS FT 2B

MS4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MS4141P1000FS	1000	2.5		1	247.500	1122908
MS4141P3000FS	3000	2.5		3	247.500	1122910
MS4141P6000FS	6000	2.5		6	247.500	1122912
MS4141P1000FT	1000	2.5		1	261.400	1122606
MS4141P3000FT	3000	2.5		3	261.400	1122622
MS4141P6000FT	6000	2.5		6	260.670	1122657
MS4141P3000A4	3000	2.5		3	247.500	1123049
MS4141P6000A4	6000	2.5		6	247.500	1123051





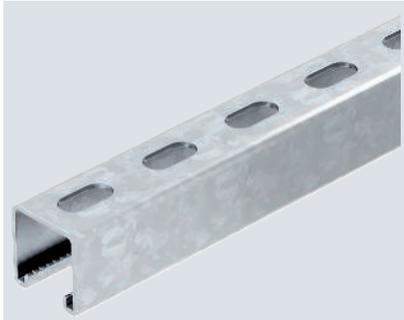


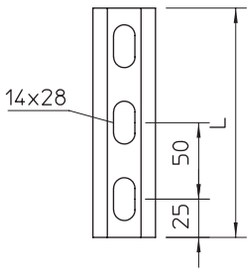
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

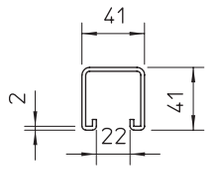
St VA VA FS FT 2B

MSL4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MSL4141P1000FS	1000	2		1	201.100	1122970
MSL4141P3000FS	3000	2		3	201.100	1122972
MSL4141P6000FS	6000	2		6	201.100	1122974
MSL4141P1000FT	1000	2		1	214.700	1122962
MSL4141P3000FT	3000	2		3	214.700	1122964
MSL4141P6000FT	6000	2		6	214.700	1122966
MSL4141P1000A2	1000	2		1	201.100	1122978
MSL4141P3000A2	3000	2		3	201.100	1122980
MSL4141P6000A2	6000	2		6	201.100	1122982
MSL4141P1000A4	1000	2		1	201.100	1122988
MSL4141P3000A4	3000	2		3	201.100	1122990
MSL4141P6000A4	6000	2		6	201.100	1122992





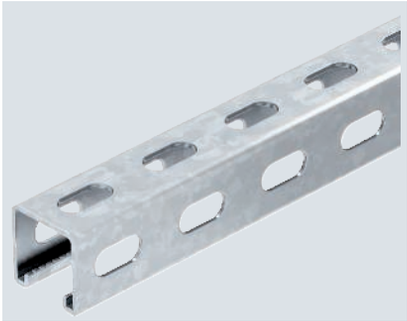


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

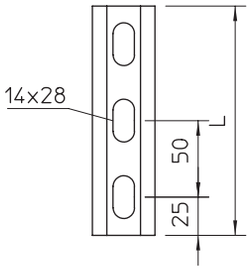
MS4141 mounting rail, slot 22 mm, side perforation

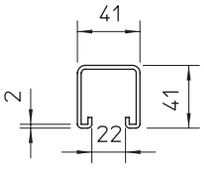
St VA VA FS FT 2B



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MSL4141PP1000FS	1000	2	1	179.400	1123008
MSL4141PP3000FS	3000	2	3	179.400	1123010
MSL4141PP6000FS	6000	2	6	179.400	1123012
MSL4141PP1000FT	1000	2	1	191.500	1123001
MSL4141PP3000FT	3000	2	3	191.500	1123003
MSL4141PP6000FT	6000	2	6	191.500	1123005
MSL4141PP1000A2	1000	2	1	179.400	1123014
MSL4141PP3000A2	3000	2	3	179.400	1123016
MSL4141PP6000A2	6000	2	6	179.400	1123018
MSL4141PP1000A4	1000	2	1	179.400	1123021
MSL4141PP3000A4	3000	2	3	179.400	1123023
MSL4141PP6000A4	6000	2	6	179.400	1123025



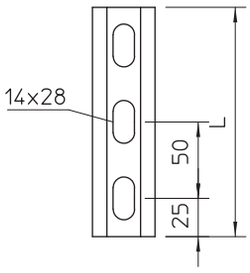


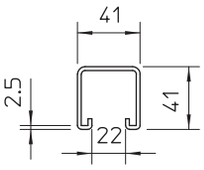
MS4141 mounting rail, slot 22 mm, side perforation

St FS FT

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4141PP1000FS	1000	2.5	1	281.000	1122481
MS4141PP3000FS	3000	2.5	3	218.000	1122914
MS4141PP6000FS	6000	2.5	6	218.340	1122916
MS4141PP1000FT	1000	2.5	1	225.000	1122479
MS4141PP3000FT	3000	2.5	3	233.340	1122483
MS4141PP6000FT	6000	2.5	6	225.000	1122487

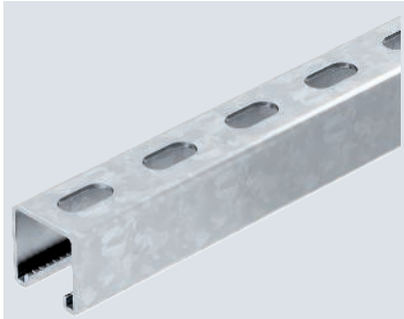


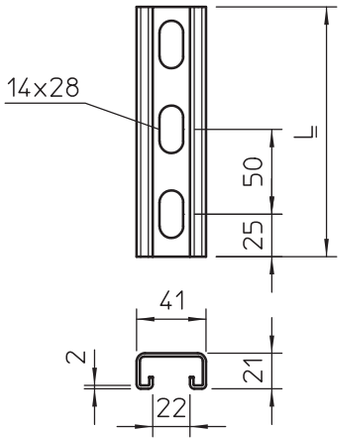


St FS

MSL4141 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm			Pack Piece	Weight kg/100 pc.	Item no.
MSL4141P0200FS	200	2			1	40.400	**1123262**
MSL4141P0300FS	300	2			1	60.600	**1123264**
MSL4141P0400FS	400	2			1	80.800	**1123266**
MSL4141P0500FS	500	2			1	101.000	**1123268**
MSL4141P0600FS	600	2			1	121.000	**1123270**
MSL4141P0700FS	700	2			1	141.000	**1123272**
MSL4141P0800FS	800	2			1	162.000	**1123274**
MSL4141P0900FS	900	2			1	182.000	**1123276**





Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

St FT

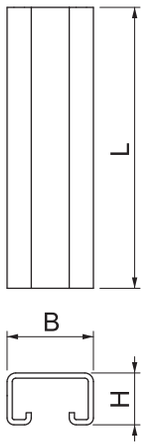
MS5030 mounting rail, slot 22 mm

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS5030UP2000FT	2000	3		20	307.000	**1121524**
MS5030UP6000FT	6000	3		6	307.000	**1121529**

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Dimension W x H mm	Dim. L mm
MS5030UP2000FT	50x30	2000
MS5030UP6000FT	50x30	6000

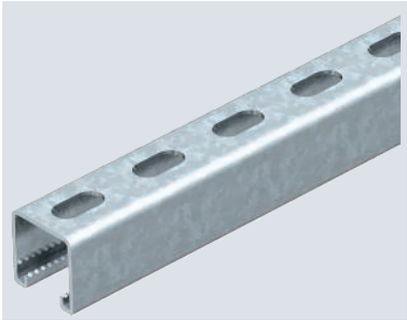
Dimensions



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

MS4141 mounting rail, slot 22 mm, perforated

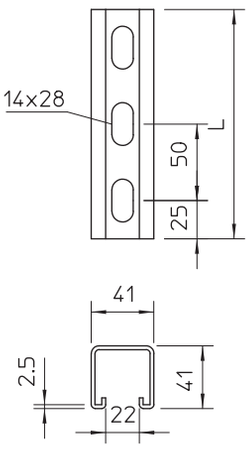
St FT



Type	Length mm	Material thickness mm			Pack Piece	Weight kg/100 pc.	Item no.
MS4141P0200FT	200	2.5			1	52.400	**1122509**
MS4141P0300FT	300	2.5			1	78.500	**1122517**
MS4141P0400FT	400	2.5			1	104.700	**1122525**
MS4141P0500FT	500	2.5			1	130.800	**1122533**
MS4141P0600FT	600	2.5			1	156.900	**1122541**
MS4141P0700FT	700	2.5			1	183.000	**1122568**
MS4141P0800FT	800	2.5			1	209.200	**1122576**
MS4141P0900FT	900	2.5			1	235.300	**1122584**

Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Dimensions



Type	Dimension W x H mm	Dim. L mm
MS4141P0200FT	41x41	200
MS4141P0300FT	41x41	300
MS4141P0400FT	41x41	400
MS4141P0500FT	41x41	500
MS4141P0600FT	41x41	600
MS4141P0700FT	41x41	700
MS4141P0800FT	41x41	800
MS4141P0900FT	41x41	900

St VA FS FT 2B

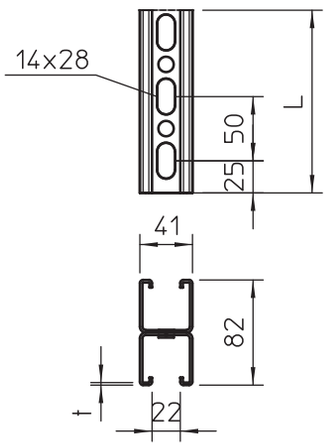
MS4182 mounting rail, slot 22 mm, double, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4182P3000FS	3000	2	3	402.200	**1122676**
MS4182P6000FS	6000	2	6	402.200	**1122678**
MS4182P3000FT	3000	2	3	402.200	**1122671**
MS4182P6000FT	6000	2	6	402.200	**1122673**
MS4182P3000A2	3000	2	3	402.200	**1122682**
MS4182P6000A2	6000	2	6	402.200	**1122684**

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

Type	Dimension W x H mm	Dim. L mm
MS4182P3000FS	41x82	3000
MS4182P6000FS	41x82	6000

Dimensions

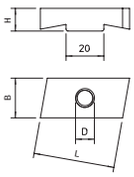


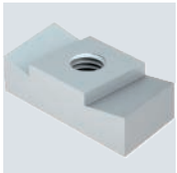
Accessories, mounting rails

St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 ZL	35	17	10	M6	50	3.750	**1147106**
MS40SN M8 ZL	35	17	10	M8	50	3.600	**1147110**
MS40SN M10 ZL	35	17	10	M10	50	3.400	**1147114**
MS40SN M12 ZL	35	17	10	M12	50	3.160	**1147118**



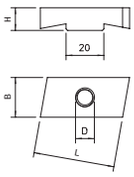


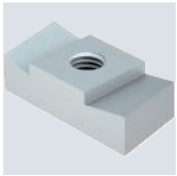
Slide nut for use with MS4022 profile rail

A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 A4	35	17	10	M6	50	3.750	**1147126**
MS40SN M8 A4	35	17	10	M8	50	3.600	**1147130**
MS40SN M10 A4	35	17	10	M10	50	3.400	**1147134**
MS40SN M12 A4	35	17	10	M12	50	3.160	**1147138**



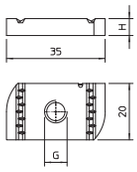


Slide nut for use with MS4022 profile rail

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Slide nut

St ZL

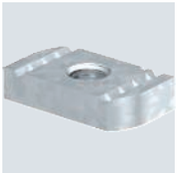


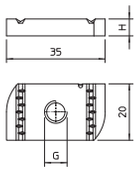
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 ZL	35	20	6	M6	50	2.880	**1147206**
MS41SN M8 ZL	35	20	6	M8	50	2.800	**1147210**
MS41SN M10 ZL	35	20	8	M10	50	3.650	**1147214**
MS41SN M12 ZL	35	20	9.5	M12	50	4.200	**1147218**

Slide nut for use with MS4121 and MS4141 profile rails

Slide nut

A4 2B



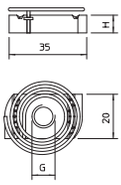


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 A4	35	20	6	M6	50	2.880	**1147226**
MS41SN M8 A4	35	20	6	M8	50	2.800	**1147230**
MS41SN M10 A4	35	20	8	M10	50	3.650	**1147234**
MS41SN M12 A4	35	20	9.5	M12	50	4.200	**1147238**

Slide nut for use with MS4121 and MS4141 profile rails

Slide nut with spring

St F

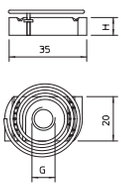


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 F	35	20	6	M6	50	3.200	**1147306**
MS41SNF M8 F	35	20	6	M8	50	3.150	**1147310**
MS41SNF M10 F	35	20	8	M10	50	4.000	**1147314**
MS41SNF M12 F	35	20	9.5	M12	50	4.550	**1147318**

Slide nut with spring for use with MS4121 and MS4141 profile rails

Slide nut with spring

A4 2B

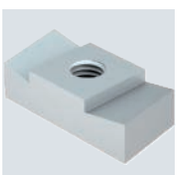


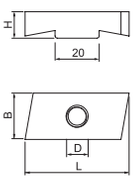
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 A4	35	20	6	M6	50	3.200	**1147336**
MS41SNF M8 A4	35	20	6	M8	50	3.150	**1147340**
MS41SNF M10 A4	35	20	8	M10	50	4.000	**1147344**
MS41SNF M12 A4	35	20	9.5	M12	50	4.550	**1147348**

Slide nut with spring for use with MS4121 and MS4141 profile rails

Slide nut

St ZL





Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 ZL	43	21	12	M6	50	6.700	**1147156**
MS50SN M8 ZL	43	21	12	M8	50	6.550	**1147160**
MS50SN M10 ZL	43	21	12	M10	50	6.350	**1147164**
MS50SN M12 ZL	43	21	12	M12	50	6.100	**1147168**

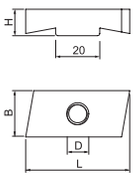
Slide nut for use with MS5030 profile rail

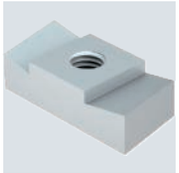
A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 A4	43	21	12	M6	50	6.700	**1147172**
MS50SN M8 A4	43	21	12	M8	50	6.550	**1147186**
MS50SN M10 A4	43	21	12	M10	50	6.350	**1147190**
MS50SN M12 A4	43	21	12	M12	50	6.100	**1147194**

Slide nut for use with MS5030 profile rail



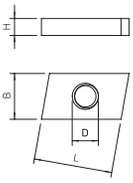


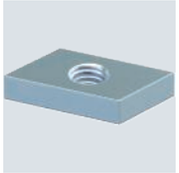
St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 ZL	26	16.5	4	M6	100	1.212	**1147056**
ACMSN M8 ZL	26	16.5	5	M8	100	1.640	**1147060**
ACMSN M10 ZL	26	16.5	6	M10	100	1.300	**1147064**

Slide nut for use with CM3015, CM3518 and AM3518 profile rails



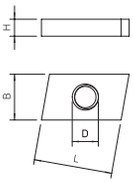


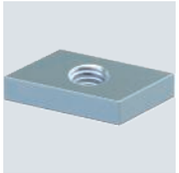
A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 A4	26	16.5	4	M6	100	1.650	**1147076**
ACMSN M8 A4	26	16.5	5	M8	100	1.600	**1147080**
ACMSN M10 A4	26	16.5	6	M10	100	1.500	**1147084**

Slide nut for use with CM3015, CM3518 and AM3518 profile rails



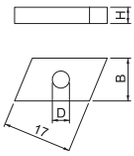


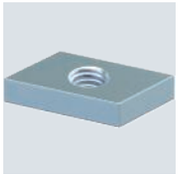
St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20SN M4 ZL	17	10.5	4	M4	100	0.525	**1147008**
CL20SN M5 ZL	17	10.5	4	M5	100	0.508	**1147012**
CL20SN M6 ZL	17	10.5	4	M6	100	0.503	**1147016**

Slide nut for use with CL2008 profile rail



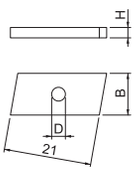


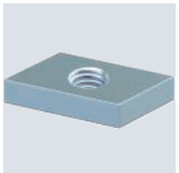
St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27SN M4 ZL	21	10	2.5	M4	100	0.400	**1147020**
CL27SN M5 ZL	24.5	13	4	M5	100	0.870	**1147024**
CL27SN M6 ZL	24.5	13	4	M6	100	0.850	**1147028**
CL27SN M8 ZL	24.5	13	4	M8	100	0.800	**1147032**

Slide nut for use with CL2712 profile rail



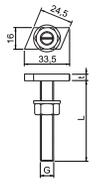


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Hook-head screw

St ZL

18



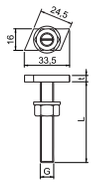
Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 ZL	35	17	50	4.800	**1148106**
MS40HB M8x30 ZL	35	17	50	5.650	**1148110**
MS40HB M8x60 ZL	35	17	25	6.850	**1148114**
MS40HB M10x30 ZL	35	14	50	6.000	**1148118**
MS40HB M10x60 ZL	35	14	25	7.850	**1148122**
MS40HB M12x30 ZL	35	14	50	7.550	**1148126**
MS40HB M12x60 ZL	35	14	25	10.250	**1148130**

Hook-head screw for use with MS4022 profile rail

Hook-head screw

A4 2B

18



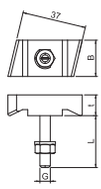
Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 A4	35	17	50	4.800	**1148146**
MS40HB M8x30 A4	35	17	50	5.650	**1148150**
MS40HB M8x60 A4	35	17	25	6.850	**1148154**
MS40HB M10x30 A4	35	14	50	6.000	**1148160**
MS40HB M10x60 A4	35	14	25	7.850	**1148164**
MS40HB M12x30 A4	35	14	50	7.550	**1148168**
MS40HB M12x60 A4	35	14	25	9.320	**1148170**

Hook-head screw for use with MS4022 profile rail

Hook-head screw

St ZL

22



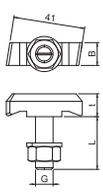
Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 ZL	43	21	12	50	7.800	**1148206**
MS50HB M8x30 ZL	43	21	12	50	8.700	**1148210**
MS50HB M8x60 ZL	43	21	12	25	9.900	**1148214**
MS50HB M10x30 ZL	43.3	13	10	50	7.700	**1148218**
MS50HB M10x60 ZL	43.3	13	10	25	9.450	**1148222**
MS50HB M12x30 ZL	43.3	13	10	50	9.000	**1148226**
MS50HB M12x60 ZL	43.3	13	10	25	11.650	**1148230**

Hook-head screw for use with MS5030 profile rail

Hook-head screw

A4 2B

22



Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 A4	43	21	12	M6x30mm	50	7.800	**1148256**
MS50HB M8x30 A4	43	21	12	M8x30mm	50	8.700	**1148260**
MS50HB M8x60 A4	43	21	12	M8x60mm	25	9.900	**1148264**
MS50HB M10x30 A4	43.3	13	10	M10x30mm	50	7.700	**1148268**
MS50HB M10x60 A4	43.3	13	10	M10x60mm	25	9.450	**1148272**
MS50HB M12x30 A4	43.3	13	10	M12x30mm	50	9.000	**1148276**
MS50HB M12x60 A4	43.3	13	10	M12x60mm	25	11.650	**1148280**

Hook-head screw for use with MS5030 profile rail

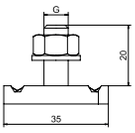
St ZL

22

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 ZL	35	20	6	M 6 x 30	3.3	50	4.000	1148306
MS41HB M8x30 ZL	35	20	6	M 8 x 30	8	50	4.850	1148310
MS41HB M8x60 ZL	35	20	6	M 8 x 60	8	25	6.000	1148314
MS41HB M8x100 ZL	35	20	6	M 8 x 100	8	20	7.600	1148318
MS41HB M10x30 ZL	35	20	8	M 10 x 30	16	50	7.400	1148322
MS41HB M10x60 ZL	35	20	8	M 10 x 60	16	25	9.250	1148326
MS41HB M10x100ZL	35	20	8	M 10 x 100	16	20	11.700	1148330
MS41HB M12x30 ZL	35	20	9.5	M 12 x 30	27	50	9.750	1148334
MS41HB M12x60 ZL	35	20	9.5	M 12 x 60	27	25	12.400	1148338
MS41HB M12x100ZL	35	20	9.5	M 12 x 100	27	20	15.950	1148342

Hammer-head bolt for use with MS4121 and MS4141 profile rails

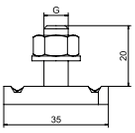


A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 A4	35	20	6	M 6 x 30	3.4	50	4.000	1148406
MS41HB M8x30 A4	35	20	6	M 8 x 30	6.2	50	4.800	1148410
MS41HB M8x60 A4	35	20	6	M 8 x 60	6.2	25	6.000	1148414
MS41HB M8x100 A4	35	20	6	M 8 x 100	6.2	20	7.550	1148418
MS41HB M10x30 A4	35	20	8	M 10 x 30	9.9	50	7.350	1148422
MS41HB M10x60 A4	35	20	8	M 10 x 60	9.9	25	9.200	1148426
MS41HB M10x100A4	35	20	8	M 10 x 100	9.9	20	11.650	1148430
MS41HB M12x30 A4	35	20	9.5	M 12 x 30	14.4	50	9.700	1148434
MS41HB M12x60 A4	35	20	9.5	M 12 x 60	14.4	25	12.400	1148438
MS41HB M12x100A4	35	20	9.5	M 12 x 100	14.4	20	15.900	1148442

Hammer-head bolt for use with MS4121 and MS4141 profile rails

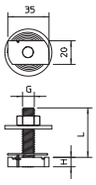


St FT

Hammer-head bolt with spring

Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 FT	35	20	50	5.200	1148376
MS41HBF M8x60 FT	35	20	25	6.300	1148380
MS41HBF M10x30FT	35	20	50	7.700	1148384
MS41HBF M10x60FT	35	20	25	9.550	1148388
MS41HBF M12x30FT	35	20	50	10.000	1148392
MS41HBF M12x60FT	35	20	25	12.700	1148396

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails



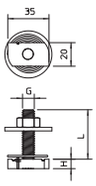
A4 2B

22

Hammer-head bolt with spring

Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 A4	35	20	50	4.800	1148476
MS41HBF M8x60 A4	35	20	25	5.950	1148480
MS41HBF M10x30A4	35	20	50	7.350	1148484
MS41HBF M10x60A4	35	20	25	9.200	1148488
MS41HBF M12x30A4	35	20	50	9.700	1148492
MS41HBF M12x60A4	35	20	25	12.400	1148496

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

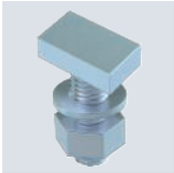


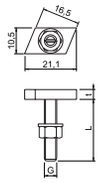
Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Hammer-head bolt

St ZL

11





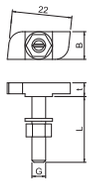
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20HB M5x25 ZL	21.1	10.5	4	M 5 x 25mm	50	1.100	**1148008**
CL20HB M6x25 ZL	21.1	10.5	4	M 6 x 25mm	50	1.420	**1148012**
CL20HB M8x25 ZL	21.1	10.5	4	M 8 x 25mm	50	2.150	**1148016**

Hammer-head bolt for use with CL2008 profile rail

Hammer-head bolt

St ZL

11



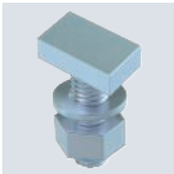
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27HB M5x25 ZL	23	10.1	4	M 5 x 25mm	50	1.250	**1148020**
CL27HB M6x25 ZL	23	10.1	4	M 6 x 25mm	50	1.570	**1148024**
CL27HB M8x25 ZL	23	10.1	4	M 8 x 25mm	50	2.300	**1148028**

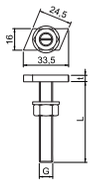
Hammer-head bolt for use with CL2712 profile rail

Hammer-head bolt

St ZL

17





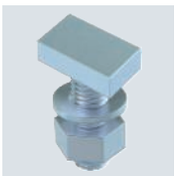
Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 ZL	33.5	16	5	50	2.600	**1148056**
ACMHB M8x30 ZL	33.5	16	5	50	3.197	**1148060**
ACMHB M8x60 ZL	33.5	16	5	25	4.650	**1148064**
ACMHB M10x30 ZL	33.5	16	6	50	4.950	**1148068**
ACMHB M10x60 ZL	33.5	16	6	25	6.750	**1148072**

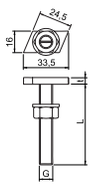
Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Hammer-head bolt

A4 2B

17





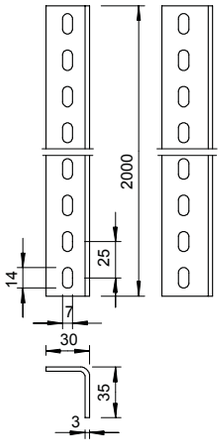
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 A4	33.5	16	5	M 6 x 30mm	50	2.600	**1148076**
ACMHB M8x30 A4	33.5	16	5	M 8 x 30mm	50	3.450	**1148080**
ACMHB M8x60 A4	33.5	16	5	M 8 x 60mm	25	4.650	**1148084**
ACMHB M10x30 A4	33.5	16	6	M 10 x 30mm	50	4.950	**1148088**
ACMHB M10x60 A4	33.5	16	6	M 10 x 60mm	25	6.240	**1148092**

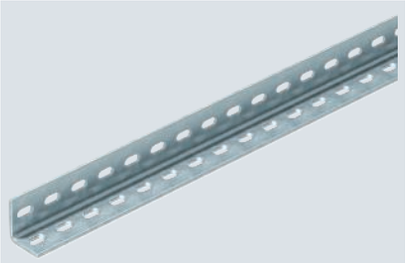
Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

St FT

Angle profile WP30/35

Type	Length mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WP 30 35 2000 FT	2000	3.00	1	257.000	**6373100**
WP 30 35 5000 FT	5000	3.00	1	643.000	**6373103**



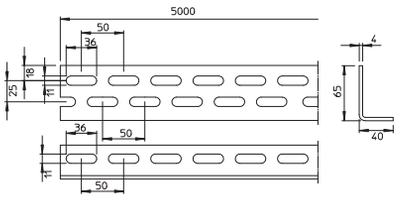


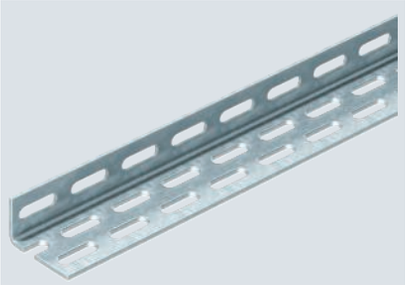
Angle profile, perforated on both sides, for creation of special support structures.

St FT

Angle profile WP40/65

Type	Length mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 FT	5000	4.00	5	250.000	**6373070**



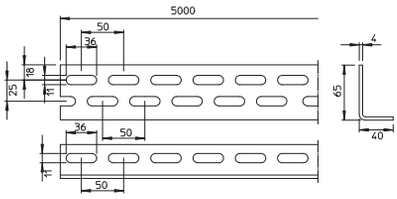


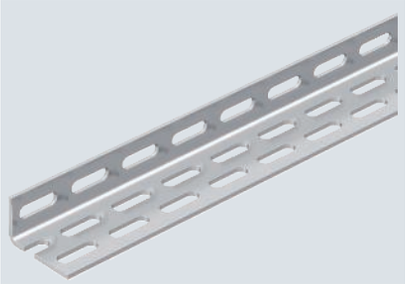
Angle profile, perforated on both sides, for creation of special support structures.

VA 2B

Angle profile WP40/65

Type	Length mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 A2	5000	4.00	5	241.600	**6373062**



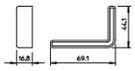


Angle profile, perforated on both sides, for creation of special support structures.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

End cap WE 40/65

PE

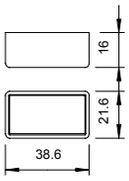


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
WPK SR OR	Pastel orange	20	0.600	**6372881**
WPK SL OR	Pastel orange	20	0.600	**6372898**

End cap to cover the ends of angle profile, type WE 40/65.

End cap CM3518/AM3518

PE

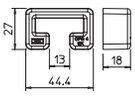


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 SK	Pastel orange	50	0.384	**1124502**

End cap for profile rail types CM3518 and AM3518.

End cap MS4022

PE

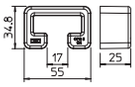


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4022 SK	Pastel orange	25	0.647	**1124555**

End caps for profile rail, type MS4022.

End cap MS5030

PE

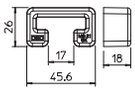


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS5030 SK	Pastel orange	25	1.147	**1124563**

End caps for profile rail, type MS5030.

End cap MS4121

PE



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 SK	Pastel orange	25	0.611	**1122902**

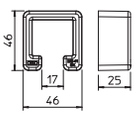
End cap for profile rail, type MS4121.

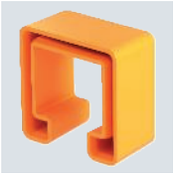
PE

End cap MS4141

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 SK	Pastel orange	25	1.212	**1122900**

End cap for profile rail, type MS4141.



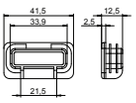


PE

End cap MS4121

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 EK	Pastel orange	50	0.645	**1122904**

End cap for profile rail, type MS4121.

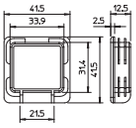


PE

End cap MS4141

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 EK	Pastel orange	50	0.670	**1122906**

End cap for profile rail, type MS4141.

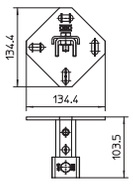


St FT

Wall, floor and ceiling bracket with 3 holes

Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
WBDHE 41 FT	Perforated	134x110	5	102	10	73.000	**1123191**

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.

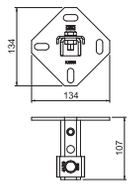


VA VA 2B

Wall, floor and ceiling bracket with 3 holes

Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
WBDHE 41 A2	Perforated	134x110	5	102	10	73.000	**1123195**
WBDHE 41 A4	Perforated	134x110	5	102	10	73.000	**1123197**

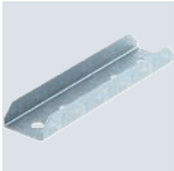
The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the mounting rails MS4141.

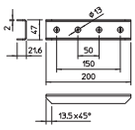


Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Connector

St FT



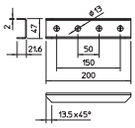


Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GVMS 4 ASV FT	With continuous perforation 13 mm	10	24.900	**1124641**

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connector

VA VA 2B

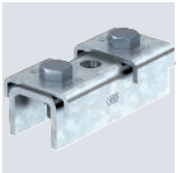


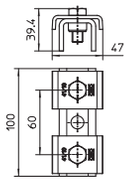
Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GVMS 4 ASV A2	With continuous perforation 13 mm	10	24.900	**1124681**
GVMS 4 ASV A4	With continuous perforation 13 mm	10	24.900	**1124715**

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Rail connector SV with 3 holes

St FT





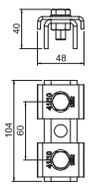
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
SVE 41 FT	Perforated	47x39,4	4	100	10	42.000	**1123121**

The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

Rail connector SV with 3 holes

VA VA 2B



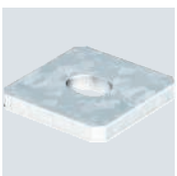
Type	Version	Dimension W x H mm	Material thickness mm	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
SVE 41 A2	Perforated	47x39,4	4	100	10	42.000	**1123126**
SVE 41 A4	Perforated	47x39,4	4	100	10	42.000	**1123128**

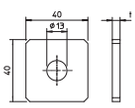
The rail connector is used to extend the mounting rail MS4141. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weak point in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 4141, and suitable hexagonal bolts included loosely.

Connection plate with 1 hole

St FT





Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP FT	5	10	7.120	**1124643**

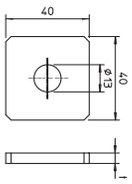
Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

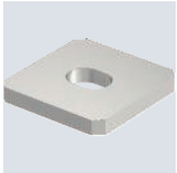
VA 2B

Connection plate with 1 hole

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP A2	4	10	4.450	**1124683**

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.



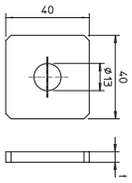


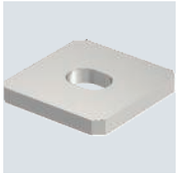
VA VA 2B

Connection plate with 1 hole

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 1 VP A2	4	10	4.450	**1124683**
GMS 1 VP A4	4	10	4.450	**1124723**

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.



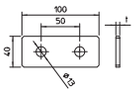


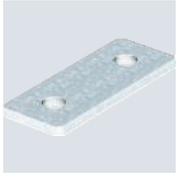
St FT

Connection plate with 2 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VP FT	5	10	14.000	**1124645**

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



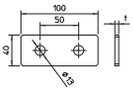


VA VA 2B

Connection plate with 2 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VP A2	4	10	11.500	**1124685**
GMS 2 VP A4	4	10	11.500	**1124725**

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

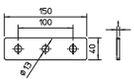


VA 2B

Connection plate with 3 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP A2	4	20	17.200	**1124687**

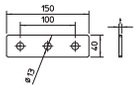
Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Connection plate with 3 holes

St FT

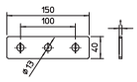


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP FT	5	20	24.010	1124647

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 3 holes

VA VA 2B

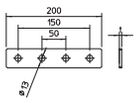


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP A2	4	20	17.200	1124687
GMS 3 VP A4	4	20	17.200	1124727

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 4 holes

St FT

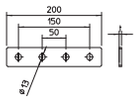


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP FT	5	10	35.580	1124649

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 4 holes

VA VA 2B

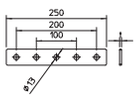


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP A2	4	10	23.300	1124689
GMS 4 VP A4	4	10	23.300	1124729

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate with 5 holes

St FT



Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP FT	5	10	40.000	1124651

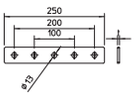
Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

VA VA 2B

Connection plate with 5 holes

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP A2	4	10	28.900	**1124691**
GMS 5 VP A4	4	10	28.900	**1124731**

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

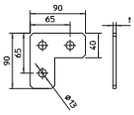


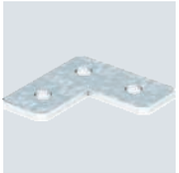
St FT

Connection plate, L-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP L FT	5	10	25.000	**1124653**

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.



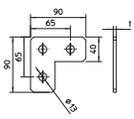


VA VA 2B

Connection plate, L-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VP L A2	4	10	15.900	**1124693**
GMS 3 VP L A4	4	10	15.900	**1124733**

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

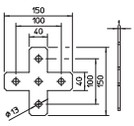


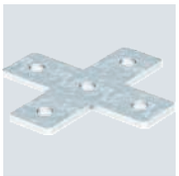
St FT

Connection plate, X-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP X FT	5	10	48.000	**1124657**

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.



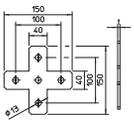


VA VA 2B

Connection plate, X-shaped

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 5 VP X A2	4	10	29.600	**1124697**
GMS 5 VP X A4	4	10	29.600	**1124737**

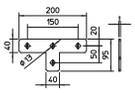
Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Connection plate, T-shaped

St FT

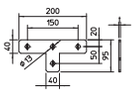


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP T FT	5	10	41.000	**1124655**

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

Connection plate, T-shaped

VA VA 2B

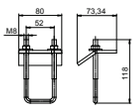


Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VP T A2	4	10	30.200	**1124695**
GMS 4 VP T A4	4	10	30.200	**1124735**

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

Clamp

St FT

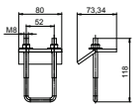


Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	**1124679**

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

Clamp

VA

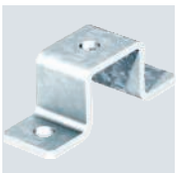


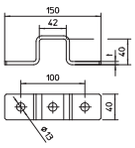
Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 A4	118	80	74	20	32.300	**1124719**

Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

Omega clamp

St FT





Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4141 FT	5	10	35.000	**1124673**

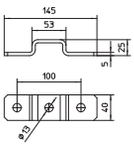
Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

St FT

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4121 FT	5	10	26.540	**1124671**

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.

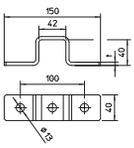


VA VA 2B

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4141 A2	5	10	25.400	**1124713**
GMS 3 O 4141 A4	5	10	25.400	**1124753**

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

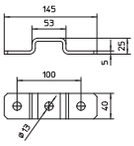


VA VA 2B

Omega clamp

Type	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 O 4121 A2	4	10	20.900	**1124711**
GMS 3 O 4121 A4	4	10	20.900	**1124751**

Fastening clamp with 3 holes for cross-wise connection of profile rails 41 x 21 mm.

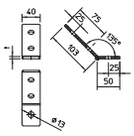


St FT

Mounting bracket, 45° with 3 holes

Type	Version	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 45 FT	45° angle	40	10	24.010	**1124667**

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

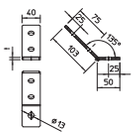


VA VA 2B

Mounting bracket, 45° with 3 holes

Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 45 A2	45° angle	10	17.200	**1124707**
GMS 3 VW 45 A4	45° angle	10	17.200	**1124747**

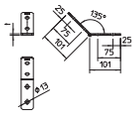
Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting bracket, 45° with 4 holes

St FT

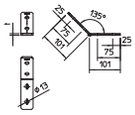


Type	Version	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 45 FT	45° angle	40		10	32.000	**1124669**

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 45° with 4 holes

VA VA 2B

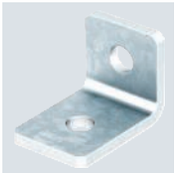


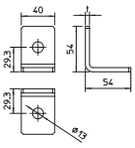
Type	Version			Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 45 A2	45° angle			10	23.300	**1124709**
GMS 4 VW 45 A4	45° angle			10	23.300	**1124749**

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 90° with 2 holes

St FT



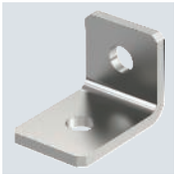


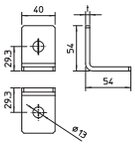
Type	Version	Shipping box Piece	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 FT	90° angle	60	5		10	14.000	**1124659**

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 2 holes

VA 2B



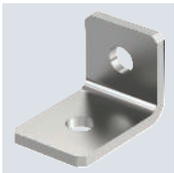


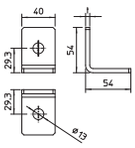
Type	Version	Shipping box Piece	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 A2	90° angle	60	4		10	11.500	**1124699**

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 2 holes

VA VA 2B





Type	Version	Shipping box Piece	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
GMS 2 VW 90 A2	90° angle	60	4		10	11.500	**1124699**
GMS 2 VW 90 A4	90° angle				10	11.500	**1124739**

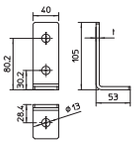
Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

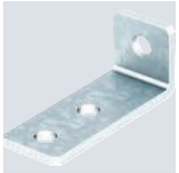
St FT

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 FT	90° angle	40	5	10	25.910	**1124661**

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



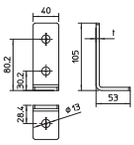


VA 2B

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 A2	90° angle	40	4	10	17.700	**1124701**

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

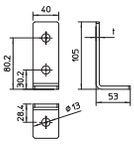


VA VA 2B

Mounting bracket, 90° with 3 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 3 VW 90 A2	90° angle	40	4	10	17.700	**1124701**
GMS 3 VW 90 A4	90° angle			10	17.700	**1124741**

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

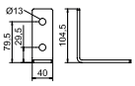


St FT

Mounting bracket, 90° with 4 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 FT	90° angle	30	5	10	32.000	**1124663**

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

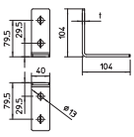


VA 2B

Mounting bracket, 90° with 4 holes

Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 A2	90° angle	30	4	10	23.300	**1124703**

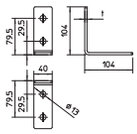
Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Mounting bracket, 90° with 4 holes

VA VA 2B

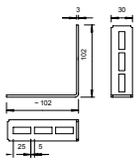


Type	Version	Shipping box Piece	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 4 VW 90 A2	90° angle	30	4	10	23.300	**1124703**
GMS 4 VW 90 A4	90° angle			10	23.300	**1124743**

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

90° mounting bracket

St FT

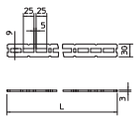


Type	Pack Piece	Weight kg/100 pc.	Item no.
CMW90FT	25	11.000	**6350151**

For stable 90° angle fastening of individual mountings.

Self-build profile

St FT

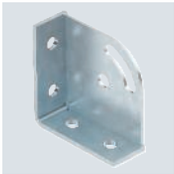


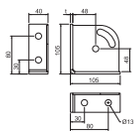
Type	Length mm	Pack m	Weight kg/100 m	Item no.
CMCP3000FT	3000	30	55.000	**6350208**

Flat iron with slots for individual mounting.

Mounting bracket, 90° with 6 holes

St VA VA FT 2B



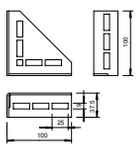


Type	Version	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 6 KD FT	90° bracket	5	10	50.900	**1124792**
GMS 6 KD A2	90° bracket	5	10	48.800	**1124796**
GMS 6 KD A4	90° bracket	5	10	48.800	**1124798**

Reinforced mounting bracket with 6 holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°. Additional fastening option for a strut at an angle of 45° with an adjusting range of +/- 30°. Can be used for angles between 15° and 75°.

Triangular node

St FT



Type	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 KD FT	25	22.000	**6350100**

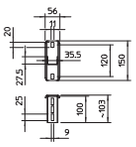
For stable corner fastening of individual mountings.

St FT

Head plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 KP FT	25	42.000	6350054

For wall and ceiling fastening of individual mountings.



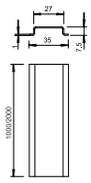
Hat profile and support rail

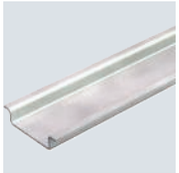
St BK

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M BK	Unperforated	1	2000	50	36.040	1115618
2069 3M BK	Unperforated	1	3000	–	36.034	1115855

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



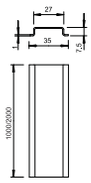


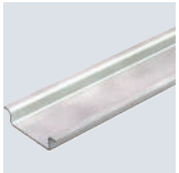
St FS

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M FS	Unperforated	1	1000	25	36.020	1115677
2069 2M FS	Unperforated	1	2000	50	36.033	1115626

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



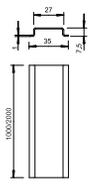


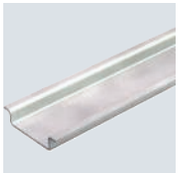
St GTP

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M GTP	Unperforated	1	1000	25	36.020	1115685
2069 2M GTP	Unperforated	1	2000	50	36.040	1115650

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



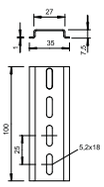


St GTP

Hat profile rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M GTPL	Perforated	1	2000	50	33.280	1115669

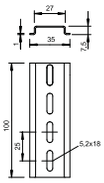
Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Hat profile rail, perforated

St FS

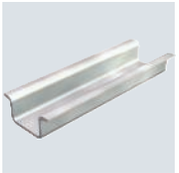


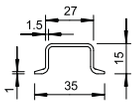
Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2069 L 2M FS	Perforated	1	2000	50		33.280	**1115804**

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Hat profile rail, unperforated

St GTP



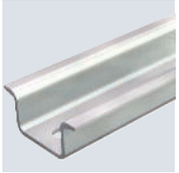


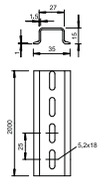
Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2069 15 1.5 GTP	Unperforated	1.5	2000	20		66.000	**1115421**

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Hat profile rail, perforated

St FS GTP



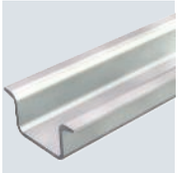


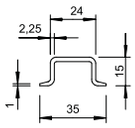
Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2069 15 1.5 FS	Perforated	1.5	2000	20		66.000	**1115460**
2069 15 1.5 GTPL	Perforated	1.5	2000	20		66.000	**1115456**

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Hat profile rail, unperforated

St GTP



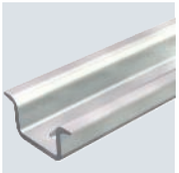


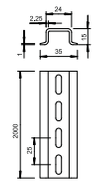
Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2069 15 2.2 GTP	Unperforated	2.25	2000	20		97.000	**1115553**

Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

Hat profile rail, perforated

St GTP





Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2069 15 2.2 GTPL	Perforated	2.25	2000	20		97.000	**1115596**

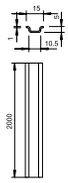
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

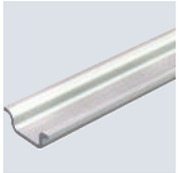
St GTP

Hat profile rail unperforated

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
46277 GTP	Unperforated	1	2000	50		12.400	**1115332**
46277 GTPL	Perforated	1	2000	50		12.400	**1115359**

Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).



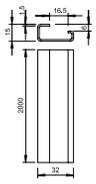


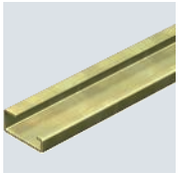
St GTP

Support rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2064 GTP 2M	Unperforated	1.5	2000	20		70.000	**1115057**

G rail G32 to DIN EN 60715 (previously DIN EN 50035).



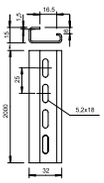


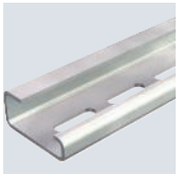
St GTP

Support rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item no.
2064 GTPL 2M	Perforated	1.5	2000	20		69.000	**1115065**

G rail G32 to DIN EN 60715 (previously DIN EN 50035).

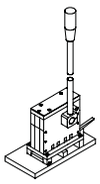




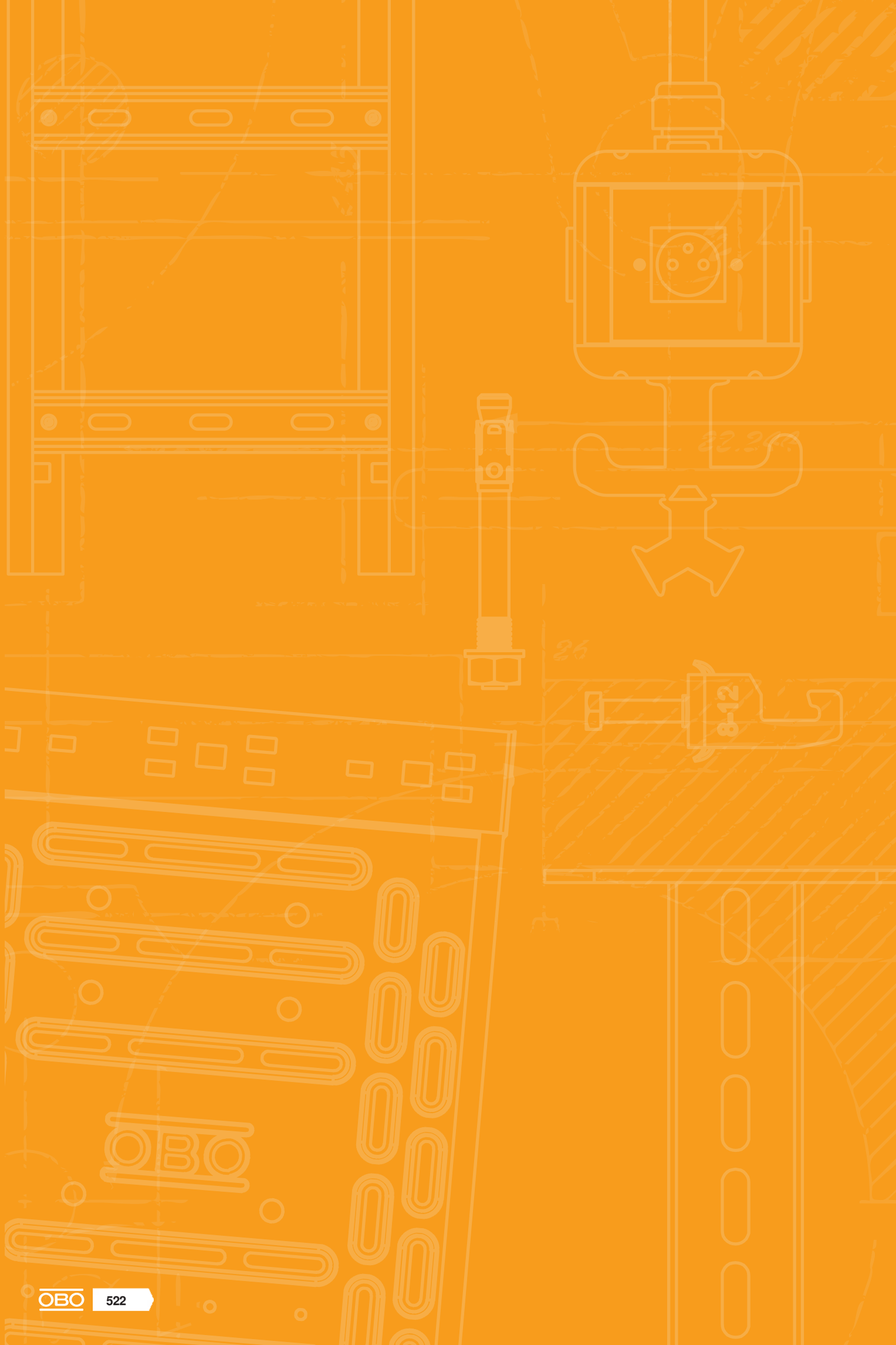
Hat profile and support rail cutting unit

Type		Pack Piece	Weight kg/100 pc.	Item no.
HTS 35		1	2,000.000	**1125036**

With the HTS 35 hat and support rail cutting device, you can cut the four most common hat and support rail profiles (types 2069..., 46277... and 2064...) to fit and without burring in accordance with DIN 50022 and DIN 50035.



Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Motor connection column

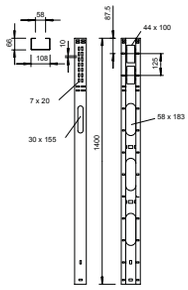
Motor connection column 524

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Motor connection column

Motor connection column

St FT



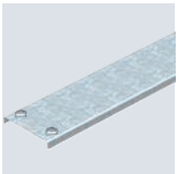
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MAS 140 10 FT	1400	1	505.000	**6356311**

Vertical motor connection column to supply electrical devices.

Accessories, motor connection columns

Cover for motor connection column

St FT

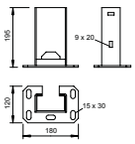


Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MASD 90 FT	900	1	160.000	**6356915**

Cover with turn buckle for motor connection column.

Column foot

St FT

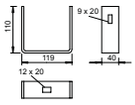


Type	Pack Piece	Weight kg/100 pc.	Item no.
SF 140 11 FT	1	200.000	**6356397**

Column foot for fastening of the motor connection column.

Mounting bracket

St FT

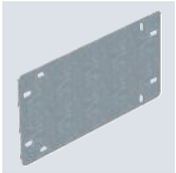


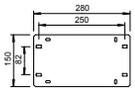
Type	Pack Piece	Weight kg/100 pc.	Item no.
BF 140 10 FT	10	50.000	**6356362**

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

Device plate GP 15

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
GP 15 28 FT	1	101.000	**6357008**

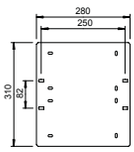
Mounting plate for fastening to motor connection column, type MAS 140/10.

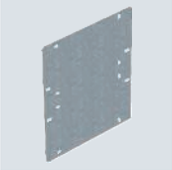
St FT

Device plate GP 31

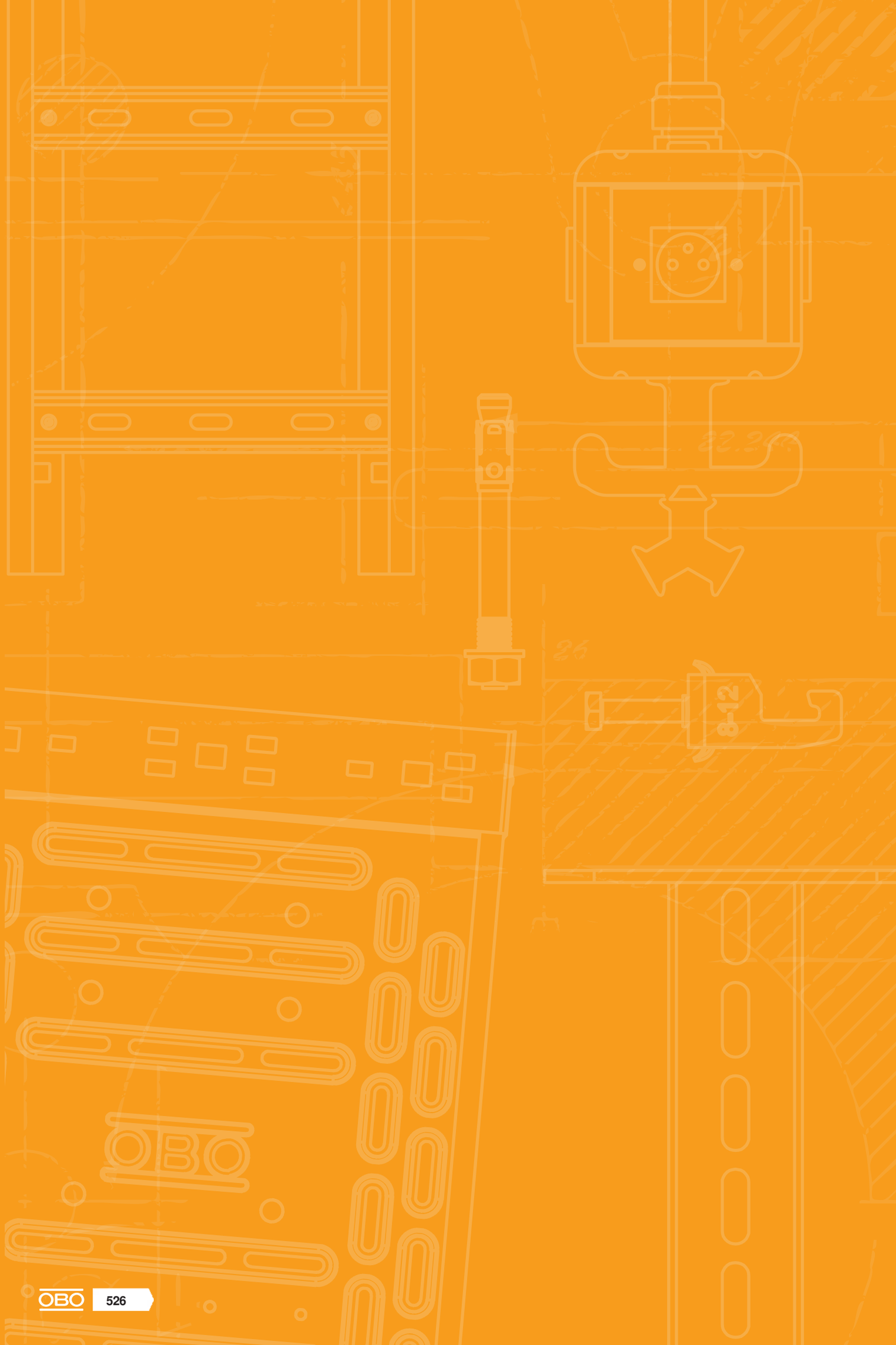
Type		Pack Piece	Weight kg/100 pc.	Item no.
GP 31 28 FT		1	210.000	6357016

Mounting plate for fastening to motor connection column, type MAS 140/10.





Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44



Directories

Test marks	528
Pictogram explanation	530
Alphabetical table of contents	534
Numeric directory	540
Type listing	552

For the latest general conditions of sale and delivery please see obo.de/vlb.

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Test marks

	American Bureau of Shipping, USA
	AENOR, Producto Certificado, Spain
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Lightning current-tested
	Lightning current-tested, Class H (100 kA)
	CEBEC, Belgium
	Canadian Standards Association, Canada
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
DIBt	Deutsches Institut für Bautechnik Berlin, Germany
	Det Norske Veritas
	ENEC Austria
	ATEX certificate for explosive areas
	ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic
	FIMKO, Finland
	Forschungs- und Materialprüfungsanstalt, Germany
	Russia, GOST The State Committee for Standards
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany
	Halogen-free; without chlorine, fluorine and bromine
	INMETRO, Brazil
	KEMA-KEUR, Netherlands
	Indication of metric products
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
	NEMKO, Norway
	AFNOR Quality symbol of the French standardisation institute

	Underwriters Laboratories Inc., USA + CSA, Canada
	Österreichischer Verband für Elektrotechnik, Austria
	INSTITUTO ITALIANO DEL MARCHO DI QUALITÁ, Italy
	RINA 1861, Ship Classification, Certification and Services
	Underwriters Laboratories Inc., USA
	SEMKO An Inchcape Testing Services Company, Sweden
	Eidgenössisches Starkstrominspektorat, Switzerland
	South African Bureau of Standards
	Shock-tested, Bundesamt für Zivilschutz, Germany
	Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	German Association of Electricians, tested safety
	5-year warranty

Pictogram explanation

Surfaces

FS	Strip galvanised
FSK	Strip galvanised/plastic-coated
DD	Strip galvanised zinc/aluminium, double dip
BK	Bright
2B	Bright, reworked
EL	Anodised
F	Hot-dip galvanised
G	Electrogalvanised
GK	Electrogalvanised/plastic-coated
GCL	Electrogalvanised, yellow-chromatised
GGP	Electrogalvanised, yellow passivated
GTP	Electrogalvanised, transparently passivated
GR	Primed
L	Painted
SG	Welding primed
FT	Hot-dip galvanised
FT SO	Hot-dip galvanised 85 µm
Cu	Copper-plated
N	Nickel-plated
ZD	Galvanised, Deltatone 500
ZDM	Galvanised, MAGNI 565
GA	Zinc-aluminium coated, Galfan
ZL	Zinc scale

Conformity symbol

CE	Communautés Européennes, EC declaration of conformity according to EC directives
RoHS conform	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
650°	Flame resistant 650 °C
750°	Flame resistant 750 °C
960°	Flame resistant 960 °C
UV RESISTANT	UV-resistant

Specific product symbols

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11
LPZ 2→3	Transition from LPZ 2 to LPZ 3
AS	Acoustic signalling

Applications

FS	Remote signalling
AS	Acoustic signalling
ISDN	Integrated Service Digital Network, ISDN applications
DSL	Digital Subscriber Line, DSL applications
Analog TK	Analogue telecommunication
Cat 5	Category 5 TwisterPair
Cat 6_A	Channel Performance to American EIA/TIA standard
MSR	Measuring, controlling and regulating systems
TV	TV applications
SAT	SAT-TV applications
Mu	MultiBase base
	LifeControl
EX	Intrinsically safe protection device for potentially explosive areas
Class E_A	Channel Performance to ISO/IEC 11801
PoE	Power over Ethernet
230/400 V System	230/400 V system
IP 54	Protection rating IP 54
IP 65	Protection rating IP 65

Lightning protection classes

Type 1	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 1+2	Combination protection device made of type 1 and type 2
Type 2	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

Type 2+3	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

LPZ 0→1	Transition from LPZ 0 to LPZ 1
LPZ 0→2	Transition from LPZ 0 to LPZ 2
LPZ 0→3	Transition from LPZ 0 to LPZ 3
LPZ 1→2	Transition from LPZ 1 to LPZ 2
LPZ 1→3	Transition from LPZ 1 to LPZ 3
LPZ 2→3	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

E30	Maintenance of electrical function class E30
E90	Maintenance of electrical function class E90

Clamp clip base shapes

N	Clamp clip for C profile rail, slot width 11–12 mm
H	Clamp clip for C profile rail, slot width 16–17 mm
U	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Ø 70	Diameter 70 mm
Ø 74	Diameter 74 mm

Entries

4	4 cable entries
6	6 cable entries
7	7 cable entries
8	8 cable entries
9	9 cable entries
10	10 cable entries
12	12 cable entries
10	10 cable entries ECO
12	12 cable entries ECO
14	14 cable entries ECO
16	16 cable entries
18	18 cable entries ECO
24	24 cable entries

Gland thread

M	Thread metric
Pg	Thread Pg

Entry size

M20	M20 entry
M25	M25 entry
M32	M32 entry
M40	M40 entry

KTS side heights

35	Cable tray, side height 35 mm
60	Cable tray, side height 60 mm
85	Cable tray, side height 85 mm
35	Mesh cable tray, side height 35 mm
55	Mesh cable tray, side height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Pictogram explanation

Nominal cross-section

1,5 mm²	Nominal cross-section 1.5 mm²
1,5–2,5 mm²	Nominal cross-section 1.5–2.5 mm²
2,5 mm²	Nominal cross-section 2.5 mm²
2,5–4 mm²	Nominal cross-section 2.5–4 mm²
4 mm²	Nominal cross-section 4 mm²
4-6 mm²	Nominal cross-section 4–6 mm²
6 mm²	Nominal cross-section 6 mm²
10 mm²	Nominal cross-section 10 mm²
16 mm²	Nominal cross-section 16 mm²

Nominal voltage

400 V	Nominal voltage 400 V
500 V	Nominal voltage 500 V
660 V	Nominal voltage 660 V

Polarity

3	3-pole
5	5-pole
7	7-pole
8	8-pole
10	10-pole
12	12-pole

Slot widths

7,5	Slot width 7.5 mm
11	Slot width 11 mm
11-12	Slot width 11–12 mm
12	Slot width 12 mm
15	Slot width 15 mm
16	Slot width 16 mm
16,5	Slot width 16.5 mm
16-17	Slot width 16–17 mm
17	Slot width 17 mm
18	Slot width 18 mm
22	Slot width 22 mm
35	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidriv

Firing devices

	Bolt-firing tool
	Nail device

Protection rating

IP 20	Protection rating IP 20
IP 30	Protection rating IP 30
IP 31	Protection rating IP 31
IP 44	Protection rating IP 44
IP 54	Protection rating IP 54
IP 55	Protection rating IP 55
IP 65	Protection rating IP 65
IP 66	Protection rating IP 66
IP 67	Protection rating IP 67
IP 68	Protection rating IP 68

Metals

Alu	Aluminium
Alu/St	Aluminium/steel
A2	Stainless steel, rustproof
A4	Stainless steel, rustproof
A5	Stainless steel, rustproof
Cu	Copper
CuZn 37	Brass
St	Steel
TG	Malleable iron
Zn	Die-cast zinc

Plastics

ABS/ASA	Acrylonitrile butadiene styrene
UF	Duroplast, Aminoplast, type 131.5
MF	Duroplast, melamine resin, type 150
EVA	Ethylene vinyl acetate

Plastics

FA	Fibre-proof material DIN 28091
GFK	Fibreglass-reinforced plastic
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/ GF	Polyamide, fibreglass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/GF	Polypropylene, fibreglass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Alphabetical table of contents

3

3-wire connection cable, PVC, cross-section 2.5 mm²,; 358
black

4

45° angle connector, external 160; 178
45° angle connector, external 200; 199
45° angle connector, horizontal, inner rail 160; 177, 195
45° angle connector, horizontal, inner rail 200; 199
45° angle connector, horizontal, outer rail 160; 178, 195
45° angle connector, internal 160; 178
45° angle connector, vertical 200; 199
45° bend 110; 140
45° bend 60; 89-90
45° bend 85; 114
45° Magic bend 110; 129
45° Magic bend 35; 24
45° Magic bend 60; 57
45° Magic bend 85; 106
45° mounting bracket MW 45 SL10; 273

9

90° bend; 30, 90-91, 114-115, 141, 149-150, 172, 180, 191-192, 197, 200, 202, 299, 312, 323, 358
90° bend 110; 141, 172, 191, 312
90° bend 160; 180, 197
90° bend 200; 200
90° bend 35; 30
90° bend 60; 90-91, 299
90° bend 85; 114-115
90° bend LTS B; 358
90° Magic bend 110; 129-130
90° Magic bend 35; 24
90° Magic bend 60; 57
90° Magic bend 85; 106
90° mounting angle; 273
90° mounting bracket; 518
90° mounting bracket with 6 holes; 518
90° vertical bend, falling 110; 133, 142
90° vertical bend, falling 160; 197
90° vertical bend, falling 60; 60
90° vertical bend, falling 85; 108, 115
90° vertical bend, rising 110; 132, 142
90° vertical bend, rising 160; 197
90° vertical bend, rising 85; 108, 115
90° vertical bend, rising, 60; 59, 197

A

Adapter head plate, asymmetrical; 416
Adapter head plate, symmetrical; 416
Adapter plate; 388
Adapter plate 45°; 388
Add-on tee; 24, 31, 58, 92, 141, 152-154, 173, 192, 202, 313, 324
Add-on tee 110; 141, 173, 192, 313
Add-on tee 35; 31
Adjustable bend element 110; 314-315
Adjustable bend element, vertical 110; 133, 143
Adjustable connector; 179, 196, 311
Adjustable connector 160; 179, 196
Adjustable vertical bend element 60; 61-62, 94-95
Adjusted bend element 60; 301-302
AML3518 anchor rail, slot 16.5 mm, perforated; 481-482
AML3518 anchor rail, slot 16.5 mm, unperforated; 482, 486, 488
AMS3518 anchor rail, slot 16.5 mm, unperforated; 487-488
Anchor rail AML3518, slot 16.5 mm, perforated; 490
Anchor rail AMS3518, slot 16.5 mm, perforated; 489-490
Angle connector 110; 127, 139, 170, 189, 310
Angle connector 160; 177, 195
Angle connector 35; 23, 29-30
Angle connector 60; 53-54, 87-88, 296-297, 335
Angle connector, vertical 110; 190
Angle profile WP30/35; 507
Angle profile WP40/65 A2; 507
Articulated bend element, vertical 85; 109, 117
Articulated connector 110; 127
Articulated connector 35; 23, 29
Articulated connector 60; 53, 87, 297, 335-336
Articulated connector 85; 104, 113

B

Barrier strip 30; 22, 29, 217
Barrier strip connector; 22, 29, 51, 86, 104, 113, 126, 139, 172, 180, 191, 196, 200, 217, 224, 234, 298, 312
Base plate for wide span systems; 190
Beam clamp for screwing on, light-duty; 463
Beam clamp SSP 20-40; 464
Beam clamp SSP 6-21; 463
Beam clamp with pressure plate, horizontal BFK 153; 474
Beam clamp, for pipes; 459-461, 463
Beam clamp, for profile rail CM3518; 465
Beam clamp, for threaded rod; 459
Beam clamp, horizontal BFK 153; 473
Beam clamp, horizontal BFK 187; 474
Beam clamp, multifunctional; 461
Beam clamp, vertical BFK 132; 473
Beam clamp, vertical BFK 166; 472
Beam clamp, with cable tie; 459
Beam clamp, with fastening hole; 458
Beam clamp, with female thread; 458
Beam clamp, with threaded bolt; 458
Bolt cutter; 273
Bottom end plate; 159
BW 60 fastening bracket; 345, 416
BW US 7 fastening bracket; 416

C

C mesh cable tray CGR; 242-243
Cable eye stiffener; 361
Cable ladder LCIS 110, 6 m C30; 305
Cable ladder LCIS 60, 3 m C30; 284
Cable ladder LG 110, 3 m VS; 303-304
Cable ladder LG 110, 6 m VS; 307-308
Cable ladder LG 60, 3 m VS; 290, 292, 330
Cable ladder LG 60, 6 m VS; 291, 293-295, 331-332
Cable protection ring 915; 356
Cable protection ring DR 910; 356
Cable tray MKS 60; 75-76
Cable tray SKS 60; 77-79
Ceiling bracket; 359-360, 439-443, 450, 452-454, 509
Ceiling bracket, trapezoidal; 359, 452
Ceiling bracket, variable; 359, 454
Ceiling hook; 358
Ceiling profile clamp - CPC; 465
Central hanger for cable tray, side height 60; 451
Central suspension; 363, 451
Centre suspension for cable tray, 35; 450
Centre suspension for cable trays with rolled side rail; 451
of side
Chuck jaw, heavy-duty TKH; 472

Chuck jaw, heavy-duty TKS; 472
Chuck jaw, light-duty TKH; 471
Chuck jaw, light-duty TKS; 471
CL2008 profile rail, slot 11 mm, breakable; 476
CL2008 profile rail, slot 11 mm, perforated; 476-478
CL2712 profile rail, slot 12 mm, perforated; 479
Clamp; 22, 146-147, 191, 196, 200, 217-218, 224-225, 234-235, 264-265, 267-272, 274, 298, 312, 315-317, 322, 361, 385-386, 458-465, 470-474, 514-515
Clamping angle KL; 470
Clamping angle KWH; 470-471
Clamping angle KWS; 470
Clamping piece UK GR; 271
CM3015 profile rail, slot 16 mm, perforated; 480
CM3015 profile rail, slot 16 mm, unperforated; 481
CM3518 , profile rail, slot 17 mm, perforated; 485
CM3518 profile rail, slot 17 mm, perforated; 484
CML3518 profile rail, slot 17 mm, perforated; 483-484
Column foot; 524
Combination nut; 270
Connection piece 60; 297-298
Connection plate with 1 hole; 510-511
Connection plate with 2 holes; 511
Connection plate with 3 holes; 511-512
Connection plate with 4 holes; 512
Connection plate with 5 holes; 512-513
Connection plate, L-shaped; 513
Connection plate, T-shaped; 514
Connection plate, X-shaped; 513
Connection sleeve; 359
Connector; 22-23, 29-30, 51-56, 86-88, 104-105, 113, 126-129, 139, 170-172, 177-180, 189-191, 195-196, 199-200, 217, 224, 234, 262-264, 296-298, 310-312, 335-336, 338-340, 344, 355-356, 362, 400-401, 406-407, 413-414, 510
Connector 110; 127-128, 139, 170-171, 189-190, 310-311
Corner connector 110; 128, 139
Corner connector 35; 23, 30
Corner connector 60; 54, 88
Corner connector 85; 105, 113
Corner extension piece 110; 173
Corner extension piece 160; 181
Corner plate; 320
Corner seat; 389
Cover; 146-157, 201-202, 204, 265-267, 320-325, 336, 356, 363, 524
Cover clamp, universal; 147, 322
Cover for 45° bend; 148-149
Cover for 45° Magic bend; 149
Cover for 90° bend; 150, 202, 323
Cover for 90° bend LBD R3; 323
Cover for 90° bend WDBRL; 202
Cover for 90° Magic bend; 151
Cover for 90° vertical bend, falling, side height 60; 156-157
Cover for 90° vertical bend, rising; 155-156
Cover for add-on tee; 152-154, 202, 324
Cover for add-on tee LAAD 200; 324
Cover for add-on tee LAAD R3; 324
Cover for add-on tee WAAD; 202
Cover for LGBED adjustable vertical bend element; 325
Cover for LTD R3 T piece; 323-324
Cover for Magic add-on tee; 153
Cover for Magic cross-over; 155
Cover for Magic tee; 155
Cover for mesh cable tray, latchable; 265-266
Cover for motor connection column; 524
Cover for T WDTRL T branch piece; 202
Cover for Tee; 154
Cover for variable Magic bend; 151-152
Cover incl. turn buckles; 201
Cover incl. turn-buckles; 201
Cover with turn buckle; 147, 320-321, 356, 363
Cover for stand off mounting; 204, 325, 336

D

Device plate, GP 15; 524
Device plate, GP 31; 525
DK DRLU A2 cover clamp; 146, 322
DKS 60 cable tray; 85
Drop-out plate; 265, 318
DSK 25 spacer; 401

E

Earthing clip; 271
EKS 60 cable tray; 80-81
ELB-L insertion plate; 203, 318-319
End cap; 189, 270, 319, 338-340, 343, 401, 407, 414, 426, 443, 508-509
End cap 110; 189, 319
End cap MS4121; 509
End cap MS4141; 509

F

Fastening bracket BW 64; 417
Fastening bracket for US 3/US 5 support; 402, 409
Fastening element for mesh cable tray; 272

G

G mesh cable tray Magic, side height 125 mm; 254-257
G mesh cable tray Magic, side height 150 mm; 258-261
G mesh cable tray Magic, side height 50 mm; 246-249
G mesh cable tray Magic, side height 75 mm; 250-253
GEV 36 corner connector; 263-264
GKB 34 hold-down clamp; 268
GKS 34 hold-down clamp; 267-268
GKT 38 hold-down clamp; 217-218, 224-225, 234-235, 264-265, 269
GR-Magic® mesh cable tray; 232-233
Grounding clamp; 272
GRV 245 mesh cable tray connector, long; 263
GUV 6 joint connector; 262-263

H

Hammer-head bolt; 504-506
Hammer-head bolt with spring; 505
Hat and support rail cutting unit; 521
Hat profile rail; 519-521
Hat profile rail, perforated; 519-520
Hat profile rail, unperforated; 519-520
Head plate; 401-402, 408-409, 414-416, 426-428, 509, 519
Head plate for welding; 415, 427
Head plate US 5; 408
Head plate US 5 NOK; 408
Head plate with a welded-on CPS 5 rail; 427
Head plate with two welded-on CPS 5 rails; 428
Head plate, heavy-duty; 415
Head plate, light-duty; 414
Head plate, longitudinal; 426
Head plate, transverse; 426
Head plate, variable; 402, 408-409, 415, 427
Heavy mesh cable tray SGR 105; 237
Heavy mesh cable tray SGR 155; 239

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Alphabetical table of contents

Heavy mesh cable tray SGR 55; 227-228
Hexagonal bolt with nut and washer; 360
Hold down clip; 275
Hold-down clamp; 22, 191, 196, 200, 217-218, 224-225, 234-235, 264-265, 267-270, 298, 312, 315-317
Hold-down clamp for barrier strip fastening in GRM; 217, 224, 234, 267
Hold-down clamp for barrier strip fastening in RKSM; 22
Hold-down clamp for barrier strip fastening; 22, 191, 196, 200, 217, 224, 234, 267, 298, 312
Hold-down clamp GKS 50; 269
Hold-down clamp with KLL 32 pressure plate; 317
Hold-down clamp with pressure plate KLL 52; 317
Hook head screw; 504
Hook-head screw; 504
HS M6 hook screw; 270

I

I support connector; 344
Identification clip; 274
IKS 60 cable tray; 84
Industrial vertical cable ladder C40; 342
Industrial vertical cable ladder W40; 343
IS 8 support; 425-426

J

Joint connector GSV 34; 262
Joint plate; 144, 171, 178-179

K

K 11/262 side connector; 263
KLL 32 cable ladder clamping piece; 315
KLL 52 cable ladder hold-down clamp; 315-316
KS 23/35 hold-down clamp; 268
KSB 2 edge protection strip; 158
KU 5 head plate, variable; 408-409

L

LAB drop-out plate; 318
LAL 70 support; 319-320
LALB support plate; 317
Large washer; 341
LAW support prpfile; 317, 320
LCIS 60 cable ladder, 3 m; 285
LCIS 60 cable ladder, 6 m; 286-289
LDVG 60 expansion connector; 296
LG 110 cable ladder, 6 m VS; 309
Lid for 90° bend; 149-150
Lid for 90° vertical bend, falling, side height 110; 158
Lid for 90° vertical bend, falling, side height 85; 156, 158
Lid for 90° vertical bend, rising; 157
Lid with sash lock; 201
LKS 40 hold-down clamp; 316
LKS 60/4 clamping piece; 316
LKS 60/5 hold-down clamp; 317
Locknut - CPCN; 465
LTS K intersection; 358
LTS T T piece; 358
Luminaire support rail 100; 355
Luminaire support rail 50; 353-354
Luminaire support tray; 362
LVG 110 straight connector; 310

M

Magic 110 bend, variable; 130
Magic 110 fitting connector; 128-129
Magic 110 intersection; 132
Magic 110 mounting/branch piece; 130-131
Magic 110 straight connector set; 126-127
Magic 110 tee; 131
Magic 35 add-on tee; 24
Magic 35 straight connector set; 22
Magic 35 T branch piece; 24
Magic 60 bend, variable; 56
Magic 60 fitting connector; 55-56
Magic 60 straight connector set; 52
Magic 85 bend, variable; 106
Magic 85 fitting connector; 105
Magic 85 intersection; 107
Magic 85 mounting/branch piece; 107
Magic 85 straight connector set; 104
Magic 85 T branch piece; 107
Magic add-on tee 60; 58
Magic cross-over 60; 59
Medium-duty vertical cable ladder SLL 60, 6 m CPS4; 333-334
Mesh angle; 275
Mesh cable tray GR; 213-216, 220-223, 230-231, 236, 238
Mesh cable tray GR 105, wire ø 6 mm; 236
Mesh cable tray GR-Magic®; 213-216, 220-223, 230-231
Mesh cable tray GR-Magic® 35; 214-216
Mesh cable tray GR-Magic® 55; 222-223
MKS 110 cable tray; 134
MKS 35 cable tray; 27-28
MKS 85 cable tray; 110
MKS-Magic® 110 cable tray; 118-119, 122-123
MKS-Magic® 110 cable tray, unperforated; 122-123
MKS-Magic® 60 cable tray; 42-43, 46-47
MKS-Magic® 60 cable tray, unperforated; 46-47
MKS-Magic® 85 cable tray; 96-99
MKS-Magic® 85 cable tray, unperforated; 98-99
Motor connection column; 524
Mounting angle; 273, 345-346, 416-417, 428
Mounting angle BW 70; 345, 417
Mounting bracket; 273, 515-518, 524
Mounting bracket, 45° with 3 holes; 515
Mounting bracket, 45° with 4 holes; 516
Mounting bracket, 90° with 2 holes; 516
Mounting bracket, 90° with 3 holes; 517
Mounting bracket, 90° with 4 holes; 517-518
Mounting plate for mesh cable tray; 272
Mounting plate, angled; 145
Mounting plate, angled, wide; 145
Mounting plate, flat; 145
Mounting rail MS4022, heavy-duty, slot 18 mm,; 492-493
perforated
Mounting rail, MS4141, slot 22 mm, perforated; 497, 500
Mounting rail, MS4141, slot 22 mm, side perforation; 498
Mounting rail, MS4182, slot 22 mm, double, perforated; 501
Mounting rail, MSL4141, slot 22 mm, perforated; 497
Mounting angle BW 60; 416
Mounting/branch piece 160; 180
Mounting/branch piece 60; 58, 92-93, 300
Mounting/branch piece 85; 116
MP UNI mounting plate; 144
MS4022 mounting rail, heavy duty, slot 18 mm; 341
MS4121 mounting rail, slot 22 mm, perforated; 496
MS4121 mounting rail, slot width 22 mm, perforated; 495
MS4142 mounting rail, slot 22 mm, double, perforated; 496
MS5030 mounting rail, slot 22 mm, perforated; 493-494
MS5030 mounting rail, slot 22 mm, unperforated; 499
MSL4141 mounting rail, slot 22 mm, perforated; 499

Multifunctional connector 110; 311
Multifunctional connector 60; 297
MWA 12 wall and support bracket; 368

O
Omega clamp; 514-515

P
Perforated steel strap; 361
Profile rail CL2512, slot 11 mm, unperforated; 478-479
Profile rail CL2712, slot 12 mm, unperforated; 480
Profile suspensions; 461
Protective cap; 296, 319, 334, 508-509
Protective cap 60; 296, 319, 334
Protective cap MS4121; 508
Protective cap MS4141; 509

Q
Quick link; 360

R
Rail connector SV with 3 holes; 510
Reducer / stop-end 35; 24, 30
Reducer/stop-end 85; 105, 114
Reducing bracket and end closure plate 110; 128, 140
Reducing bracket and end closure plate 60; 54-55, 88-89
Ring eyelet; 361
RKS 35 cable tray; 25-26
RKS 60 cable tray; 73-74
RKS-Magic® 35 cable tray; 21
RKS-Magic® 60 cable tray; 38-41
Rung CK 40; 344
Rung CKD 40; 344
Rung seat; 345
Rung WSK 40; 345

S
Screw-in beam clamp, universal; 462
Screw-in beam clamp, with gland hole; 462
Screw-in beam clamp, with hinge; 462
Screw-in beam clamp, with thread; 462
Screw-in beam clamp, for pipes and cables; 463
Self-build profile; 518
Separating retainer 110; 126, 139, 179, 196, 199
Separating retainer 135; 180, 196, 200
Separating retainer 45; 51, 85-86, 224, 298
Separating retainer 60; 51, 86, 112
Separating retainer for 105 mm internal height; 104, 113, 126, 139, 172, 190-191, 234, 311-312
Side holder; 272, 275
Side holder for cable gland; 272
SKS 110 cable tray; 135-136
SKS 85 cable tray; 111-112
SKS-Magic® 110 cable tray; 120-121, 124-125
SKS-Magic® 110 cable tray, unperforated; 124-125
SKS-Magic® 60 cable tray; 44-45, 48-50
SKS-Magic® 60 cable tray, unperforated; 48-50
SKS-Magic® 85 cable tray; 100-103
SKS-Magic® 85 cable tray, unperforated; 102-103
SKSU 110 cable tray; 137-138
SKSU 60 cable tray; 82-83
SLAA R3 add-on tee, 110 side height; 313
SLCS 110 cable ladder, 6 m C30; 306
Slide nut; 501-503
Slide nut with spring; 502
SLM 50, heavy-duty vertical ladder, 3 m C40; 337
Slotted steel strap, bent; 264
Spacer; 204, 325, 336, 401, 407-408, 414, 444
Spacer DSK 45; 407
Spacer DSK 47; 407-408
Spacer for cover; 204, 325, 336
Splint for trapezoidal ceiling bracket; 360, 453
Stand-off bracket; 454-455
Steel wire tensioning rope; 360
Straight and angle connector 110; 127, 139
Straight and angle connector 35; 23, 29
Straight and angle connector 50; 356
Straight and angle connector 60; 53, 87
Straight and angle connector 85; 104, 113
Straight connector 110; 170, 189
Straight connector 160; 177, 195
Straight connector 200; 199
Straight connector 35; 22, 29
Straight connector 50; 355
Straight connector 60; 52-53, 86-87, 296, 335
Straight connector set 60; 362
Support bracket AS 15; 390
Support bracket AS 30; 391
Support bracket AS 55; 392
Support clamp; 465
Support claw; 344, 428
Support clip; 461
Support rail; 353-355, 521
Support strap; 344, 428
Suspension bracket 100; 357
Suspension bracket 50; 357
Suspension chain; 360

T
T branch piece 110; 192
T branch piece 160; 197
T branch piece 60; 93
T piece 110; 313
T piece 60; 299-300
Threaded rod; 359, 452, 459
TP support; 433-438
TP wall and ceiling bracket; 439-443
TPSA TP support/wall and support bracket; 435-436
TPSAG TP support/wall and support bracket; 437-438
Trapezoidal fastening; 453
Triangular node; 518
Truss-head bolt with nut and washer; 341
TS suspension eyelet; 361
Turn buckle for riveting; 148, 203
Turn buckle for screwing; 148, 202

U
U support connector VUS 5; 338, 406-407
US 3 support; 339, 398-400, 418
US 5 support; 338, 402, 404-406, 409, 419
US 7 support; 340, 411-413, 420

V
VUS 3 U support connector; 339, 400-401
VUS 7 U support connector; 340, 413-414

W
Wall and clamping bracket AWSS; 385-386
Wall and support bracket AW 15; 372-374
Wall and support bracket AW 30; 378-380

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Alphabetical table of contents

Wall and support bracket AW 55; 381-383
Wall and support bracket AWG 15; 375-377
Wall and support bracket MWA 12; 367
Wall and support bracket MWAG 12; 370-371
Wall and support bracket MWAM 12; 369
Wall bracket; 145, 336, 384, 387, 455
Wall bracket / mounting plate; 145
Wall bracket AW 80; 384
Wall bracket WW; 455
Wall bracket, variable AWV; 387
Wall clamp / central hanger; 274
Wall clamp and central hanger; 271
Wall, floor and ceiling bracket with 3 holes; 509
WBH CGR50 wall holder, horizontal; 271
WBV CGR50 wall holder, vertical; 271
Wide span cable ladder WKL 2020; 198
Wide span cable ladder WKLG 110; 185-188
Wide span cable ladder WKLG 160; 193-194
Wide span cable tray WKSG 110; 167-169
Wide span cable tray WKSG 160; 174-176
Wire cable clamp; 361
WP40/65 angle profile; 507

Z

Zinc repair paint - ZSF 1KG; 160
Zinc repairs; 159

Numeric directory

GTIN	Item no.	Page
	/100 pc.	
5038238	**1104241**	483
5038290	**1104268**	483
5038351	**1104284**	483
5836353	**1104292**	483
5038412	**1104306**	483
5036678	**1104310**	483
5036739	**1104315**	483
5036791	**1104320**	483
5036852	**1104325**	483
5038474	**1104349**	484
5038535	**1104357**	484
5038597	**1104373**	484
5052814	**1104391**	484
5038658	**1104403**	484
5486190	**1104411**	484
6470945	**1104422**	484
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GTIN	Item no.	Page
	price/100	
5043331	**1112139**	488
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5697961	**1122479**	498

GTIN	Item no.	Page
	price/100	
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5698289	**1122992**	497

GTIN	Item no.	Page
	price/100	
5697862	**1123001**	498
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5697923	**1123008**	498
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GTIN	Item no.	Page
	/100 pc.	
6559824	**1124792**	518
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6489596	**1148168**	504

GTIN	Item no.	Page
	/100 pc.	
6489602	**1148170**	504
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6502363	**1483635**	458
6502370	**1483641**	459
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6502417	**1483645**	459

GTIN	Item no.	Page
	/100 pc.	
6502424	**1483647**	459
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6503698	**1483985**	461

GTIN	Item no.	Page
	/100 pc.	
6503070	**1483991**	465
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6503094	**1483995**	465
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	price/100	
5414971	**5303206**	360
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5422594	**5327075**	465

GTIN	Item no.	Page
	/100 pc.	
5422655	**5327083**	465
5422716	**5327105**	465
5422778	**5327121**	465
	price/m	
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6687329	**6001834**	266
6687114	**6001840**	265

GTIN	Item no.	Page
6687121	**6001842**	265
6687138	**6001844**	265
6687145	**6001846**	265
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Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Numeric directory

GTIN	Item no.	Page
	price/m	
5686392	**6005520**	247
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5686415	**6005526**	255
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5434085	**6010632**	334
5434092	**6010634**	334
5434108	**6010636**	334

GTIN	Item no.	Page
	price/m	
5434146	**6010638**	334
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	price/m	
6012671	**6016200**	243

GTIN	Item no.	Page
	price/m	
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GTIN	Item no.	Page
	/pc.	
6014835	**6019706**	345
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6041138	**6040820**	152

GTIN	Item no.	Page
	/pc.	
6041145	**6040822**	152
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GTIN	Item no.	Page
	/pc.	
5878889	**6041294**	58
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GTIN	Item no.	Page
	/pc.	
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5882350	**6042014**	131
5882367	**6042018**	131
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6662166	**6047602**	74

GTIN	Item no.	Page
	price/m	
5390879	**6047611**	38
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5706113	**6047614**	41
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6336852	**6052671**	146
6336913	**6052674**	146
6038770	**6052703**	147

GTIN	Item no.	Page
	price/m	
6038831	**6052706**	147
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6390137	**6056679**	78
6060559	**6056695**	78

GTIN	Item no.	Page
	price/m	
6060610	**6056717**	78
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5831372	**6059237**	46
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5831402	**6059243**	46
5831419	**6059248**	47
5831426	**6059250**	47
5831433	**6059252**	47

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Numeric directory

GTIN	Item no.	Page
	price/m	
5831440	**6059254**	47
5831457	**6059256**	47
5831464	**6059258**	47
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5830740	**6059728**	50

GTIN	Item no.	Page
	price/m	
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GTIN	Item no.	Page
	price/m	
6395477	**6063497**	137
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GTIN	Item no.	Page
	/pc.	
6065714	**6067301**	22
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GTIN	Item no.	Page
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GTIN	Item no.	Page
	/pc.	
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Numeric directory

GTIN	Item no.	Page
	/pc.	
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
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GTIN	Item no.	Page
	/pc.	
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GTIN	Item no.	Page
	/pc.	
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GTIN	Item no.	Page
	/pc.	
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GTIN	Item no.	Page
	/pc.	
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5706359	**6420652**	377
6207077	**6420656**	372
6207138	**6420664**	372
6207190	**6420680**	372
6207251	**6420710**	372
6207312	**6420745**	372
6207374	**6420788**	372
6207435	**6420796**	372
6207497	**6420826**	372
6207558	**6421008**	373
6207619	**6421024**	373
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5061977	**6421044**	373
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6208036	**6421466**	390
6208098	**6421490**	390
7253769	**6424400**	371
7253790	**6424402**	371
7253851	**6424404**	371
7253882	**6424406**	371

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Numeric directory

GTIN	Item no.	Page
7253912	**6424410**	371
7253967	**6424412**	371
7254018	**6424414**	371
7254049	**6424416**	371
7253523	**6424430**	368
7253554	**6424432**	368
7253585	**6424434**	368
7253615	**6424436**	368
7253646	**6424440**	368
7253677	**6424442**	368
7253707	**6424444**	368
7253738	**6424446**	368
	/pc.	
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6208937	**6442803**	379
6209057	**6442838**	379
6209118	**6442854**	379
6209170	**6442870**	379
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6213016	**7002432**	92
6819614	**7002475**	116

GTIN	Item no.	Page
	/pc.	
6819676	**7002491**	116
6819737	**7002513**	116
6213252	**7002521**	116
6213313	**7002556**	116
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5886198	**7007113**	59
5886204	**7007117**	59
5886235	**7007119**	59
5886242	**7007121**	59
5688563	**7007155**	60

GTIN	Item no.	Page
	/pc.	
5995654	**7007156**	60
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5711872	**7007366**	133
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5809197	**7007400**	132
5809203	**7007404**	132
5850922	**7007468**	133
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5809227	**7007474**	133
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5927396	**7027003**	59
5927402	**7027005**	59
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5927860	**7027107**	107
5927877	**7027109**	107
5927884	**7027111**	107
5927891	**7027113**	107
5928041	**7027161**	132
5928058	**7027163**	132
5928065	**7027165**	132
5928072	**7027167**	132

GTIN	Item no.	Page
	/pc.	
5928089	**7027169**	132
5928096	**7027171**	132
5928102	**7027173**	132
5928157	**7027181**	132
5928164	**7027183**	132
5928171	**7027185**	132
5928188	**7027187**	132
5928195	**7027189**	132
5928201	**7027191**	132
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5928225	**7027201**	132
5928249	**7027205**	132
5928256	**7027207**	132
5928263	**7027209**	132
5928270	**7027211**	132
5928287	**7027213**	132
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6095247	**7070306**	144
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6511877	**7075154**	61
6228133	**7075200**	61
6228195	**7075308**	61
6228256	**7075405**	61
6228317	**7075502**	61
6228379	**7075596**	61
6804139	**7075651**	62
6804146	**7075653**	62
6804153	**7075655**	62
6804160	**7075657**	62
6804177	**7075659**	62
6804184	**7075661**	62
6804191	**7075671**	62
6804207	**7075673**	62

GTIN	Item no.	Page
6804221	**7075675**	62
6804238	**7075677**	62
6804245	**7075679**	62
6804283	**7075681**	62
	/pc.	
6228430	**7076096**	109
6228492	**7076207**	109
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6228799	**7077106**	133
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6228911	**7077300**	133
6228973	**7077408**	133
6229031	**7077505**	133
5778912	**7077972**	133
6230471	**7082002**	23
6230532	**7082010**	53
6230594	**7082029**	104
6230655	**7082037**	127
6230716	**7082126**	29
6230778	**7082223**	53
6230839	**7082258**	53
6080113	**7082265**	53
6230891	**7082320**	104
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5866381	**7084151**	159
6146772	**7084757**	145
6146833	**7084765**	145
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6146956	**7084781**	145
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5163268	**7085108**	145
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5286790	**7085112**	145
5163312	**7085114**	144
5166320	**7085133**	144
6982820	**7106106**	54
6308170	**7106110**	54
6982769	**7106114**	54
6982707	**7106118**	54
6024612	**7106122**	54
6024735	**7106126**	54
6034697	**7106130**	54

GTIN	Item no.	Page
	/pc.	
6988525	**7107145**	88
6240678	**7107315**	105
6240739	**7107331**	105
6240791	**7107366**	105
6240852	**7107382**	105
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6241033	**7107455**	128
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6241453	**7108109**	24
6241514	**7108206**	24
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6241637	**7109105**	54
6241699	**7109156**	54
6241750	**7109202**	54
6241811	**7109296**	54
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6243198	**7111509**	128
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6812356	**7117116**	93
6901692	**7117162**	93
6812417	**7117209**	93
6812479	**7117306**	93
6245055	**7117396**	93
6245116	**7117507**	93
6245178	**7117604**	93
6812950	**7120117**	31
5815754	**7120140**	31
6813018	**7120214**	31
6813070	**7120311**	31
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	/pc.	
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6246373	**7121407**	92
6246434	**7121504**	92
6246496	**7121601**	92

GTIN	Item no.	Page
	/pc.	
6813315	**7122109**	116
6813377	**7122213**	116
6813438	**7122310**	116
6246731	**7122403**	116
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6250332	**7129319**	154
6015313	**7129327**	154
6250394	**7129335**	154
6250455	**7129351**	154
6250516	**7129386**	154
6250578	**7129408**	154
6250691	**7129424**	154
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6251056	**7129726**	150
6251117	**7129734**	150

GTIN	Item no.	Page
	/pc.	
6251230	**7130511**	149
6015436	**7130538**	149
6251292	**7130546**	149
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5047612	**7130817**	155
5047629	**7130821**	155
5047636	**7130825**	155
5047643	**7130829**	155
5047681	**7130852**	156
5047698	**7130856**	156
5047704	**7130860**	156
5047735	**7130864**	156
5047742	**7130868**	156
5047759	**7130872**	156
5047766	**7130876**	156
5886464	**7130920**	157
5886495	**7130922**	157
5886518	**7130924**	157
5886525	**7130926**	157
5886556	**7130928**	157
5886563	**7130930**	157
5886310	**7130972**	157
5886358	**7130974**	157
5886372	**7130976**	157
5886426	**7130978**	157
5886433	**7130980**	157
5886440	**7130982**	157
5711964	**7130990**	156
5711995	**7130994**	156
5712008	**7130998**	156
5712015	**7131002**	156
5712022	**7131006**	156
5712039	**7131010**	156
5712046	**7131030**	158
5995753	**7131032**	158
5712053	**7131034**	158
5712060	**7131038**	158
5712077	**7131042**	158
5712084	**7131046**	158
5712091	**7131050**	158
5995760	**7131052**	158
6252190	**7131305**	152
6252251	**7131321**	152
6252312	**7131348**	152
6252374	**7131356**	152
6252497	**7131372**	152
6252558	**7131380**	152
5850915	**7131508**	155
5874386	**7131509**	155
5809265	**7131510**	155
5874393	**7131514**	155
5809272	**7131518**	155
5874409	**7131524**	155
5874416	**7131527**	155
5850960	**7131556**	158
5809289	**7131560**	158
5874775	**7131564**	158
5809296	**7131568**	158
5874782	**7131572**	158
5995784	**7131576**	158
5874546	**7131632**	156
5874553	**7131634**	156
5874560	**7131636**	156
5874607	**7131640**	156
5874614	**7131644**	156
5874621	**7131648**	156
5874669	**7131652**	156
5874676	**7131672**	158
5874683	**7131676**	158
5874713	**7131680**	158
5874720	**7131684**	158
5874737	**7131688**	158
5874744	**7131692**	158
6687688	**7131780**	150
6688678	**7131785**	150

GTIN	Item no.	Page
	/pc.	
6252671	**7131828**	148
6027125	**7131836**	148
6252732	**7131844**	148
6252794	**7131860**	148
6252855	**7131879**	149
6252916	**7131887**	149
6252978	**7131895**	149
6253036	**7131909**	149
6687695	**7132110**	152
6688685	**7132115**	152
	/pc.	
6820696	**7133107**	90
6820757	**7133120**	90
6820818	**7133142**	90
6253630	**7133235**	90
6253692	**7133243**	90
6253753	**7133251**	90
5866398	**7133261**	90
5866404	**7133263**	90
5866442	**7133265**	90
5866459	**7133271**	90
5866466	**7133273**	90
5866473	**7133275**	90
6820870	**7134122**	91
6820931	**7134130**	91
6820993	**7134138**	91
6254712	**7134231**	91
6254774	**7134258**	91
6254835	**7134266**	91
5866541	**7134286**	91
5866558	**7134288**	91
5866565	**7134290**	91
5866572	**7134292**	91
5866589	**7134294**	91
5866626	**7134296**	91
6254897	**7134908**	150
6254958	**7134916**	150
6255016	**7134924**	150
6255078	**7134932**	150
6255139	**7134940**	150
6255191	**7134967**	150
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5866640	**7134988**	150
5866657	**7134990**	150
5866664	**7134992**	150
5866671	**7134994**	150
5866688	**7134996**	150
6821235	**7136120**	92
5675686	**7136122**	92
6821297	**7136133**	92
5866695	**7136135**	92
6821358	**7136141**	92
5866701	**7136143**	92
6256877	**7136242**	93
5866749	**7136244**	93
6256938	**7136250**	93
5866756	**7136252**	93
6256990	**7136269**	93
5866763	**7136271**	93
6257058	**7136900**	153
6257119	**7136919**	153
5866800	**7136921**	153
6257171	**7136927**	153
5866817	**7136929**	153
6257232	**7136935**	154
5866824	**7136937**	154
6257294	**7136943**	154
5866862	**7136944**	154
6257355	**7136978**	154
5866879	**7136980**	154
5928751	**7138360**	149
5928768	**7138362**	149
5928775	**7138364**	149
5928782	**7138366**	149
5928799	**7138368**	149
5928812	**7138370**	149
5928829	**7138372**	149
5928836	**7138400**	149

GTIN	Item no.	Page
	/pc.	
5928843	**7138402**	149
5928867	**7138404**	149
5928874	**7138406**	149
5928881	**7138408**	149
5928904	**7138410**	149
5928911	**7138412**	149
5929093	**7138500**	151
5929109	**7138502**	151
5929116	**7138504**	151
5929123	**7138506**	151
5929130	**7138508**	151
5929147	**7138510**	151
5929154	**7138512**	151
5929192	**7138540**	151
5929208	**7138542**	151
5929215	**7138544**	151
5929222	**7138546**	151
5929239	**7138548**	151
5929246	**7138550**	151
5929253	**7138552**	151
5929260	**7138570**	151
5929277	**7138572**	151
5929284	**7138574**	151
5929291	**7138576**	151
5929307	**7138578**	151
5929314	**7138580**	151
5929321	**7138582**	151
5929338	**7138590**	151
5929345	**7138592**	151
5929352	**7138594**	151
5929369	**7138596**	151
5929376	**7138598**	151
5929383	**7138600**	151
5930587	**7138640**	153
5930594	**7138642**	153
5930600	**7138644**	153
5930617	**7138646**	153
5930624	**7138648**	153
5930631	**7138650**	153
5930648	**7138652**	153
5930655	**7138680**	153
5930662	**7138682**	153
5930679	**7138684**	153
5930686	**7138686**	153
5930693	**7138688**	153
5930709	**7138690**	153
5930716	**7138692**	153
5930723	**7138720**	153
5930754	**7138722**	153
5930761	**7138724**	153
5930778	**7138726**	153
5930785	**7138728**	153
5930792	**7138730**	153
5930808	**7138732**	153
5930815	**7138740**	153
5930822	**7138742**	153
5930839	**7138744**	153
5930846	**7138746**	153
5930853	**7138748**	153
5930860	**7138750**	153
5930877	**7138752**	153
5930884	**7138790**	155
5930891	**7138792**	155
5930907	**7138794**	155
5930914	**7138796**	155
5930921	**7138798**	155
5930938	**7138800**	155
5930945	**7138802**	155
5930952	**7138830**	155
5930969	**7138832**	155
5931003	**7138834**	155
5931010	**7138836**	155
5931027	**7138838**	155
5931058	**7138840**	155
5931065	**7138842**	155
5931256	**7138930**	155
5931263	**7138932**	155
5931270	**7138934**	155
5931294	**7138938**	155
5931300	**7138940**	155
5931317	**7138942**	155
5931324	**7138970**	155
5931362	**7138974**	155

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Numeric directory

GTIN	Item no.	Page
	/pc.	
5931379	**7138976**	155
5931386	**7138978**	155
5931393	**7138980**	155
5931409	**7138982**	155
6261796	**7164017**	318
6261857	**7164025**	318
6261918	**7164033**	318
6261970	**7164041**	318
6262038	**7164068**	318

Type listing

Type	GTIN	Item no.	Page
		price/100	
2064 GTP 2M	5044291	1115057	521
2064 GTPL 2M	5044352	1115065	521
2069 15 1.5 FS	6413010	1115460	520
2069 15 1.5 GTP	5044833	1115421	520
2069 15 1.5 GTPL	5044895	1115456	520
2069 15 2.2 GTP	5045076	1115553	520
2069 15 2.2 GTPL	5045199	1115596	520
2069 1M FS	5045557	1115677	519
2069 1M GTP	5045618	1115685	519
2069 2M BK	5045250	1115618	519
2069 2M FS	5045311	1115626	519
2069 2M GTP	5045434	1115650	519
2069 2M GTPL	5045496	1115669	519
2069 3M BK	5871453	1115855	519
2069 L 2M FS	5045977	1115804	520
		/100 pc.	
2084 K M6	5307150	3463060	361
2990 M6 G	5306979	3462862	361
2990 M8 G	5307037	3462889	361
325 100 FT	5422716	5327105	465
325 130 FT	5422778	5327121	465
325 70 FT	5422594	5327075	465
325 80 FT	5422655	5327083	465
328 1	5126799	1408011	465
328 2	5126850	1408046	465
		price/100	
339 2	5127031	1408534	463
		price/100	
46277 GTP	5044598	1115332	521
46277 GTPL	5044659	1115359	521
		/pc.	
5055 I12 FS	5138310	1470124	361
5055 II17 FS	5138372	1470175	361
5055 III26 FS	5138433	1470264	361
5055 LI12 FS	5138679	1471120	361
5055 LII17 FS	5138730	1471171	361
5055 LIII26 FS	5138792	1471260	361
		/100 pc.	
939	5386056	5043107	271
946 3 G	5413950	5301033	361
947 3 G	5414551	5302021	361
948 TG6	5513315	3453820	358
		price/100	
957 3 G	5414971	5303206	360
		/100 pc.	
ACMHB M10x30 A4	6488988	1148088	506
ACMHB M10x30 ZL	6488919	1148068	506
ACMHB M10x60 A4	6488995	1148092	506
ACMHB M10x60 ZL	6488926	1148072	506
ACMHB M6x30 A4	6488933	1148076	506
ACMHB M6x30 ZL	6488865	1148056	506
ACMHB M8x30 A4	6488940	1148080	506
ACMHB M8x30 ZL	6488872	1148060	506
ACMHB M8x60 A4	6488971	1148084	506
ACMHB M8x60 ZL	6488889	1148064	506
ACMSN M10 A4	6488803	1147084	503
ACMSN M10 ZL	6488858	1147064	503
ACMSN M6 A4	6488780	1147076	503
ACMSN M6 ZL	6488810	1147056	503
ACMSN M8 A4	6488797	1147080	503
ACMSN M8 ZL	6488827	1147060	503
		/pc.	
AH 35 A2	6046195	6065475	325
AH 35 A2	6046195	6065475	336
AH 35 WS A2	6055913	6065477	204

Type	GTIN	Item no.	Page
		/100 pc.	
AHB 100 D5 FT	5834878	6066510	357
		/pc.	
AHB 100 FT	6881413	6363903	450
AHB 150 FT	6148219	6363907	450
AHB 200 FT	6881475	6363911	450
AHB 300 FT	6881536	6363938	450
AHB 400 FT	6881598	6363946	450
		/100 pc.	
AHB 50 D4 FT	6935895	6066505	357
		/pc.	
AHIS 8 FT	6014477	6019064	344
AHIS 8 FT	6014477	6019064	428
		/100 pc.	
AML3518P0200FT	5060673	1119696	490
AML3518P0300FT	5060611	1119693	490
AML3518P0400FT	5060376	1119690	490
AML3518P0500FT	5060253	1119687	490
AML3518P0600FT	5059417	1119684	490
AML3518P0700FT	5059356	1119681	490
AML3518P0800FT	5059295	1119678	490
		price/100	
AML3518P1000A2	6470747	1119700	482
AML3518P1000FS	6470730	1119646	481
AML3518P1000FT	5053958	1119672	481
AML3518P2000A2	5047650	1119702	482
AML3518P2000FS	5864318	1119648	481
AML3518P2000FT	5047599	1119656	481
AML3518P6000A2	5047711	1119729	482
AML3518UP2000A2	6470723	1112007	482
AML3518UP2000BK	5046936	1118021	488
AML3518UP2000FS	5047179	1118226	486
AML3518UP2000FT	5047056	1118129	486
AML3518UP6000FT	5047117	1118153	486
AMS3518P1000A2	6470792	1118421	490
AMS3518P1000FS	6470754	1112735	481
AMS3518P1000FT	6470778	1112755	481
AMS3518P2000A2	5627128	1112709	490
AMS3518P2000FS	5632597	1112708	489
AMS3518P2000FT	5632535	1112759	489
AMS3518UP2000A2	5627111	1110005	482
AMS3518UP2000BK	5043157	1112023	488
AMS3518UP2000FS	5043270	1112120	487
AMS3518UP2000FS	5043270	1112120	488
AMS3518UP2000FT	5043393	1112228	487
AMS3518UP2000FT	5043393	1112228	488
AMS3518UP6000BK	5043218	1112074	488
AMS3518UP6000FS	5043331	1112139	488
AMS3518UP6000FT	5043454	1112244	488
		/pc.	
AS 15 11 FT	6207732	6421326	390
AS 15 16 FT	6207794	6421334	390
AS 15 21 FT	6207855	6421350	390
AS 15 31 FT	6207916	6421385	390
AS 15 41 FT	6207978	6421423	390
AS 15 51 FT	6208036	6421466	390
AS 15 61 FT	6208098	6421490	390
AS 30 11 FT	5873228	6419370	391
AS 30 16 FT	5873235	6419376	391
AS 30 21 FT	5873242	6419382	391
AS 30 31 FT	5873259	6419388	391
AS 30 41 FT	5873266	6419394	391
AS 30 51 FT	5873273	6419400	391
AS 30 56 FT	5873280	6419406	391
AS 30 61 FT	5873297	6419412	391
AS 30 71 FT	5873303	6419418	391
AS 55 101 FT	5873211	6419340	392
AS 55 21 FT	5872917	6419286	392
AS 55 31 FT	5872924	6419292	392
AS 55 41 FT	5872931	6419298	392
AS 55 51 FT	5873150	6419304	392
AS 55 56 FT	5873167	6419310	392
AS 55 61 FT	5873174	6419316	392
AS 55 71 FT	5873181	6419322	392
AS 55 81 FT	5873198	6419328	392
AS 55 91 FT	5873204	6419334	392
AW 15 11 A2	6207558	6421008	373

Type	GTIN	Item no.	Page
		/pc.	
AW 15 11 A4	6817634	6392008	374
AW 15 11 FT	6207077	6420656	372
AW 15 16 FT	6207138	6420664	372
AW 15 21 A2	6207619	6421024	373
AW 15 21 A4	6817696	6392016	374
AW 15 21 FT	6207190	6420680	372
AW 15 31 A2	6207671	6421032	373
AW 15 31 A4	6817757	6392024	374
AW 15 31 FT	6207251	6420710	372
AW 15 41 A2	5061953	6421036	373
AW 15 41 A4	6817818	6392032	374
AW 15 41 FT	6207312	6420745	372
AW 15 51 A2	5061960	6421040	373
AW 15 51 A4	6817870	6392040	374
AW 15 51 FT	6207374	6420788	372
AW 15 56 FT	6207435	6420796	372
AW 15 61 A2	5061977	6421044	373
AW 15 61 A4	6817931	6392059	374
AW 15 61 FT	6207497	6420826	372
AW 30 11 A2	6208937	6442803	379
AW 30 11 A4	5021049	6443615	380
AW 30 11 FT	6206599	6419704	378
AW 30 16 FT	6206650	6419712	378
AW 30 21 A2	6209057	6442838	379
AW 30 21 A4	6349753	6443311	380
AW 30 21 FT	6206711	6419720	378
AW 30 31 A2	6209118	6442854	379
AW 30 31 A4	6955879	6443621	380
AW 30 31 FT	6206773	6419747	378
AW 30 41 A2	6209170	6442870	379
AW 30 41 A4	6554478	6443346	380
AW 30 41 FT	6206834	6419763	378
AW 30 51 A2	6209231	6442897	379
AW 30 51 A4	5021094	6443625	380
AW 30 51 FT	6206896	6419798	378
AW 30 56 FT	6207015	6419844	378
AW 30 61 A2	6209293	6442919	379
AW 30 61 A4	5021100	6443627	380
AW 30 61 FT	6206957	6419828	378
AW 30 71 FT	6483730	6419836	378
AW 55 101 FT	6205271	6418724	381
AW 55 21 A2	6441433	6443063	382
AW 55 21 A4	5912965	6418557	383
AW 55 21 FT	6204731	6418554	381
AW 55 31 A2	6441495	6443067	382
AW 55 31 A4	5912972	6418573	383
AW 55 31 FT	6204793	6418570	381
AW 55 41 A2	6617111	6443071	382
AW 55 41 A4	5912989	6418601	383
AW 55 41 FT	6204854	6418597	381
AW 55 51 A2	6661091	6443075	382
AW 55 51 A4	5912996	6418622	383
AW 55 51 FT	6204915	6418619	381
AW 55 56 FT	6204977	6418627	381
AW 55 61 A2	6661152	6443079	382
AW 55 61 A4	5913009	6418638	383
AW 55 61 FT	6205035	6418635	381
AW 55 71 A2	6661879	6443083	382
AW 55 71 FT	6205097	6418651	381
AW 55 81 FT	6205158	6418686	381
AW 55 91 FT	6205219	6418708	381
AW 80 21 FT	6203475	6417752	384
AW 80 31 FT	6203536	6417779	384
AW 80 41 FT	6203598	6417795	384
AW 80 51 FT	6203659	6417817	384
AW 80 61 FT	6203710	6417833	384
AW 80 71 FT	6203772	6417868	384
AW 80 81 FT	6203833	6417884	384
AW G 15 11 FT	6662470	6420606	375
AW G 15 16 FT	6079155	6420607	375
AW G 15 21 FT	6662531	6420608	375
AW G 15 31 FT	6662593	6420610	375
AW G 15 41 FT	6662654	6420612	375
AW G 15 51 FT	6662715	6420614	375
AW G 15 61 FT	6662777	6420616	375
AWG 15 11 A2	5058373	6420625	376
AWG 15 11 A4	5706304	6420642	377
AWG 15 21 A2	5058380	6420628	376

Type	GTIN	Item no.	Page
		/pc.	
AWG 15 21 A4	5706311	6420644	377
AWG 15 31 A2	5058427	6420631	376
AWG 15 31 A4	5395362	6420646	377
AWG 15 41 A2	5058434	6420634	376
AWG 15 41 A4	5706052	6420648	377
AWG 15 51 A2	5058502	6420637	376
AWG 15 51 A4	5706328	6420650	377
AWG 15 61 A2	5058540	6420640	376
AWG 15 61 A4	5706359	6420652	377
AWSS 101 FT	6340750	6417938	385
AWSS 21 A2	6803880	6417941	386
AWSS 21 A4	6803934	6417971	386
		/pc.	
AWSS 21 FT	6340279	6417906	385
AWSS 31 A2	6803897	6417943	386
AWSS 31 A4	6803941	6417973	386
		/pc.	
AWSS 31 FT	6340330	6417910	385
AWSS 41 A2	6803903	6417945	386
AWSS 41 A4	6803958	6417975	386
		/pc.	
AWSS 41 FT	6340392	6417914	385
AWSS 51 A2	6803910	6417947	386
AWSS 51 A4	6803965	6417977	386
		/pc.	
AWSS 51 FT	6340453	6417918	385
AWSS 61 A2	6803927	6417949	386
AWSS 61 A4	6803972	6417979	386
		/pc.	
AWSS 61 FT	6340514	6417922	385
AWSS 71 FT	6340576	6417926	385
AWSS 81 FT	6340637	6417930	385
AWSS 91 FT	6340699	6417934	385
AWV 21 FT	6206292	6419534	387
AWV 31 FT	6206353	6419550	387
AWV 41 FT	6206414	6419577	387
AWV 51 FT	6206476	6419593	387
AWV 61 FT	6206537	6419615	387
		price/m	
AZDMD 100 DD	6406098	6080235	356
AZDMD 100 FS	6069552	6080227	356
AZDMD 50 DD	6405916	6080154	356
AZDMD 50 FS	6069439	6080138	356
		/pc.	
BC GR 4.8 A2	5980698	6016665	275
		/100 pc.	
BCC 2-4 D11	6503391	1483907	460
BCC 2-4 D14	6503407	1483911	460
BCC 2-4 D18	6503438	1483915	460
BCC 2-4 D24	6503445	1483919	460
BCC 2-4 D30	6503452	1483923	460
BCC 2-4 D5,5	6503339	1483901	460
BCC 2-4 D7	6503346	1483903	460
BCC 2-4 D9	6503384	1483905	460
BCC 4-7 D11	6503513	1483937	460
BCC 4-7 D14	6503520	1483941	460
BCC 4-7 D18	6503551	1483945	460
BCC 4-7 D24	6503568	1483951	460
BCC 4-7 D30	6503575	1483955	460
BCC 4-7 D5,5	6503469	1483931	460
BCC 4-7 D7	6503490	1483933	460
BCC 4-7 D9	6503506	1483935	460
BCC 8-12 D11	6503629	1483965	460
BCC 8-12 D14	6503636	1483969	460
BCC 8-12 D18	6503643	1483973	460
BCC 8-12 D24	6503674	1483977	460
BCC 8-12 D30	6503681	1483981	460
BCC 8-12 D5,5	6503735	1483960	460
BCC 8-12 D7	6503582	1483961	460
BCC 8-12 D9	6503612	1483963	460
BCCA	6503131	1483999	461
BCCF 8-9 D20	6503698	1483985	461
BCCT 14-20 L240	6502448	1483651	459
BCCT 14-20 L365	6502479	1483653	459
BCCT 2-4 L240	6502370	1483641	459

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/100 pc.	
BCCT 4-8 L240	6502387	1483643	459
BCCT 4-8 L365	6502417	1483645	459
BCCT 8-14 L240	6502424	1483647	459
BCCT 8-14 L365	6502431	1483649	459
BCHPC 14-20 D20	6502714	1483711	460
BCHPC 14-20 D25	6502721	1483713	460
BCHPC 14-20 D32	6502738	1483715	460
BCHPC 14-20 D40	6502745	1483717	460
BCHPC 2-4 D20	6502561	1483681	460
BCHPC 2-4 D25	6502592	1483683	460
BCHPC 2-4 D32	6502608	1483685	460
BCHPC 4-8 D20	6502615	1483687	460
BCHPC 4-8 D25	6502622	1483689	460
BCHPC 4-8 D32	6502653	1483691	460
BCHPC 4-8 D40	6502660	1483693	460
BCHPC 8-14 D20	6502677	1483701	460
BCHPC 8-14 D25	6502684	1483703	460
BCHPC 8-14 D32	6502691	1483705	460
BCHPC 8-14 D40	6502707	1483707	460
BCHPO 14-20 D20	6503278	1483841	459
BCHPO 14-20 D25	6503285	1483843	459
BCHPO 14-20 D32	6503322	1483845	459
BCHPO 2-4 D20	6503148	1483811	459
BCHPO 2-4 D25	6503155	1483813	459
BCHPO 2-4 D32	6503162	1483815	459
BCHPO 4-8 D20	6503193	1483821	459
BCHPO 4-8 D25	6503209	1483823	459
BCHPO 4-8 D32	6503216	1483825	459
BCHPO 8-14 D20	6503223	1483831	459
BCHPO 8-14 D25	6503254	1483833	459
BCHPO 8-14 D32	6503261	1483835	459
BCTR 4-8 M10	6502547	1483669	459
BCTR 4-8 M6	6502486	1483661	459
BCTR 4-8 M8	6502509	1483665	459
BCTR 8-14 M10	6502554	1483671	459
BCTR 8-14 M6	6502493	1483663	459
BCTR 8-14 M8	6502530	1483667	459
BCUIT 14-20 M6	6502318	1483625	458
BCUIT 3-7 M6	6502295	1483621	458
BCUIT 8-12,5 M6	6502301	1483623	458
BCUTB 14-20 M6	6502363	1483635	458
BCUTB 3-7 M6	6502325	1483631	458
BCUTB 8-12,5 M6	6502356	1483633	458
BCVH 14-20	6502196	1483607	458
BCVH 2-4	6502165	1483601	458
BCVH 4-8	6502172	1483603	458
BCVH 8-14	6502189	1483605	458
BCVPC 14-20 D20	6503018	1483801	459
BCVPC 14-20 D25	6503025	1483803	459
BCVPC 14-20 D32	6503032	1483805	459
BCVPC 14-20 D40	6503049	1483807	459
BCVPC 3-7 D20	6502899	1483781	459
BCVPC 3-7 D25	6502905	1483783	459
BCVPC 3-7 D32	6502912	1483785	459
BCVPC 3-7 D40	6502929	1483787	459
BCVPC 8-12,5 D20	6502950	1483791	459
BCVPC 8-12,5 D25	6502967	1483793	459
BCVPC 8-12,5 D32	6502974	1483795	459
BCVPC 8-12,5 D40	6502981	1483797	459
BCVPO 14-20 D20	6502851	1483771	460
BCVPO 14-20 D25	6502868	1483773	460
BCVPO 14-20 D32	6503704	1483775	460
BCVPO 3-7 D20	6502776	1483751	460
BCVPO 3-7 D25	6502783	1483753	460
BCVPO 3-7 D32	6502790	1483757	460
BCVPO 8-12,5 D20	6502806	1483761	460
BCVPO 8-12,5 D25	6502837	1483763	460
BCVPO 8-12,5 D32	6502844	1483765	460
BCVTB 14-20 M6	6502264	1483617	458
BCVTB 2-4 M6	6502202	1483611	458
BCVTB 4-8 M6	6502240	1483613	458
BCVTB 8-14 M6	6502257	1483615	458
BE TS GR	5840602	2007833	272

Type	GTIN	Item no.	Page
		/pc.	
BEB 050 DD	6100934	7083616	159
BEB 050 FS	6231010	7083041	159
BEB 100 A2	6232031	7084013	159
BEB 100 A4	5866336	7084141	159
BEB 100 DD	6983728	7083618	159
BEB 100 FS	6231072	7083106	159
BEB 150 A2	5995531	7084015	159
BEB 150 A4	5995548	7084142	159
BEB 150 DD	6026883	7083622	159
BEB 150 FS	6231133	7083157	159
BEB 200 A2	6232093	7084048	159
BEB 200 A4	5866343	7084143	159
BEB 200 DD	6982943	7083626	159
BEB 200 FS	6231195	7083203	159
BEB 300 A2	6232154	7084064	159
BEB 300 A4	5866350	7084145	159
BEB 300 DD	6982882	7083630	159
BEB 300 FS	6231256	7083300	159
BEB 400 A2	6232215	7084080	159
BEB 400 A4	5866367	7084147	159
BEB 400 DD	6024254	7083634	159
BEB 400 FS	6231317	7083408	159
BEB 500 A2	6232277	7084102	159
BEB 500 A4	5866374	7084149	159
BEB 500 DD	6024490	7083638	159
BEB 500 FS	6231379	7083505	159
BEB 550 DD	6100996	7083640	159
BEB 550 FS	6231430	7083556	159
BEB 600 A2	6232338	7084129	159
BEB 600 A4	5866381	7084151	159
BEB 600 DD	6034635	7083642	159
BEB 600 FS	6231492	7083602	159
BF 140 10 FT	6295876	6356362	524
BFK 132 58 A2	6049448	6003871	473
BFK 132 58 FT	6079889	6003880	473
BFK 153 33 A2	6049561	6003873	473
BFK 153 33 FT	6079896	6003884	473
BFK 166 58 20 A2	6049806	6003877	472
BFK 166 58 20 FT	6079902	6003888	472
BFK 187 33 A2	6049929	6003879	474
BFK 187 33 FT	6079919	6003892	474
BFKD 153 44 A2	6625352	6003887	474
BFKD 153 44 FT	6609215	6003885	474
BW 60 40 A2	6014651	6019587	416
BW 60 40 A4	5403067	6019583	416
BW 60 40 FT	6014590	6019560	345
BW 60 40 FT	6014590	6019560	416
BW 64 32 A2	6701636	6019686	417
BW 64 32 FS	6701612	6019680	417
BW 64 32 FT	6701629	6019682	417
		/pc.	
BW 70 40 FT	6014835	6019706	345
BW 70 40 FT	6014835	6019706	417
BW 80 55 FT	6014538	6019528	346
BW 80 55 FT	6014538	6019528	428
BW US 3/5 FT	6653652	6019534	402
BW US 3/5 FT	6653652	6019534	409
BW US 7 FT	6653645	6019532	416
		price/m	
CGR 50 100 A2	6012732	6016235	243
CGR 50 100 FT	6013999	6017436	242
CGR 50 200 A2	6012794	6016251	243
CGR 50 200 FT	6014057	6017444	242
CGR 50 300 A2	5891352	6016253	243
CGR 50 300 FT	6295692	6017452	242
CGR 50 400 A2	5891369	6016255	243
CGR 50 400 FT	6014118	6017460	242
CGR 50 50 A2	6012671	6016200	243
CGR 50 50 FT	6013937	6017428	242
		/pc.	
CK 40 100 FT	6007998	6008305	344
CK 40 110 FT	6008056	6008313	344
CK 40 120 FT	6008117	6008321	344
CK 40 20 FT	6629718	6008224	344

Type	GTIN	Item no.	Page
		/pc.	
CK 40 30 FT	6356058	6008232	344
CK 40 40 FT	6007639	6008240	344
CK 40 50 FT	6007691	6008259	344
CK 40 60 FT	6007752	6008267	344
CK 40 70 FT	6007813	6008275	344
CK 40 80 FT	6007875	6008283	344
CK 40 90 FT	6007936	6008291	344
CKD 40 60 FT	5612766	6008269	344
CKD 40 70 FT	5612773	6008277	344
CKD 40 80 FT	5612780	6008285	344
CKD 40 90 FT	5612797	6008293	344
		price/100	
CL2008BP1000FS	5039556	1105906	476
CL2008BP2000BK	5039617	1106023	476
CL2008BP2000FS	5039730	1106120	476
CL2008BP2000FS	5039730	1106120	476
CL2008P2000A2	5627104	1106628	477
CL2008P2000FS	5040095	1106627	476
CL2008UP2000A2	5627098	1105125	478
CL2008UP2000FS	5039433	1105124	477
		/100 pc.	
CL20HB M5x25 ZL	6488704	1148008	506
CL20HB M6x25 ZL	6488735	1148012	506
CL20HB M8x25 ZL	6488742	1148016	506
CL20SN M4 ZL	6488636	1147008	503
CL20SN M5 ZL	6488643	1147012	503
CL20SN M6 ZL	6488650	1147016	503
		price/100	
CL2512UP2000FS	5046578	1117033	478
CL2512UP2000FS	5046578	1117033	479
CL2512UP2000FT	5046516	1117025	479
CL2712P2000FS	6470693	1109525	479
CL2712P2000FT	5041894	1109529	479
CL2712UP2000BK	5041412	1109014	480
CL2712UP2000FT	5041474	1109022	480
		/100 pc.	
CL27HB M5x25 ZL	6488759	1148020	506
CL27HB M6x25 ZL	6488766	1148024	506
CL27HB M8x25 ZL	6488773	1148028	506
CL27SN M4 ZL	6488667	1147020	503
CL27SN M5 ZL	6488674	1147024	503
CL27SN M6 ZL	6488681	1147028	503
CL27SN M8 ZL	6488698	1147032	503
CM3015P0200FT	5036975	1109782	480
CM3015P0300FT	5037033	1109790	480
CM3015P0400FT	5037095	1109804	480
CM3015P0500FT	5037156	1109812	480
CM3015P0600FT	5037217	1109820	480
CM3015P0700FT	5037279	1109839	480
CM3015P0800FT	5037330	1109847	480
		price/100	
CM3015P1000FT	5037934	1109863	480
CM3015P2000FS	5053897	1110002	480
CM3015P2000FT	5041771	1109871	480
CM3015UP2000FS	5042075	1110004	481
		/pc.	
CM3518 KD FT	6192373	6350100	518
CM3518 KP FT	6192311	6350054	519
		/100 pc.	
CM3518 SK	5668114	1124502	508
		price/m	
CMCP3000FT	6192557	6350208	518
		/100 pc.	
CML3518P0150FS	5038238	1104241	483
CML3518P0150FT	6470815	1104550	483
CML3518P0200FS	5038290	1104268	483
CML3518P0200FT	6470822	1104552	483
CML3518P0300FS	5038351	1104284	483
CML3518P0300FT	6470839	1104554	483
CML3518P0400FS	5836353	1104292	483
CML3518P0400FT	6470846	1104556	483
CML3518P0500FS	5038412	1104306	483
CML3518P0500FT	6470853	1104558	483
CML3518P0600FS	5036678	1104310	483
CML3518P0600FT	6470860	1104560	483

Type	GTIN	Item no.	Page
		/100 pc.	
CML3518P0700FS	5036739	1104315	483
CML3518P0700FT	6470877	1104562	483
CML3518P0800FS	5036791	1104320	483
CML3518P0800FT	6470884	1104564	483
CML3518P0900FS	5036852	1104325	483
CML3518P0900FT	6470914	1104566	483
		price/100	
CML3518P1000A2	5627074	1104498	485
CML3518P1000FS	5694458	1104497	484
CML3518P1000FT	6470921	1104568	484
CML3518P2000A2	5627081	1104501	485
CML3518P2000FS	5038771	1104500	484
CML3518P2000FT	6470938	1104570	484
		/100 pc.	
CMS3518P0150FS	5038474	1104349	484
CMS3518P0150FT	6470952	1104581	484
CMS3518P0200FS	5038535	1104357	484
CMS3518P0200FT	6470969	1104583	484
CMS3518P0300FS	5038597	1104373	484
CMS3518P0300FT	6470976	1104585	484
CMS3518P0400FS	5052814	1104391	484
CMS3518P0400FT	6470983	1104587	484
CMS3518P0500FS	5038658	1104403	484
CMS3518P0500FT	6470990	1104589	484
CMS3518P0600FS	5486190	1104411	484
CMS3518P0600FT	6471003	1104591	484
CMS3518P0700FS	6470945	1104422	484
CMS3518P0700FT	6471010	1104593	484
CMS3518P0800FS	5051732	1104427	484
CMS3518P0800FT	6471027	1104595	484
CMS3518P0900FS	5052630	1104435	484
CMS3518P0900FT	6471034	1104597	484
		price/100	
CMS3518P1000FS	5052692	1104445	484
CMS3518P2000FS	5038719	1104454	484
		/pc.	
CMW90FT	6192496	6350151	518
		/100 pc.	
CPC M6x11	6503070	1483991	465
CPC M6x16	6503087	1483993	465
CPC M6x25	6503094	1483995	465
CPCN M6	6503100	1483997	465
CSTR M10 G	6202270	6410103	359
CSTR M12 G	6202331	6410111	359
CSTR M8 G	6202218	6410081	359
		/pc.	
DB A4	5991830	6356113	454
DB FT	6195671	6356109	359
DB FT	6195671	6356109	453
DBL 50 100 A4	6937455	6015630	454
DBL 50 100 FS	6746118	6015506	454
DBL 50 100 FT	6785414	6015565	454
DBL 50 150 FS	6746170	6015514	454
DBL 50 150 FT	6785476	6015573	454
DBL 50 200 A4	6937516	6015632	454
DBL 50 200 FS	6746231	6015522	454
DBL 50 200 FT	6785537	6015581	454
DBL 50 300 A4	6937578	6015633	454
DBL 50 300 FS	6746293	6015530	454
DBL 50 300 FT	6785599	6015603	454
DBL 50 400 A4	6937639	6015634	454
DBL 50 400 FS	6746354	6015549	454
DBL 50 400 FT	6785650	6015611	454
DBL 50 500 FS	5239154	6015552	454
DBL 50 500 FT	5239208	6015614	454
DBL 50 600 FS	5239161	6015555	454
DBL 50 600 FT	5239215	6015617	454
DBLG 20 050 FS	6961528	6015646	455
DBLG 20 050 FT	6042845	6015648	455
DBLG 20 100 FS	6961580	6015654	455
DBLG 20 100 FT	6042968	6015656	455
DBLG 20 150 FS	6279371	6015658	455
DBLG 20 150 FT	6043088	6015660	455
DBLG 20 200 FS	6961641	6015662	455

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
DBLG 20 200 FT	6043200	6015664	455
DBLG 20 300 FS	6961702	6015670	455
DBLG 20 300 FT	6043323	6015672	455
DBLG 20 400 FS	6961764	6015689	455
DBLG 20 400 FT	6043446	6015691	455
DBLG 20 500 FS	5239222	6015693	455
DBLG 20 500 FT	5239260	6015695	455
DBLG 20 600 FS	5239277	6015697	455
DBLG 20 600 FT	5239284	6015699	455
DBV 100 S A4	5886464	7130920	157
DBV 100 S DD	5850915	7131508	155
DBV 100 S DD	5850915	7131508	156
DBV 100 S FS	5047568	7130805	155
DBV 100 S FS	5047568	7130805	156
DBV 110 100 F DD	5850960	7131556	158
DBV 110 100 F FS	5712046	7131030	158
DBV 110 150 F FS	5995753	7131032	158
DBV 110 200 F DD	5809289	7131560	158
DBV 110 200 F FS	5712053	7131034	158
DBV 110 300 F DD	5874775	7131564	158
DBV 110 300 F FS	5712060	7131038	158
DBV 110 400 F DD	5809296	7131568	158
DBV 110 400 F FS	5712077	7131042	158
DBV 110 500 F DD	5874782	7131572	158
DBV 110 500 F FS	5712084	7131046	158
DBV 110 550 F FS	5712091	7131050	158
DBV 110 600 F DD	5995784	7131576	158
DBV 110 600 F FS	5995760	7131052	158
DBV 150 S DD	5874386	7131509	155
DBV 150 S DD	5874386	7131509	156
DBV 150 S FS	5047575	7130809	155
DBV 150 S FS	5047575	7130809	156
DBV 200 S A4	5886495	7130922	157
DBV 200 S DD	5809265	7131510	155
DBV 200 S DD	5809265	7131510	156
DBV 200 S FS	5047582	7130813	155
DBV 200 S FS	5047582	7130813	156
DBV 300 S A4	5886518	7130924	157
DBV 300 S DD	5874393	7131514	155
DBV 300 S DD	5874393	7131514	156
DBV 300 S FS	5047612	7130817	155
DBV 300 S FS	5047612	7130817	156
DBV 400 S A4	5886525	7130926	157
DBV 400 S DD	5809272	7131518	155
DBV 400 S DD	5809272	7131518	156
DBV 400 S FS	5047629	7130821	155
DBV 400 S FS	5047629	7130821	156
DBV 500 S A4	5886556	7130928	157
DBV 500 S DD	5874409	7131524	155
DBV 500 S DD	5874409	7131524	156
DBV 500 S FS	5047636	7130825	155
DBV 500 S FS	5047636	7130825	156
DBV 60 100 F A4	5886310	7130972	157
DBV 60 100 F DD	5874546	7131632	156
DBV 60 100 F DD	5874546	7131632	157
DBV 60 100 F FS	5047681	7130852	156
DBV 60 100 F FS	5047681	7130852	157
DBV 60 150 F DD	5874553	7131634	156
DBV 60 150 F DD	5874553	7131634	157
DBV 60 150 F FS	5047698	7130856	156
DBV 60 150 F FS	5047698	7130856	157
DBV 60 200 F A4	5886358	7130974	157
DBV 60 200 F DD	5874560	7131636	156
DBV 60 200 F DD	5874560	7131636	157
DBV 60 200 F FS	5047704	7130860	156
DBV 60 200 F FS	5047704	7130860	157
DBV 60 300 F A4	5886372	7130976	157
DBV 60 300 F DD	5874607	7131640	156
DBV 60 300 F DD	5874607	7131640	157
DBV 60 300 F FS	5047735	7130864	156
DBV 60 300 F FS	5047735	7130864	157
DBV 60 400 F A4	5886426	7130978	157
DBV 60 400 F DD	5874614	7131644	156
DBV 60 400 F DD	5874614	7131644	157
DBV 60 400 F FS	5047742	7130868	156
DBV 60 400 F FS	5047742	7130868	157
DBV 60 500 F A4	5886433	7130980	157
DBV 60 500 F DD	5874621	7131648	156
DBV 60 500 F DD	5874621	7131648	157
DBV 60 500 F FS	5047759	7130872	156
DBV 60 500 F FS	5047759	7130872	157
DBV 60 600 F A4	5886440	7130982	157

Type	GTIN	Item no.	Page
		/pc.	
DBV 60 600 F DD	5874669	7131652	156
DBV 60 600 F DD	5874669	7131652	157
DBV 60 600 F FS	5047766	7130876	156
DBV 60 600 F FS	5047766	7130876	157
DBV 600 S A4	5886563	7130930	157
DBV 600 S DD	5874416	7131527	155
DBV 600 S DD	5874416	7131527	156
DBV 600 S FS	5047643	7130829	155
DBV 600 S FS	5047643	7130829	156
DBV 85 100 F DD	5874676	7131672	158
DBV 85 100 F FS	5711964	7130990	156
DBV 85 100 F FS	5711964	7130990	158
DBV 85 200 F DD	5874683	7131676	158
DBV 85 200 F FS	5711995	7130994	156
DBV 85 200 F FS	5711995	7130994	158
DBV 85 300 F DD	5874713	7131680	158
DBV 85 300 F FS	5712008	7130998	156
DBV 85 300 F FS	5712008	7130998	158
DBV 85 400 F DD	5874720	7131684	158
DBV 85 400 F FS	5712015	7131002	156
DBV 85 400 F FS	5712015	7131002	158
DBV 85 500 F DD	5874737	7131688	158
DBV 85 500 F FS	5712022	7131006	156
DBV 85 500 F FS	5712022	7131006	158
DBV 85 600 F DD	5874744	7131692	158
DBV 85 600 F FS	5712039	7131010	156
DBV 85 600 F FS	5712039	7131010	158
DBV FS	5373070	6356055	359
DBV FS	5373070	6356055	454
DFAA 050 FS	6687695	7132110	152
DFAA 050 FT	6688685	7132115	152
		/pc.	
DFAA 100 A2	6257058	7136900	153
DFAA 100 DD	6252190	7131305	152
DFAA 100 FS	6249015	7128428	152
DFAA 150 FS	6526154	7128436	152
DFAA 200 A2	6257119	7136919	153
DFAA 200 A4	5866800	7136921	153
DFAA 200 DD	6252251	7131321	152
DFAA 200 FS	6249077	7128444	152
DFAA 300 A2	6257171	7136927	153
DFAA 300 A4	5866817	7136929	153
DFAA 300 DD	6252312	7131348	152
DFAA 300 FS	6249138	7128460	152
DFAA 400 A2	6257232	7136935	154
DFAA 400 A4	5866824	7136937	154
DFAA 400 DD	6252374	7131356	152
DFAA 500 A2	6257294	7136943	154
DFAA 500 A4	5866862	7136944	154
DFAA 500 FS	6249251	7128509	152
DFAA 550 DD	6252497	7131372	152
DFAA 550 FS	6249312	7128517	152
DFAA 600 A2	6257355	7136978	154
DFAA 600 A4	5866879	7136980	154
DFAA 600 DD	6252558	7131380	152
DFAA 600 FS	6249374	7128525	152
DFAAM 100 A2	5930723	7138720	153
DFAAM 100 A4	5930815	7138740	153
DFAAM 100 DD	5930655	7138680	153
DFAAM 100 FS	5930587	7138640	153
DFAAM 150 A2	5930754	7138722	153
DFAAM 150 A4	5930822	7138742	153
DFAAM 150 DD	5930662	7138682	153
DFAAM 150 FS	5930594	7138642	153
DFAAM 200 A2	5930761	7138724	153
DFAAM 200 A4	5930839	7138744	153
DFAAM 200 DD	5930679	7138684	153
DFAAM 200 FS	5930600	7138644	153
DFAAM 300 A2	5930778	7138726	153
DFAAM 300 A4	5930846	7138746	153
DFAAM 300 DD	5930686	7138686	153
DFAAM 300 FS	5930617	7138646	153
DFAAM 400 A2	5930785	7138728	153
DFAAM 400 A4	5930853	7138748	153
DFAAM 400 DD	5930693	7138688	153
DFAAM 400 FS	5930624	7138648	153
DFAAM 500 A2	5930792	7138730	153
DFAAM 500 A4	5930860	7138750	153
DFAAM 500 DD	5930709	7138690	153
DFAAM 500 FS	5930631	7138650	153
DFAAM 600 A2	5930808	7138732	153
DFAAM 600 A4	5930877	7138752	153

Type	GTIN	Item no.	Page
		/pc.	
DFAAM 600 DD	5930716	7138692	153
DFAAM 600 FS	5930648	7138652	153
DFB 45 100 DD	6252671	7131828	148
DFB 45 100 FS	6249855	7128819	148
DFB 45 150 DD	6027125	7131836	148
DFB 45 150 FS	6526338	7128827	148
DFB 45 200 DD	6252732	7131844	148
DFB 45 200 FS	6249916	7128835	148
DFB 45 300 DD	6252794	7131860	148
DFB 45 300 FS	6249978	7128851	148
DFB 45 400 DD	6252855	7131879	149
DFB 45 400 FS	6250035	7128886	149
DFB 45 500 DD	6252916	7131887	149
DFB 45 500 FS	6250097	7128908	149
DFB 45 550 DD	6252978	7131895	149
DFB 45 600 DD	6253036	7131909	149
DFB 45 600 FS	6250219	7128924	149
DFB 90 050 FS	6687688	7131780	150
DFB 90 050 FT	6688678	7131785	150
		/pc.	
DFB 90 100 A2	6254897	7134908	150
DFB 90 100 A4	5866633	7134982	150
DFB 90 100 DD	6251230	7130511	149
DFB 90 100 FS	6250752	7129610	149
DFB 90 150 DD	6015436	7130538	149
DFB 90 150 FS	6526451	7129629	149
DFB 90 200 A2	6254958	7134916	150
DFB 90 200 A4	5866640	7134988	150
DFB 90 200 DD	6251292	7130546	149
DFB 90 200 FS	6250813	7129637	149
DFB 90 300 A2	6255016	7134924	150
DFB 90 300 A4	5866657	7134990	150
DFB 90 300 DD	6251353	7130562	149
DFB 90 300 FS	6250875	7129653	149
DFB 90 400 A2	6255078	7134932	150
DFB 90 400 A4	5866664	7134992	150
DFB 90 400 DD	6251414	7130589	150
DFB 90 400 FS	6250936	7129688	150
DFB 90 500 A2	6255139	7134940	150
DFB 90 500 A4	5866671	7134994	150
DFB 90 500 DD	6251476	7130600	150
DFB 90 500 FS	6250998	7129718	150
DFB 90 550 FS	6251056	7129726	150
DFB 90 600 A2	6255191	7134967	150
DFB 90 600 A4	5866688	7134996	150
DFB 90 600 DD	6251599	7130627	150
DFB 90 600 FS	6251117	7129734	150
DFBM 45 100 DD	5928836	7138400	149
DFBM 45 100 FS	5928751	7138360	149
DFBM 45 150 DD	5928843	7138402	149
DFBM 45 150 FS	5928768	7138362	149
DFBM 45 200 DD	5928867	7138404	149
DFBM 45 200 FS	5928775	7138364	149
DFBM 45 300 DD	5928874	7138406	149
DFBM 45 300 FS	5928782	7138366	149
DFBM 45 400 DD	5928881	7138408	149
DFBM 45 400 FS	5928799	7138368	149
DFBM 45 500 DD	5928904	7138410	149
DFBM 45 500 FS	5928812	7138370	149
DFBM 45 600 DD	5928911	7138412	149
DFBM 45 600 FS	5928829	7138372	149
DFBM 90 100 A2	5929260	7138570	151
DFBM 90 100 A4	5929338	7138590	151
DFBM 90 100 DD	5929192	7138540	151
DFBM 90 100 FS	5929093	7138500	151
DFBM 90 150 A2	5929277	7138572	151
DFBM 90 150 A4	5929345	7138592	151
DFBM 90 150 DD	5929208	7138542	151
DFBM 90 150 FS	5929109	7138502	151
DFBM 90 200 A2	5929284	7138574	151
DFBM 90 200 A4	5929352	7138594	151
DFBM 90 200 DD	5929215	7138544	151
DFBM 90 200 FS	5929116	7138504	151
DFBM 90 300 A2	5929291	7138576	151
DFBM 90 300 A4	5929369	7138596	151
DFBM 90 300 DD	5929222	7138546	151
DFBM 90 300 FS	5929123	7138506	151
DFBM 90 400 A2	5929307	7138578	151
DFBM 90 400 A4	5929376	7138598	151
DFBM 90 400 DD	5929239	7138548	151
DFBM 90 400 FS	5929130	7138508	151

Type	GTIN	Item no.	Page
		/pc.	
DFBM 90 500 A2	5929314	7138580	151
DFBM 90 500 A4	5929383	7138600	151
DFBM 90 500 DD	5929246	7138550	151
DFBM 90 500 FS	5929147	7138510	151
DFBM 90 600 A2	5929321	7138582	151
DFBM 90 600 DD	5929253	7138552	151
DFBM 90 600 FS	5929154	7138512	151
DFBMV 100 A2	6040902	6040800	152
DFBMV 100 A4	6041138	6040820	152
DFBMV 100 DD	6040728	6040780	151
DFBMV 100 FS	6040544	6040760	151
DFBMV 150 A2	6040919	6040802	152
DFBMV 150 A4	6041145	6040822	152
DFBMV 150 FS	6040551	6040762	151
DFBMV 200 A2	6040988	6040804	152
DFBMV 200 A4	6041152	6040824	152
DFBMV 200 DD	6040797	6040784	151
DFBMV 200 FS	6040599	6040764	151
DFBMV 300 A2	6041015	6040806	152
DFBMV 300 A4	6041220	6040826	152
DFBMV 300 DD	6040834	6040786	151
DFBMV 300 FS	6040605	6040766	151
DFBMV 400 A2	6041022	6040808	152
DFBMV 400 A4	6041251	6040828	152
DFBMV 400 DD	6040841	6040788	151
DFBMV 400 FS	6040629	6040768	151
DFBMV 500 A2	6041039	6040810	152
DFBMV 500 A4	6041268	6040830	152
DFBMV 500 DD	6040865	6040790	151
DFBMV 500 FS	6040674	6040770	151
DFBMV 600 A2	6041107	6040812	152
DFBMV 600 A4	6041275	6040832	152
DFBMV 600 DD	6040896	6040792	151
DFBMV 600 FS	6040711	6040772	151
DFKM 100 DD	5931324	7138970	155
DFKM 100 FS	5931256	7138930	155
DFKM 150 FS	5931263	7138932	155
DFKM 200 DD	5931362	7138974	155
DFKM 200 FS	5931270	7138934	155
DFKM 300 DD	5931379	7138976	155
DFKM 400 DD	5931386	7138978	155
DFKM 400 FS	5931294	7138938	155
DFKM 500 DD	5931393	7138980	155
DFKM 500 FS	5931300	7138940	155
DFKM 600 DD	5931409	7138982	155
DFKM 600 FS	5931317	7138942	155
DFT 100 DD	6250332	7129319	154
DFT 100 FS	6248599	7128215	154
DFT 150 DD	6015313	7129327	154
DFT 150 FS	6526031	7128223	154
DFT 200 DD	6250394	7129335	154
DFT 200 FS	6248650	7128231	154
DFT 300 DD	6250455	7129351	154
DFT 300 FS	6248711	7128266	154
DFT 400 DD	6250516	7129386	154
DFT 400 FS	6248773	7128282	154
DFT 500 DD	6250578	7129408	154
DFT 500 FS	6248834	7128304	154
DFT 600 DD	6250691	7129424	154
DFT 600 FS	6248957	7128320	154
DFTM 100 DD	5930952	7138830	155
DFTM 100 FS	5930884	7138790	155
DFTM 150 DD	5930969	7138832	155
DFTM 150 FS	5930891	7138792	155
DFTM 200 DD	5931003	7138834	155
DFTM 200 FS	5930907	7138794	155
DFTM 300 DD	5931010	7138836	155
DFTM 300 FS	5930914	7138796	155
DFTM 400 DD	5931027	7138838	155
DFTM 400 FS	5930921	7138798	155
DFTM 500 DD	5931058	7138840	155
DFTM 500 FS	5930938	7138800	155
DFTM 600 DD	5931065	7138842	155
DFTM 600 FS	5930945	7138802	155
DGRR 100 A2	6687206	6001862	266
DGRR 100 FS	6687121	6001842	265
DGRR 100 FT	6687268	6001822	266
DGRR 150 A2	6687213	6001864	266
DGRR 150 FS	6687138	6001844	265

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
DGRR 150 FT	6687275	6001824	266
DGRR 200 A2	6687848	6001866	266
DGRR 200 FS	6687145	6001846	265
DGRR 200 FT	6687282	6001826	266
DGRR 300 A2	6687220	6001868	266
DGRR 300 FS	6687152	6001848	265
DGRR 300 FT	6687299	6001828	266
DGRR 400 A2	6687237	6001870	266
DGRR 400 FS	6687169	6001850	265
DGRR 400 FT	6687305	6001830	266
DGRR 50 A2	6687190	6001860	266
DGRR 50 FS	6687114	6001840	265
DGRR 50 FT	6687251	6001820	266
DGRR 500 A2	6687855	6001872	266
DGRR 500 FS	6687176	6001852	265
DGRR 500 FT	6687312	6001832	266
DGRR 600 A2	6687862	6001874	266
DGRR 600 FS	6687183	6001854	265
DGRR 600 FT	6687329	6001834	266
		/100 pc.	
DIN440 9 F	6480012	6408710	341
DK DRLU A2	6692347	6052810	146
DK DRLU A2	6692347	6052810	322
		price/m	
DKS 610 FT	6070091	6085326	85
DKS 620 FT	6070152	6085342	85
DKS 630 FT	6070213	6085369	85
DKS 640 FT	6070275	6085512	85
DKS 650 FT	6070336	6085539	85
DKS 660 FT	6070398	6085555	85
		/100 pc.	
DKU A2	6441372	6065600	147
DKU A2	6441372	6065600	322
		price/m	
DRL 075 FS	6385577	6052029	147
DRL 075 FS	6385577	6052029	320
DRL 075 FS	6385577	6052029	363
DRL 100 A2	6058877	6052878	147
DRL 100 A2	6058877	6052878	321
DRL 100 A4	5675679	6052980	147
DRL 100 A4	5675679	6052980	321
DRL 100 DD	6038770	6052703	147
DRL 100 DD	6038770	6052703	320
DRL 100 FS	6057979	6052096	147
DRL 100 FS	6057979	6052096	320
DRL 100 FT	6432370	6051340	147
DRL 100 FT	6432370	6051340	320
DRL 150 A2	5995838	6052886	147
DRL 150 A2	5995838	6052886	321
DRL 150 A4	5995845	6052982	147
DRL 150 DD	6038831	6052706	147
DRL 150 DD	6038831	6052706	320
DRL 150 FS	6058099	6052150	147
DRL 150 FS	6058099	6052150	320
DRL 150 FT	6432257	6051359	147
DRL 200 A2	6058938	6052894	147
DRL 200 A2	6058938	6052894	321
DRL 200 A4	5866169	6052981	321
DRL 200 A4	5866169	6052981	147
DRL 200 DD	6038893	6052709	147
DRL 200 DD	6038893	6052709	320
DRL 200 FS	6058150	6052207	147
DRL 200 FS	6058150	6052207	320
DRL 200 FT	6611898	6051367	320
DRL 200 FT	6611898	6051367	147
DRL 300 A2	6058990	6052908	147
DRL 300 A2	6058990	6052908	321
DRL 300 A4	6955817	6052983	321
DRL 300 A4	6955817	6052983	147
DRL 300 DD	6038954	6052712	147
DRL 300 DD	6038954	6052712	320
DRL 300 FS	6058273	6052304	147
DRL 300 FS	6058273	6052304	320
DRL 300 FT	6611775	6051383	320
DRL 300 FT	6611775	6051383	147
DRL 400 A2	6059058	6052932	147
DRL 400 A2	6059058	6052932	321
DRL 400 A4	5870883	6052984	321
DRL 400 A4	5870883	6052984	147

Type	GTIN	Item no.	Page
		price/m	
DRL 400 DD	6039012	6052715	147
DRL 400 DD	6039012	6052715	320
DRL 400 FS	6058396	6052401	147
DRL 400 FS	6058396	6052401	320
DRL 400 FT	6611713	6051413	320
DRL 400 FT	6611713	6051413	147
DRL 500 A2	6059119	6052959	147
DRL 500 A2	6059119	6052959	321
DRL 500 A4	5870890	6052985	147
DRL 500 DD	6039074	6052718	147
DRL 500 DD	6039074	6052718	320
DRL 500 FS	6058518	6052509	147
DRL 500 FS	6058518	6052509	320
DRL 500 FT	6087792	6051448	320
DRL 500 FT	6087792	6051448	147
DRL 550 DD	6039135	6052721	147
DRL 550 DD	6039135	6052721	320
DRL 550 FS	6058631	6052568	147
DRL 550 FS	6058631	6052568	320
DRL 600 A2	6059171	6052975	147
DRL 600 A2	6059171	6052975	321
DRL 600 A4	5866190	6052986	321
DRL 600 A4	5866190	6052986	147
DRL 600 DD	6039197	6052724	147
DRL 600 DD	6039197	6052724	320
DRL 600 FS	6058754	6052606	147
DRL 600 FS	6058754	6052606	320
DRL 600 FT	6595631	6051472	320
DRL 600 FT	6595631	6051472	147
DRL FAM 230 A2	6219605	6051192	204
DRL FAM 230 A2	6219605	6051192	325
DRL FAM 230 A4	6219698	6051210	204
DRL FAM 230 A4	6219698	6051210	325
DRL FAM 230 FT	6179824	6051222	204
DRL FAM 230 FT	6179824	6051222	325
DRL FAM 230 FT	6179824	6051222	336
DRL FAM 330 A2	6219636	6051194	204
DRL FAM 330 A2	6219636	6051194	325
DRL FAM 330 A4	6219704	6051212	204
DRL FAM 330 A4	6219704	6051212	325
DRL FAM 330 FT	6179855	6051224	204
DRL FAM 330 FT	6179855	6051224	325
DRL FAM 330 FT	6179855	6051224	336
DRL FAM 430 A2	6219643	6051196	204
DRL FAM 430 A2	6219643	6051196	325
DRL FAM 430 A4	6219711	6051214	204
DRL FAM 430 A4	6219711	6051214	325
DRL FAM 430 FT	6179862	6051226	204
DRL FAM 430 FT	6179862	6051226	325
DRL FAM 430 FT	6179862	6051226	336
DRL FAM 530 A2	6219650	6051198	204
DRL FAM 530 A2	6219650	6051198	325
DRL FAM 530 A4	6219728	6051216	204
DRL FAM 530 A4	6219728	6051216	325
DRL FAM 530 FT	6179879	6051228	204
DRL FAM 530 FT	6179879	6051228	325
DRL FAM 530 FT	6179879	6051228	336
DRL FAM 630 A2	6219667	6051200	204
DRL FAM 630 A2	6219667	6051200	325
DRL FAM 630 A4	6219759	6051218	204
DRL FAM 630 A4	6219759	6051218	325
DRL FAM 630 FT	6179886	6051230	204
DRL FAM 630 FT	6179886	6051230	325
DRL FAM 630 FT	6179886	6051230	336
		/pc.	
DRL H FT	6619047	6065012	148
DRL H FT	6619047	6065012	203
DRL H S A2	6619054	6065016	148
DRL H S A2	6619054	6065016	202
DRL H S FT	6689675	6065018	148
		price/m	
DRLU 050 A2	6031818	6052821	146
DRLU 050 A2	6031818	6052821	267
DRLU 050 A2	6031818	6052821	322
DRLU 050 DD	6657490	6052640	146
DRLU 050 DD	6657490	6052640	266
DRLU 050 DD	6657490	6052640	321
DRLU 050 FS	6029655	6052056	146
DRLU 050 FS	6029655	6052056	266
DRLU 050 FS	6029655	6052056	321
DRLU 100 A2	6031931	6052824	146
DRLU 100 A2	6031931	6052824	267

Type	GTIN	Item no.	Page
		price/m	
DRLU 100 A2	6031931	6052824	322
DRLU 100 A4	5021124	6052991	146
DRLU 100 A4	5021124	6052991	267
DRLU 100 A4	5021124	6052991	322
DRLU 100 DD	6657551	6052643	146
DRLU 100 DD	6657551	6052643	266
DRLU 100 DD	6657551	6052643	321
DRLU 100 FS	6029716	6052103	146
DRLU 100 FS	6029716	6052103	266
DRLU 100 FS	6029716	6052103	321
DRLU 150 A2	6031993	6052828	146
DRLU 150 A2	6031993	6052828	267
DRLU 150 A2	6031993	6052828	322
DRLU 150 A4	5691389	6052992	146
DRLU 150 A4	5691389	6052992	322
DRLU 150 DD	6657612	6052647	146
DRLU 150 DD	6657612	6052647	266
DRLU 150 DD	6657612	6052647	321
DRLU 150 FS	6030019	6052153	146
DRLU 150 FS	6030019	6052153	266
DRLU 150 FS	6030019	6052153	321
DRLU 200 A2	6032051	6052831	146
DRLU 200 A2	6032051	6052831	267
DRLU 200 A2	6032051	6052831	322
DRLU 200 A4	5021155	6052993	267
DRLU 200 A4	5021155	6052993	146
DRLU 200 A4	5021155	6052993	322
DRLU 200 DD	6657674	6052650	146
DRLU 200 DD	6657674	6052650	266
DRLU 200 DD	6657674	6052650	321
DRLU 200 FS	6030071	6052210	146
DRLU 200 FS	6030071	6052210	266
DRLU 200 FS	6030071	6052210	321
DRLU 300 A2	6032174	6052834	146
DRLU 300 A2	6032174	6052834	267
DRLU 300 A2	6032174	6052834	322
DRLU 300 A4	5021162	6052994	267
DRLU 300 A4	5021162	6052994	146
DRLU 300 A4	5021162	6052994	322
DRLU 300 DD	6336678	6052656	146
DRLU 300 DD	6336678	6052656	266
DRLU 300 DD	6336678	6052656	321
DRLU 300 FS	6031399	6052307	146
DRLU 300 FS	6031399	6052307	266
DRLU 300 FS	6031399	6052307	321
DRLU 400 A2	6032235	6052837	146
DRLU 400 A2	6032235	6052837	267
DRLU 400 A2	6032235	6052837	322
DRLU 400 A4	5021216	6052995	267
DRLU 400 A4	5021216	6052995	146
DRLU 400 A4	5021216	6052995	322
DRLU 400 DD	6336739	6052662	146
DRLU 400 DD	6336739	6052662	266
DRLU 400 DD	6336739	6052662	321
DRLU 400 FS	6031511	6052405	146
DRLU 400 FS	6031511	6052405	266
DRLU 400 FS	6031511	6052405	321
DRLU 500 A2	6032297	6052841	146
DRLU 500 A2	6032297	6052841	267
DRLU 500 A2	6032297	6052841	322
DRLU 500 A4	5021223	6052996	267
DRLU 500 A4	5021223	6052996	146
DRLU 500 A4	5021223	6052996	322
DRLU 500 DD	6336791	6052668	146
DRLU 500 DD	6336791	6052668	266
DRLU 500 DD	6336791	6052668	321
DRLU 500 FS	6031634	6052512	146
DRLU 500 FS	6031634	6052512	266
DRLU 500 FS	6031634	6052512	321
DRLU 550 DD	6336852	6052671	146
DRLU 550 DD	6336852	6052671	266
DRLU 550 DD	6336852	6052671	321
DRLU 550 FS	6031696	6052571	146
DRLU 550 FS	6031696	6052571	266
DRLU 550 FS	6031696	6052571	321
DRLU 600 A2	6032358	6052844	146
DRLU 600 A2	6032358	6052844	267
DRLU 600 A2	6032358	6052844	322
DRLU 600 A4	5021247	6052998	267
DRLU 600 A4	5021247	6052998	146
DRLU 600 A4	5021247	6052998	322
DRLU 600 DD	6336913	6052674	146
DRLU 600 DD	6336913	6052674	266

Type	GTIN	Item no.	Page
		price/m	
DRLU 600 DD	6336913	6052674	321
DRLU 600 FS	6031757	6052609	146
DRLU 600 FS	6031757	6052609	266
DRLU 600 FS	6031757	6052609	321
		/pc.	
DS 4 A2	5617884	6416594	444
DS 4 FS	6202997	6416551	444
DS 4 FT	6555611	6416586	444
DSK 25 A2	5706045	6416448	401
DSK 25 A4	5618485	6416450	401
DSK 25 FT	6229277	6416446	401
DSK 45 A2	6202751	6416489	407
DSK 45 A4	6818235	6416462	407
DSK 45 FT	6202812	6416500	407
DSK 47 A2	5018346	6416507	408
DSK 47 A4	5018407	6416511	408
DSK 47 FT	6894253	6416504	407
DSK 61 A2	6202935	6416527	414
DSK 61 A4	5403173	6416533	414
DSK 61 FT	6202874	6416519	414
		price/m	
EKS 610 FS	6542659	6056148	80
EKS 610 FT	6333677	6056776	81
EKS 620 FS	6114672	6056229	80
EKS 620 FT	6333738	6056792	81
EKS 630 FS	6389834	6056326	80
EKS 630 FT	6333790	6056806	81
EKS 640 FS	6625215	6056423	80
EKS 640 FT	6333493	6056970	81
EKS 650 FS	6625277	6056520	80
EKS 650 FT	6333554	6056989	81
EKS 660 FS	6389896	6056628	80
EKS 660 FT	6333615	6056997	81
ELB-L 20 DD	6029150	6103352	203
ELB-L 20 DD	6029150	6103352	318
ELB-L 20 FS	6420735	6103235	203
ELB-L 20 FS	6420735	6103235	318
ELB-L 20 FT	6289455	6103421	203
ELB-L 20 FT	6289455	6103421	318
		price/m	
ELB-L 30 DD	6029198	6103356	203
ELB-L 30 DD	6029198	6103356	318
ELB-L 30 FS	6420858	6103251	203
ELB-L 30 FS	6420858	6103251	318
ELB-L 30 FT	6308651	6103448	203
ELB-L 30 FT	6308651	6103448	318
		price/m	
ELB-L 40 DD	6029204	6103360	203
ELB-L 40 DD	6029204	6103360	318
ELB-L 40 FS	6420971	6103286	203
ELB-L 40 FS	6420971	6103286	318
ELB-L 40 FT	6308590	6103456	203
ELB-L 40 FT	6308590	6103456	318
		price/m	
ELB-L 50 DD	6029211	6103364	203
ELB-L 50 DD	6029211	6103364	318
ELB-L 50 FS	6421091	6103316	203
ELB-L 50 FS	6421091	6103316	318
ELB-L 50 FT	6308538	6103464	203
ELB-L 50 FT	6308538	6103464	318
		price/m	
ELB-L 60 DD	6029228	6103368	203
ELB-L 60 DD	6029228	6103368	318
ELB-L 60 FS	6421213	6103332	203
ELB-L 60 FS	6421213	6103332	318
ELB-L 60 FT	6308477	6103480	203
ELB-L 60 FT	6308477	6103480	318
		price/m	
ELB-L20 A2	5037354	6103614	203
ELB-L20 A2	5037354	6103614	319
ELB-L30 A2	5037361	6103618	203
ELB-L30 A2	5037361	6103618	319
ELB-L40 A2	5037378	6103622	203
ELB-L40 A2	5037378	6103622	319
ELB-L50 A2	5037385	6103626	203
ELB-L50 A2	5037385	6103626	319
ELB-L60 A2	5037415	6103630	203
ELB-L60 A2	5037415	6103630	319

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/100 pc.	
FL 1 TG	5150855	1488015	462
FL 2 TG	5150916	1488023	462
FL 3 TG	5150978	1488031	462
FL1-G M8 TG	5151036	1488074	462
FL2-G M10 TG	5151098	1488082	462
FL3-G M12 TG	5151159	1488090	462
FRS 8x16 F 8.8	6201259	6406963	341
FRS 8x25 F	6201372	6406998	341
FRS 8x35 F	6201433	6407048	341
		/pc.	
FVM 110 A2	6054992	6065930	129
FVM 110 DD	6054824	6065910	128
FVM 120 A2	6055050	6065934	129
FVM 120 DD	6054879	6065914	128
FVM 130 A2	6055067	6065936	129
FVM 130 DD	6054886	6065916	128
FVM 140 A2	6055074	6065938	129
FVM 140 DD	6054930	6065918	128
FVM 150 A2	6055111	6065940	129
FVM 150 DD	6054947	6065920	128
FVM 160 A2	6055128	6065942	129
FVM 160 DD	6054954	6065922	128
FVM 610 A2	6053971	6065730	56
FVM 610 A4	6054114	6065750	56
FVM 610 DD	6053797	6065710	55
FVM 615 A2	6053988	6065732	56
FVM 615 A4	6054152	6065752	56
FVM 615 DD	6053803	6065712	55
FVM 620 A2	6053995	6065734	56
FVM 620 A4	6054169	6065754	56
FVM 620 DD	6053858	6065714	55
FVM 630 A2	6054039	6065736	56
FVM 630 A4	6054213	6065756	56
FVM 630 DD	6053865	6065716	55
FVM 640 A2	6054046	6065738	56
FVM 640 A4	6054220	6065758	56
FVM 640 DD	6053872	6065718	55
FVM 650 A2	6054091	6065740	56
FVM 650 A4	6054237	6065760	56
FVM 650 DD	6053919	6065720	55
FVM 660 A2	6054107	6065742	56
FVM 660 A4	6054275	6065762	56
FVM 660 DD	6053926	6065722	55
FVM 810 DD	6054282	6065810	105
FVM 820 DD	6054343	6065814	105
FVM 830 DD	6054350	6065816	105
FVM 840 DD	6054398	6065818	105
FVM 850 DD	6054404	6065820	105
FVM 860 DD	6054466	6065822	105
GEV 36 A2	6013333	6016731	264
GEV 36 A4	6120253	6016764	264
GEV 36 FT	6013272	6016723	264
GEV 36 G	6307876	6016715	263
		price/m	
G-GRM 125 75 A2	5686491	6005556	256
G-GRM 125 75 A4	5771647	6005571	257
G-GRM 125 75 FT	5686415	6005526	255
G-GRM 125 75 G	5686453	6005541	254
G-GRM 150 100 A2	5686507	6005559	260
G-GRM 150 100 A4	5771654	6005574	261
G-GRM 150 100 FT	5686422	6005529	259
G-GRM 150 100 G	5686460	6005544	258
G-GRM 50 50 A2	5686477	6005550	248
G-GRM 50 50 A4	5771593	6005565	249
G-GRM 50 50 FT	5686392	6005520	247
G-GRM 50 50 G	5686439	6005535	246
G-GRM 75 50 A2	5686484	6005553	252
G-GRM 75 50 A4	5771609	6005568	253
G-GRM 75 50 FT	5686408	6005523	251
G-GRM 75 50 G	5686446	6005538	250
		/pc.	
GKB 34 A2	5694069	6016676	268
GKB 34 G	5694052	6016674	268

Type	GTIN	Item no.	Page
		/pc.	
GKS 34 A2	6013456	6016839	268
GKS 34 A4	6120437	6016859	268
GKS 34 FT	6013395	6016820	267
GKS 34 G	7261436	6016855	267
GKS 50 07 A4	5770947	6015310	269
GKS 50 07 FS	6421398	6015263	269
GKS 50 07 FT	6785353	6015271	269
GKS 50 11 A4	6937394	6015280	269
GKS 50 11 FS	6965847	6015276	269
GKS 50 11 FT	6965908	6015278	269
GKT 38 A2	6013579	6017045	218
GKT 38 A2	6013579	6017045	225
GKT 38 A2	6013579	6017045	235
GKT 38 A2	6013579	6017045	265
GKT 38 A2	6013579	6017045	269
GKT 38 A4	6120499	6017092	218
GKT 38 A4	6120499	6017092	225
GKT 38 A4	6120499	6017092	235
GKT 38 A4	6120499	6017092	265
GKT 38 A4	6120499	6017092	269
GKT 38 FT	6013630	6017061	218
GKT 38 FT	6013630	6017061	225
GKT 38 FT	6013630	6017061	235
GKT 38 FT	6013630	6017061	264
GKT 38 FT	6013630	6017061	269
GKT 38 G	6307937	6017037	217
GKT 38 G	6307937	6017037	224
GKT 38 G	6307937	6017037	234
GKT 38 G	6307937	6017037	264
GKT 38 G	6307937	6017037	269
		/100 pc.	
GMS 1 VP A2	5804895	1124683	511
GMS 1 VP A2	5804895	1124683	511
GMS 1 VP A4	5805137	1124723	511
GMS 1 VP FT	5486015	1124643	510
		/pc.	
GMS 170 A4	6952090	6015418	451
GMS 170 FS	6940875	6015400	451
		/100 pc.	
GMS 2 VP A2	5804901	1124685	511
GMS 2 VP A4	5805144	1124725	511
GMS 2 VP FT	5486022	1124645	511
GMS 2 VW 90 A2	5804994	1124699	516
GMS 2 VW 90 A2	5804994	1124699	516
GMS 2 VW 90 A4	5805236	1124739	516
GMS 2 VW 90 FT	5486091	1124659	516
		/pc.	
GMS 270 A4	6952151	6015419	451
GMS 270 FS	6940936	6015402	451
		/100 pc.	
GMS 3 O 4121 A2	5805076	1124711	515
GMS 3 O 4121 A4	5805298	1124751	515
GMS 3 O 4121 FT	5486152	1124671	515
GMS 3 O 4141 A2	5805083	1124713	515
GMS 3 O 4141 A4	5805304	1124753	515
GMS 3 O 4141 FT	5486169	1124673	514
GMS 3 VP A2	5804918	1124687	511
GMS 3 VP A2	5804918	1124687	512
GMS 3 VP A4	5805175	1124727	512
GMS 3 VP FT	5486039	1124647	512
GMS 3 VP L A2	5804949	1124693	513
GMS 3 VP L A4	5805205	1124733	513
GMS 3 VP L FT	5486060	1124653	513
GMS 3 VW 45 A2	5805052	1124707	515
GMS 3 VW 45 A4	5805274	1124747	515
GMS 3 VW 45 FT	5486138	1124667	515
GMS 3 VW 90 A2	5805007	1124701	517
GMS 3 VW 90 A2	5805007	1124701	517
GMS 3 VW 90 A4	5805243	1124741	517
GMS 3 VW 90 FT	5486107	1124661	517
		/pc.	
GMS 370 A4	6952212	6015420	451
GMS 370 FS	6940998	6015404	451
		/100 pc.	
GMS 4 VP A2	5804925	1124689	512
GMS 4 VP A4	5805182	1124729	512
GMS 4 VP FT	5486046	1124649	512
GMS 4 VP T A2	5804956	1124695	514
GMS 4 VP T A4	5805212	1124735	514
GMS 4 VP T FT	5486077	1124655	514
GMS 4 VW 45 A2	5805069	1124709	516

Type	GTIN	Item no.	Page
		/100 pc.	
GMS 4 VW 45 A4	5805281	1124749	516
GMS 4 VW 45 FT	5486145	1124669	516
GMS 4 VW 90 A2	5805014	1124703	517
GMS 4 VW 90 A2	5805014	1124703	518
GMS 4 VW 90 A4	5805250	1124743	518
GMS 4 VW 90 FT	5486114	1124663	517
		/pc.	
GMS 470 A4	6952274	6015421	451
GMS 470 FS	6941056	6015406	451
		/100 pc.	
GMS 5 VP A2	5804932	1124691	513
GMS 5 VP A4	5805199	1124731	513
GMS 5 VP FT	5486053	1124651	512
GMS 5 VP X A2	5804963	1124697	513
GMS 5 VP X A4	5805229	1124737	513
GMS 5 VP X FT	5486084	1124657	513
		/pc.	
GMS 570 A4	6952335	6015422	451
		/100 pc.	
GMS 6 KD A2	6559831	1124796	518
GMS 6 KD A4	6559848	1124798	518
GMS 6 KD FT	6559824	1124792	518
		/pc.	
GP 15 28 FT	6296354	6357008	524
GP 31 28 FT	6296415	6357016	525
GR BS	6784974	6017698	273
		/100 pc.	
GR KS 3.9 OR	5872887	6003750	270
GR KS 4.8 OR	5872894	6003754	270
		price/m	
GRM 105 100 A2	5149620	6002451	232
GRM 105 100 A4	5874904	6002475	233
GRM 105 100 FT	6021239	6002431	231
GRM 105 100 G	6020270	6002402	230
GRM 105 150 A2	5422624	6002455	232
GRM 105 150 A4	5874911	6002476	233
GRM 105 150 FT	6021352	6002433	231
GRM 105 150 G	6020393	6002404	230
GRM 105 200 A2	5149637	6002457	232
GRM 105 200 A4	5874928	6002477	233
GRM 105 200 FT	6021475	6002435	231
GRM 105 200 G	6020515	6002406	230
GRM 105 300 A2	5149644	6002460	232
GRM 105 300 A4	5874959	6002479	233
GRM 105 300 FT	6021598	6002437	231
GRM 105 300 G	6020638	6002408	230
GRM 105 400 A2	5149675	6002463	232
GRM 105 400 A4	5874966	6002481	233
GRM 105 400 FT	6021710	6002439	231
GRM 105 400 G	6020751	6002410	230
GRM 105 500 A2	5149682	6002466	232
GRM 105 500 A4	5874980	6002483	233
GRM 105 500 FT	6021956	6002443	231
GRM 105 500 G	6020997	6002415	230
GRM 105 600 A2	5771586	6002469	232
GRM 105 600 A4	5875017	6002485	233
GRM 105 600 FT	6022076	6002445	231
GRM 105 600 G	6021116	6002417	230
GRM 35 100 A2	5467700	6000055	215
GRM 35 100 A4	5360759	6000087	216
GRM 35 100 FT	5037200	6000071	214
GRM 35 100 G	5037149	6000062	213
GRM 35 150 A2	5467731	6000056	215
GRM 35 150 A4	5360766	6000089	216
GRM 35 150 FT	5037231	6000072	214
GRM 35 150 G	5037170	6000063	213
GRM 35 200 A2	5470724	6000057	215
GRM 35 200 A4	5360773	6000090	216
GRM 35 200 FT	5037248	6000073	214
GRM 35 200 G	5037187	6000064	213
GRM 35 300 A2	5470731	6000059	215
GRM 35 300 A4	5360780	6000091	216
GRM 35 300 FT	5037255	6000075	214
GRM 35 300 G	5037194	6000066	213
GRM 35 50 A2	5650591	6000054	215
GRM 35 50 A4	5978077	6000086	216
GRM 35 50 FT	5624820	6000069	214
GRM 35 50 G	5624813	6000060	213

Type	GTIN	Item no.	Page
		price/m	
GRM 55 100 A2	6101290	6001072	222
GRM 55 100 A4	5166016	6001088	223
GRM 55 100 FT	6814879	6001416	221
GRM 55 100 G	6858552	6001442	220
GRM 55 150 A2	6101351	6001074	222
GRM 55 150 A4	5166023	6001090	223
GRM 55 150 FT	6078912	6001418	221
GRM 55 150 G	6078974	6001444	220
GRM 55 200 4.8 G	5045274	6001447	220
GRM 55 200 4.8FT	5045281	6001421	221
GRM 55 200 A2	6101412	6001076	222
GRM 55 200 A4	5166061	6001091	223
GRM 55 200 FT	6814930	6001420	221
GRM 55 200 G	6858613	6001446	220
GRM 55 300 A2	6101771	6001078	222
GRM 55 300 A4	5166078	6001093	223
GRM 55 300 FT	6815050	6001424	221
GRM 55 300 G	6858675	6001448	220
GRM 55 400 A2	6102198	6001080	222
GRM 55 400 A4	5166085	6001095	223
GRM 55 400 FT	6815111	6001428	221
GRM 55 400 G	6858736	6001450	220
GRM 55 50 A2	5430933	6001070	222
GRM 55 50 A4	5431046	6001087	223
GRM 55 50 FT	5430940	6001415	221
GRM 55 50 G	5430957	6001441	220
GRM 55 500 A2	6102259	6001082	222
GRM 55 500 A4	5166122	6001097	223
GRM 55 500 FT	6815173	6001432	221
GRM 55 500 G	6858798	6001452	220
GRM 55 600 A2	6102310	6001085	222
GRM 55 600 A4	5166139	6001099	223
GRM 55 600 FT	6815234	6001436	221
GRM 55 600 G	6858859	6001454	220
		/pc.	
GRV 245 A4	6054312	6016688	263
GRV 245 DD	6054251	6016684	263
GRV 245 FS	6052578	6016680	263
GSV 34 A2	6013210	6016642	262
GSV 34 A4	6120079	6016648	262
GSV 34 FT	6013159	6016634	262
GSV 34 G	6520510	6016596	262
GUV 6 A2	6593880	6016574	263
GUV 6 FT	6593873	6016573	262
		/100 pc.	
GVMS 4 ASV A2	5804888	1124681	510
GVMS 4 ASV A4	5805120	1124715	510
GVMS 4 ASV FT	5486008	1124641	510
		price/m	
GW 40 80 FT	6002955	6003818	275
		/100 pc.	
HS M6x13 A2	5463399	1154990	270
HS M8x60 A4	5732570	1154975	270
		/pc.	
HTS 35	5477259	1125036	521
		price/m	
IKS 610 FS	6168439	6087116	84
IKS 620 FS	6335053	6087132	84
IKS 630 FS	6335114	6087140	84
IKS 640 FS	6335176	6087159	84
		/pc.	
IS 8 100 FT	6183197	6337112	426
IS 8 110 FT	6183258	6337120	426
IS 8 120 FT	5804550	6337139	426
IS 8 130 FT	5805038	6337147	426
IS 8 140 FT	5934936	6337155	426
IS 8 150 FT	6183494	6337163	426
IS 8 160 FT	5934752	6337171	426
IS 8 170 FT	6183616	6337198	426
IS 8 180 FT	5934875	6337201	426
IS 8 190 FT	5934219	6337228	426
IS 8 200 FT	6183791	6337236	426
IS 8 30 FT	6182770	6337031	426
IS 8 300 FT	6183852	6337244	426

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
IS 8 40 FT	6182831	6337058	426
IS 8 50 FT	6182893	6337066	426
IS 8 60 FT	6182954	6337074	426
IS 8 600 FT	6183913	6337252	426
IS 8 70 FT	6183012	6337082	426
IS 8 80 FT	6183074	6337090	426
IS 8 90 FT	6183135	6337104	426
IS 8 K 100 FT	6196814	6361218	425
IS 8 K 110 FT	6196876	6361234	425
IS 8 K 120 FT	6196937	6361250	425
IS 8 K 130 FT	6196999	6361277	425
IS 8 K 140 FT	6197057	6361293	425
IS 8 K 150 FT	6197118	6361315	425
IS 8 K 160 FT	6197170	6361331	425
IS 8 K 170 FT	6197231	6361366	425
IS 8 K 180 FT	6197293	6361382	425
IS 8 K 20 FT	6196333	6361021	425
IS 8 K 200 FT	6197415	6361420	425
IS 8 K 30 FT	6196395	6361056	425
IS 8 K 40 FT	6196456	6361072	425
IS 8 K 50 FT	6196517	6361099	425
IS 8 K 60 FT	6196579	6361110	425
IS 8 K 70 FT	6196630	6361137	425
IS 8 K 80 FT	6196692	6361153	425
IS 8 K 90 FT	6196753	6361188	425
IS 8 KS OR	5668077	6338519	343
IS 8 KS OR	5668077	6338519	426
K 11 262 FT	6359172	6015107	263
K 12 1818 FS	6208876	6437109	274
K12 1818 A2	6013036	6016421	274
K12 1818 A4	6804306	6016425	274
		/pc.	
KA-ASY FT	6346875	6346820	416
KA-AW 30 FT	6536832	6346715	388
KA-AW 80 FT	6536894	6346731	388
KAB GR A2	5807155	6220145	265
KAB GR FS	5677932	6220139	265
KAB GR FT	5807124	6220142	265
KA-E 45 FT	6340156	6346758	388
KA-EA FT	5703938	6346763	389
KA-SY FT	6346813	6346804	416
KI 8 AOX FT	6190638	6347088	427
KI 8 FT	6190515	6347053	426
KI 8 NOK FT	6190577	6347061	426
KI 8 VLK FT	6190997	6348157	427
KI 8 VLP FT	6190874	6347843	427
KI 8 VQP FT	6190935	6348106	427
KI8 CPS5-1-300FT	5849766	6347026	427
KI8 CPS5-1-400FT	5808541	6347030	427
KI8 CPS5-1-500FT	5849773	6347028	427
KI8 CPS5-2-300FT	5849780	6347036	428
KI8 CPS5-2-400FT	5808558	6347032	428
KI8 CPS5-2-500FT	5849810	6347038	428
KL 20 FT	6003013	6003850	270
KL 30 FT	6003075	6003869	270
KL1 10 S FT	6194292	6354106	470
KL1 15 S FT	6194353	6354114	470
KL1 20 S FT	6194414	6354122	470
KLL 32 A2	5849872	6221063	315
KLL 32 FT	5849841	6221061	315
KLL 32 MD A2	6654659	6221065	317
		/pc.	
KLL 52 A2	5849896	6221073	316
KLL 52 FT	5849889	6221071	315
KLL 52 MD A2	6654673	6221075	317
		/100 pc.	
KM M10 A4	5910985	6408930	270
KM M12 A4	5911043	6408940	270
KM M6 A4	6078615	6408970	270

Type	GTIN	Item no.	Page
		/100 pc.	
KM M8 A4	5910961	6408920	270
KNG G	6936199	6050375	360
		/pc.	
KS 23 35 A2	6013098	6016529	268
KS 23 35 FT	6012312	6015174	268
		/100 pc.	
KS GR A2	5694625	6062282	217
KS GR A2	5694625	6062282	224
KS GR A2	5694625	6062282	234
KS GR A2	5694625	6062282	267
		/pc.	
KS GR LBL	5903468	6017714	274
KS GR LGR	5848264	6017710	274
KS GR OR	5848288	6017712	274
KS GR SGN	5903475	6017715	274
KS GR ZGB	5848295	6017713	274
		/100 pc.	
KS KL A2	5694656	6062284	191
KS KL A2	5694656	6062284	196
KS KL A2	5694656	6062284	200
KS KL A2	5694656	6062284	298
KS KL A2	5694656	6062284	312
KS KR A2	5694618	6062280	22
		price/100	
KSB 2 PVC	6295395	6072909	158
KSB 4 PVC	6295579	6072895	158
		/pc.	
KSR-910 PE	6065172	6066712	356
KSR-915 PE	6065110	6066704	356
KTSMV 110 A2	5890317	6069134	127
KTSMV 110 DD	5890249	6069112	126
KTSMV 110 FS	5890157	6069090	126
KTSMV 120 A2	5890331	6069138	127
KTSMV 120 DD	5890263	6069116	126
KTSMV 120 FS	5890195	6069094	126
KTSMV 130 A2	5890348	6069140	127
KTSMV 130 DD	5890270	6069118	126
KTSMV 130 FS	5890201	6069096	126
KTSMV 140 A2	5890355	6069142	127
KTSMV 140 DD	5890287	6069120	126
KTSMV 140 FS	5890218	6069098	126
KTSMV 150 A2	5890362	6069144	127
KTSMV 150 DD	5890294	6069122	126
KTSMV 150 FS	5890225	6069100	126
KTSMV 160 A2	5890379	6069146	127
KTSMV 160 DD	5890300	6069124	126
KTSMV 160 FS	5890232	6069102	126
KTSMV 310 FS	5889441	6068900	22
KTSMV 320 FS	5889489	6068902	22
KTSMV 330 FS	5889496	6068904	22
KTSMV 610 A2	5889571	6068958	52
KTSMV 610 A4	5889649	6068980	52
KTSMV 610 DD	5890492	6068936	52
KTSMV 610 FS	5889502	6068914	52
KTSMV 615 A2	5889588	6068960	52
KTSMV 615 A4	5889656	6068982	52
KTSMV 615 DD	5890508	6068938	52
KTSMV 615 FS	5889519	6068916	52
KTSMV 620 A2	5889595	6068962	52
KTSMV 620 A4	5889663	6068984	52
KTSMV 620 DD	5890515	6068940	52
KTSMV 620 FS	5889526	6068918	52
KTSMV 630 A2	5889601	6068964	52
KTSMV 630 A4	5889670	6068986	52
KTSMV 630 DD	5890522	6068942	52
KTSMV 630 FS	5889533	6068920	52
KTSMV 640 A2	5889618	6068966	52
KTSMV 640 A4	5889687	6068988	52
KTSMV 640 DD	5890560	6068944	52
KTSMV 640 FS	5889540	6068922	52
KTSMV 650 A2	5889625	6068968	52
KTSMV 650 A4	5889717	6068990	52
KTSMV 650 DD	5890577	6068946	52
KTSMV 650 FS	5889557	6068924	52
KTSMV 660 A2	5889632	6068970	52
KTSMV 660 A4	5889724	6068992	52

Type	GTIN	Item no.	Page
		/pc.	
KTSMV 660 DD	5890584	6068948	52
KTSMV 660 FS	5889564	6068926	52
KTSMV 810 DD	5889847	6069024	104
KTSMV 810 FS	5889731	6069002	104
KTSMV 820 DD	5889861	6069028	104
KTSMV 820 FS	5889793	6069006	104
KTSMV 830 DD	5889908	6069030	104
KTSMV 830 FS	5889809	6069008	104
KTSMV 840 DD	5889915	6069032	104
KTSMV 840 FS	5889816	6069010	104
KTSMV 850 DD	5889922	6069034	104
KTSMV 850 FS	5889823	6069012	104
KTSMV 860 DD	5889960	6069036	104
KTSMV 860 FS	5889830	6069014	104
KU 3 A2	5706014	6348876	402
KU 3 A4	5706021	6348877	402
KU 3 FT	6340217	6348874	401
KU 3 V A2	5706038	6348884	402
KU 3 V FS	5354826	6348881	402
KU 3 V FT	5354833	6348883	402
KU 5 V A2	5018360	6348925	409
KU 5 V FT	6901456	6348920	408
KU 7 AOX FT	6191598	6349218	415
KU 7 FT	6191413	6349102	414
KU 7 NOX FT	6191352	6349056	415
KU 7 VQP A2	6191536	6349196	415
KU 7 VQP FT	6191475	6349153	415
KUS 5 FT	6168910	6348904	408
KUS 5 NOK A2	6437832	6348947	408
KUS 5 NOK FT	6437771	6348939	408
KUS 7 A2	6191659	6349277	415
		price/pair	
KWH 10 A2	6195138	6355315	471
KWH 10 FT	6194537	6355048	470
KWH 15 A2	6195190	6355323	471
KWH 15 FT	6194599	6355056	470
KWH 20 A2	6195251	6355331	471
KWH 20 FT	6194650	6355064	470
KWH 25 A2	6195312	6355358	471
KWH 25 FT	6194711	6355072	470
KWH 5 A2	6195077	6355307	471
KWH 5 FT	6194476	6355021	470
KWS 10 A2	6195435	6355412	470
KWS 10 FT	6194834	6355226	470
KWS 15 A2	6195497	6355420	470
KWS 15 FT	6194896	6355234	470
KWS 20 A2	6195558	6355439	470
KWS 20 FT	6194957	6355242	470
KWS 25 A2	6195619	6355447	470
KWS 25 FT	6195015	6355250	470
KWS 5 A2	6195374	6355404	470
KWS 5 FT	6194773	6355218	470
		/pc.	
LAA 1120 R3 FS	6445486	6225910	313
LAA 1120 R3 FT	6445554	6225930	313
LAA 1130 R3 FS	6445493	6225912	313
LAA 1130 R3 FT	6445561	6225932	313
LAA 1140 R3 FS	6445509	6225914	313
LAA 1140 R3 FT	6445578	6225934	313
LAA 1150 R3 FS	6445530	6225916	313
LAA 1150 R3 FT	6445592	6225938	313
LAA 1160 R3 FS	6445547	6225918	313
LAA 1160 R3 FT	6445608	6225940	313
LAA 620 R3 A2	6567393	6225882	300
LAA 620 R3 A4	6567461	6225894	300
		/pc.	
LAA 620 R3 FS	6445387	6225850	300
LAA 620 R3 FT	6445431	6225870	300
LAA 630 R3 A2	6567409	6225884	300
LAA 630 R3 A4	6567478	6225896	300
		/pc.	
LAA 630 R3 FS	6445394	6225852	300
LAA 630 R3 FT	6445448	6225872	300
LAA 640 R3 A2	6567416	6225886	300
LAA 640 R3 A4	6567485	6225898	300

Type	GTIN	Item no.	Page
		/pc.	
LAA 640 R3 FS	6445400	6225854	300
LAA 640 R3 FT	6445455	6225874	300
LAA 650 R3 A2	6567423	6225888	300
LAA 650 R3 A4	6567515	6225900	300
		/pc.	
LAA 650 R3 FS	6445417	6225856	300
LAA 650 R3 FT	6445462	6225876	300
LAA 660 R3 A2	6567454	6225890	300
LAA 660 R3 A4	6567522	6225902	300
		/pc.	
LAA 660 R3 FS	6445424	6225858	300
LAA 660 R3 FT	6445479	6225878	300
LAAD 200 R3 A2	6806195	6226361	324
LAAD 200 R3 A4	6806249	6226381	324
		/pc.	
LAAD 200 R3 FS	6536313	6226310	324
LAAD 200 R3 FT	6536399	6226330	324
LAAD 300 R3 A2	6806201	6226363	324
LAAD 300 R3 A4	6806256	6226383	324
		/pc.	
LAAD 300 R3 FS	6536320	6226312	324
LAAD 300 R3 FT	6536405	6226332	324
LAAD 400 R3 A2	6806218	6226365	324
LAAD 400 R3 A4	6806263	6226385	324
		/pc.	
LAAD 400 R3 FS	6536337	6226314	324
LAAD 400 R3 FT	6536436	6226334	324
LAAD 500 R3 A2	6806225	6226367	324
LAAD 500 R3 A4	6806270	6226387	324
		/pc.	
LAAD 500 R3 FS	6536344	6226316	324
LAAD 500 R3 FT	6536443	6226338	324
LAAD 600 R3 A2	6806232	6226369	324
LAAD 600 R3 A4	6806287	6226389	324
		/pc.	
LAAD 600 R3 FS	6536375	6226318	324
LAAD 600 R3 FT	6536467	6226340	324
LAB 20 A2	6261796	7164017	318
LAB 20 FT	6163397	6220436	318
LAB 30 A2	6261857	7164025	318
LAB 30 FT	6163458	6220444	318
LAB 40 A2	6261918	7164033	318
LAB 40 FT	6163519	6220452	318
LAB 50 A2	6261970	7164041	318
LAB 50 FT	6163571	6220460	318
LAB 60 A2	6262038	7164068	318
LAB 60 FT	6163632	6220479	318
LAL 70 A2	6164479	6221017	319
LAL 70 FS	6164417	6221009	320
LALB 20 FT	6166152	6221858	317
LALB 30 FT	6166213	6221866	317
LALB 40 FT	6166275	6221874	317
LALB 50 FT	6166336	6221882	317
LALB 60 FT	6166398	6221890	317
LAS 110 A2	6938117	6221432	311
LAS 110 FS	6165254	6221416	311
LAS 110 FT	6165315	6221424	311
LAS 60 A2	6165193	6221386	298
LAS 60 FS	6165070	6221351	297
LAS 60 FT	6165131	6221378	297
LAW FT	6165438	6221513	317
LAW FT	6165438	6221513	320
LB 90 1120 R3 FS	6443871	6225122	312
LB 90 1120 R3 FT	6443932	6225142	312
LB 90 1130 R3 FS	6443895	6225124	312
LB 90 1130 R3 FT	6443949	6225144	312
LB 90 1140 R3 FS	6443901	6225126	312
LB 90 1140 R3 FT	6443956	6225146	312
LB 90 1150 R3 FS	6443918	6225128	312
LB 90 1150 R3 FT	6443970	6225150	312
LB 90 1160 R3 FS	6443925	6225130	312
LB 90 1160 R3 FT	6443987	6225152	312
LB 90 620 R3 A2	6443703	6225082	299
LB 90 620 R3 A4	6443758	6225102	299
LB 90 620 R3 FS	6443604	6225042	299
LB 90 620 R3 FT	6443659	6225062	299

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
LB 90 630 R3 A2	6443710	6225084	299
LB 90 630 R3 A4	6443765	6225104	299
LB 90 630 R3 FS	6443611	6225044	299
LB 90 630 R3 FT	6443666	6225064	299
LB 90 640 R3 A2	6443727	6225086	299
LB 90 640 R3 A4	6443772	6225106	299
LB 90 640 R3 FS	6443628	6225046	299
LB 90 640 R3 FT	6443673	6225066	299
LB 90 650 R3 A2	6443734	6225088	299
LB 90 650 R3 A4	6443789	6225108	299
LB 90 650 R3 FS	6443635	6225048	299
LB 90 650 R3 FT	6443680	6225068	299
LB 90 660 R3 A2	6443741	6225090	299
LB 90 660 R3 A4	6443796	6225110	299
LB 90 660 R3 FS	6443642	6225050	299
LB 90 660 R3 FT	6443697	6225070	299
LBD 90 200 R3 A2	6534784	6226050	323
LBD 90 200 R3 A4	6534876	6226070	323
LBD 90 200 R3 FS	6532780	6225990	323
LBD 90 200 R3 FT	6534654	6226010	323
LBD 90 300 R3 A2	6534814	6226052	323
LBD 90 300 R3 A4	6534883	6226072	323
LBD 90 300 R3 FS	6532797	6225992	323
LBD 90 300 R3 FT	6534661	6226012	323
LBD 90 400 R3 A2	6534821	6226054	323
LBD 90 400 R3 A4	6534890	6226074	323
LBD 90 400 R3 FS	6532803	6225994	323
LBD 90 400 R3 FT	6534678	6226014	323
LBD 90 500 R3 A2	6534838	6226056	323
LBD 90 500 R3 A4	6534906	6226076	323
LBD 90 500 R3 FS	6532810	6225996	323
LBD 90 500 R3 FT	6534692	6226018	323
LBD 90 600 R3 A2	6534845	6226058	323
LBD 90 600 R3 A4	6534937	6226078	323
LBD 90 600 R3 FS	6532827	6225998	323
LBD 90 600 R3 FT	6534708	6226020	323
		price/m	
LCIS 1120 6 FT	6431632	6209820	305
LCIS 1130 6 FT	6431649	6209822	305
LCIS 1140 6 FT	6431656	6209824	305
LCIS 1145 6 FT	6540525	6209825	305
LCIS 1150 6 FT	6431663	6209826	305
LCIS 1160 6 FT	6431670	6209828	305
LCIS 620 3 FS	6487578	6209610	284
LCIS 620 3 FT	6431731	6209721	285
LCIS 620 6 A2	6431687	6207252	288
LCIS 620 6 A4	6431960	6207202	289
LCIS 620 6 FS	6432035	6209630	286
LCIS 620 6 FT	6431786	6209643	287
LCIS 630 3 FS	6487585	6209612	284
LCIS 630 3 FT	6431748	6209723	285
LCIS 630 6 A2	6431694	6207254	288
LCIS 630 6 A4	6431977	6207204	289
LCIS 630 6 FS	6432042	6209632	286
LCIS 630 6 FT	6431793	6209645	287
LCIS 640 3 FS	6487592	6209614	284
LCIS 640 3 FT	6431755	6209725	285
LCIS 640 6 A2	6431700	6207256	288
LCIS 640 6 A4	6431984	6207206	289
LCIS 640 6 FS	6432059	6209634	286
LCIS 640 6 FT	6431809	6209647	287
LCIS 650 3 FS	6487608	6209616	284
LCIS 650 3 FT	6431762	6209727	285
LCIS 650 6 A2	6431717	6207258	288
LCIS 650 6 A4	6431991	6207208	289
LCIS 650 6 FS	6432066	6209636	286
LCIS 650 6 FT	6431823	6209649	287
LCIS 660 3 FS	6487615	6209618	284
LCIS 660 3 FT	6431779	6209729	285
LCIS 660 6 A2	6431724	6207260	288
LCIS 660 6 A4	6432004	6207210	289
LCIS 660 6 FS	6432080	6209638	286
LCIS 660 6 FT	6431847	6209651	287
		/pc.	
LDVG 60 FT	6464623	6208970	296
LEB 25 DD	6089116	6221216	320
LEB 25 FS	6164714	6221203	320
LEB 50 DD	6089239	6221259	320
LEB 50 FS	6164837	6221246	320

Type	GTIN	Item no.	Page
		price/m	
LG 112 VS 3 FS	5064480	6216404	303
LG 112 VS 3 FT	5065210	6216423	304
LG 112 VS 6 FS	5065289	6216442	307
LG 112 VS 6 FT	5065371	6216465	308
LG 112 VS6 A2	6082964	6216492	309
LG 113 VS 3 FS	5064497	6216407	303
LG 113 VS 3 FT	5065227	6216426	304
LG 113 VS 6 FS	5065319	6216445	307
LG 113 VS 6 FT	5065388	6216468	308
LG 113 VS6 A2	6039425	6216493	309
LG 114 VS 3 FS	5064503	6216410	303
LG 114 VS 3 FT	5065258	6216429	304
LG 114 VS 6 FS	5065326	6216448	307
LG 114 VS 6 FT	5065395	6216471	308
LG 114 VS6 A2	6082971	6216495	309
LG 115 VS 3 FS	5064534	6216413	303
LG 115 VS 3 FT	5065265	6216432	304
LG 115 VS 6 FS	5065333	6216451	307
LG 115 VS 6 FT	5065401	6216474	308
LG 115 VS6 A2	6082988	6216497	309
LG 116 VS 3 FS	5065203	6216416	303
LG 116 VS 3 FT	5065272	6216435	304
LG 116 VS 6 FS	5065340	6216454	307
LG 116 VS 6 FT	5065432	6216477	308
LG 116 VS6 A2	6039470	6216499	309
LG 620 VS 3 FS	5064022	6208538	290
LG 620 VS 3 FS	5064022	6208538	330
LG 620 VS 3 FT	5434153	6208562	292
LG 620 VS 3 FT	5434153	6208562	330
LG 620 VS 6 FS	5064251	6208627	291
LG 620 VS 6 FS	5064251	6208627	331
LG 620 VS 6 FT	5064329	6208650	293
LG 620 VS 6 FT	5064329	6208650	331
LG 620 VS6 A2	5064411	6208700	294
LG 620 VS6 A2	5064411	6208700	332
LG 620 VS6 A4	6159314	6101200	295
LG 620 VS6 A4	6159314	6101200	332
LG 630 VS 3 FS	5064053	6208541	290
LG 630 VS 3 FS	5064053	6208541	330
LG 630 VS 3 FT	5434160	6208566	292
LG 630 VS 3 FT	5434160	6208566	330
LG 630 VS 6 FS	5064268	6208630	291
LG 630 VS 6 FS	5064268	6208630	331
LG 630 VS 6 FT	5064350	6208653	293
LG 630 VS 6 FT	5064350	6208653	331
LG 630 VS6 A2	5064428	6208703	294
LG 630 VS6 A2	5064428	6208703	332
LG 630 VS6 A4	6514038	6101208	295
LG 630 VS6 A4	6514038	6101208	332
LG 640 VS 3 FS	5064060	6208544	290
LG 640 VS 3 FS	5064060	6208544	330
LG 640 VS 3 FT	5434207	6208570	292
LG 640 VS 3 FT	5434207	6208570	330
LG 640 VS 6 FS	5064299	6208633	291
LG 640 VS 6 FS	5064299	6208633	331
LG 640 VS 6 FT	5064367	6208656	293
LG 640 VS 6 FT	5064367	6208656	331
LG 640 VS6 A2	5064435	6208706	294
LG 640 VS6 A2	5064435	6208706	332
LG 640 VS6 A4	5022114	6101216	295
LG 640 VS6 A4	5022114	6101216	332
LG 650 VS 3 FS	5064077	6208547	290
LG 650 VS 3 FS	5064077	6208547	330
LG 650 VS 3 FT	5434214	6208574	292
LG 650 VS 3 FT	5434214	6208574	330
LG 650 VS 6 FS	5064305	6208636	291
LG 650 VS 6 FS	5064305	6208636	331
LG 650 VS 6 FT	5064374	6208659	293
LG 650 VS 6 FT	5064374	6208659	331
LG 650 VS6 A2	5064442	6208709	294
LG 650 VS6 A2	5064442	6208709	332
LG 650 VS6 A4	5022121	6101223	295
LG 650 VS6 A4	5022121	6101223	332
LG 660 VS 3 FS	5064084	6208550	290
LG 660 VS 3 FS	5064084	6208550	330
LG 660 VS 3 FT	5434221	6208578	292
LG 660 VS 3 FT	5434221	6208578	330
LG 660 VS 6 FS	5064312	6208639	291
LG 660 VS 6 FS	5064312	6208639	331
LG 660 VS 6 FT	5064381	6208661	293
LG 660 VS 6 FT	5064381	6208661	331
LG 660 VS6 A2	5064473	6208712	294

Type	GTIN	Item no.	Page
		price/m	
LG 660 VS6 A2	5064473	6208712	332
LG 660 VS6 A4	6524952	6101232	295
LG 660 VS6 A4	6524952	6101232	332
		/pc.	
LGBE 1120 FS	6445042	6225490	314
LGBE 1120 FT	6445097	6225510	314
LGBE 1130 FS	6445059	6225492	314
LGBE 1130 FT	6445103	6225512	314
LGBE 1140 FS	6445066	6225494	314
LGBE 1140 FT	6445110	6225514	314
LGBE 1150 FS	6445073	6225496	314
LGBE 1150 FT	6445134	6225518	314
LGBE 1160 FS	6445080	6225498	314
LGBE 1160 FT	6445141	6225520	314
LGBE 620 A2	6567218	6225460	302
LGBE 620 A4	6567287	6225480	302
LGBE 620 FS	6444885	6225450	301
LGBE 620 FT	6444960	6225470	301
LGBE 630 A2	6567225	6225462	302
LGBE 630 A4	6567300	6225482	302
LGBE 630 FS	6444892	6225452	301
LGBE 630 FT	6445004	6225472	301
LGBE 640 A2	6567232	6225464	302
LGBE 640 A4	6567348	6225484	302
LGBE 640 FS	6444908	6225454	301
LGBE 640 FT	6445011	6225474	301
LGBE 650 A2	6567249	6225466	302
LGBE 650 A4	6567355	6225486	302
LGBE 650 FS	6444946	6225456	301
LGBE 650 FT	6445028	6225476	301
LGBE 660 A2	6567270	6225468	302
LGBE 660 A4	6567362	6225488	302
LGBE 660 FS	6444953	6225458	301
LGBE 660 FT	6445035	6225478	301
LGBED 200 FS	6536078	6226210	325
LGBED 200 FT	6536122	6226230	325
LGBED 300 FS	6536085	6226212	325
LGBED 300 FT	6536269	6226232	325
LGBED 400 FS	6536092	6226214	325
LGBED 400 FT	6536139	6226234	325
LGBED 500 FS	6536115	6226216	325
LGBED 500 FT	6536153	6226238	325
LGBED 600 FS	6536108	6226218	325
LGBED 600 FT	6536160	6226240	325
LGVG 110 A2	6039531	6216648	311
LGVG 110 FS	5065739	6216650	310
LGVG 110 FT	5065746	6216653	310
LGVG 60 A2	5065647	6208947	297
LGVG 60 A2	5065647	6208947	336
LGVG 60 A4	5046370	6208932	297
LGVG 60 A4	5046370	6208932	336
LGVG 60 FS	5065623	6208941	297
LGVG 60 FS	5065623	6208941	335
LGVG 60 FT	5065630	6208944	297
LGVG 60 FT	5065630	6208944	335
LKS 40 A2	6295630	6017134	316
LKS 40 FS	6164530	6221076	316
LKS 40 FT	6164592	6221084	316
LKS 60 4 A2	6015252	6221130	316
LKS 60 4 A4	6524839	6221157	316
LKS 60 4 FT	6164653	6221122	316
LKS 60 5 FT	6175512	6232485	317
LMFV 1120 FS	6443345	6225750	311
LMFV 1120 FT	6443390	6225770	311
LMFV 1130 FS	6443352	6225752	311
LMFV 1130 FT	6443406	6225772	311
LMFV 1140 FS	6443369	6225754	311
LMFV 1140 FT	6443413	6225774	311
LMFV 1150 FS	6443376	6225756	311
LMFV 1150 FT	6443437	6225778	311
LMFV 1160 FS	6443383	6225758	311
LMFV 1160 FT	6443444	6225780	311
LMFV 620 FS	6443246	6225710	297
LMFV 620 FT	6443291	6225730	297
LMFV 630 FS	6443253	6225712	297
LMFV 630 FT	6443307	6225732	297
LMFV 640 FS	6443260	6225714	297
LMFV 640 FT	6443314	6225734	297
LMFV 650 FS	6443277	6225716	297

Type	GTIN	Item no.	Page
		/pc.	
LMFV 650 FT	6443321	6225736	297
LMFV 660 FS	6443284	6225718	297
LMFV 660 FT	6443338	6225738	297
LT 1120 R3 FS	6444298	6225290	313
LT 1120 R3 FT	6444403	6225310	313
LT 1130 R3 FS	6444304	6225292	313
LT 1130 R3 FT	6444410	6225312	313
LT 1140 R3 FS	6444342	6225294	313
LT 1140 R3 FT	6444427	6225314	313
LT 1150 R3 FS	6444359	6225296	313
LT 1150 R3 FT	6444472	6225318	313
LT 1160 R3 FS	6444366	6225298	313
LT 1160 R3 FT	6444489	6225320	313
LT 620 R3 A2	6444199	6225250	300
LT 620 R3 A4	6444243	6225270	300
LT 620 R3 FS	6444090	6225210	299
LT 620 R3 FT	6444144	6225230	299
LT 630 R3 A2	6444205	6225252	300
LT 630 R3 A4	6444250	6225272	300
LT 630 R3 FS	6444106	6225212	299
LT 630 R3 FT	6444151	6225232	299
LT 640 R3 A2	6444212	6225254	300
LT 640 R3 A4	6444267	6225274	300
LT 640 R3 FS	6444113	6225214	299
LT 640 R3 FT	6444168	6225234	299
LT 650 R3 A2	6444229	6225256	300
LT 650 R3 A4	6444274	6225276	300
LT 650 R3 FS	6444120	6225216	299
LT 650 R3 FT	6444175	6225236	299
LT 660 R3 A2	6444236	6225258	300
LT 660 R3 A4	6444281	6225278	300
LT 660 R3 FS	6444137	6225218	299
LT 660 R3 FT	6444182	6225238	299
LTD 200 R3 A2	6535910	6226160	324
LTD 200 R3 A4	6535989	6226180	324
LTD 200 R3 FS	6535422	6226100	323
LTD 200 R3 FT	6535675	6226120	323
LTD 300 R3 A2	6535927	6226162	324
LTD 300 R3 A4	6536016	6226182	324
LTD 300 R3 FS	6535439	6226102	323
LTD 300 R3 FT	6535682	6226122	323
LTD 400 R3 A2	6535958	6226164	324
LTD 400 R3 A4	6536023	6226184	324
LTD 400 R3 FS	6535446	6226104	323
LTD 400 R3 FT	6535712	6226124	323
LTD 500 R3 A2	6535965	6226166	324
LTD 500 R3 A4	6536030	6226186	324
LTD 500 R3 FS	6535477	6226106	323
LTD 500 R3 FT	6535736	6226128	323
LTD 600 R3 A2	6535972	6226168	324
LTD 600 R3 A4	6536047	6226188	324
LTD 600 R3 FS	6535484	6226108	323
LTD 600 R3 FT	6535743	6226130	323
		price/m	
LTK-K 25 G	6936137	6050370	360
LTR 3000 FS	6943876	6055810	362
LTR 6000 FS	6943937	6055812	362
LTS 100 FS	5247135	6075024	355
LTS 50 FS	6935956	6075000	353
LTS 50 FT	6936014	6075005	354
		/pc.	
LTS B DD	5453451	6074901	358
LTS K DD	5453475	6074921	358
LTS T DD	5453468	6074912	358
LVG 110 A2	5623885	6216550	310
LVG 110 FS	5065678	6216545	310
LVG 110 FT	5065685	6216548	310
LVG 60 A2	5065579	6208846	296
LVG 60 A2	5065579	6208846	335
LVG 60 A4	6666799	6208835	296
LVG 60 A4	6666799	6208835	335
LVG 60 FS	5065555	6208840	296
LVG 60 FS	5065555	6208840	335
LVG 60 FT	5065562	6208843	296
LVG 60 FT	5065562	6208843	335

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
LWVG 110 A2	5065708	6216590	310
LWVG 110 FS	5065692	6216587	310
LWVG 60 A2	5065616	6208898	297
LWVG 60 A2	5065616	6208898	335
LWVG 60 A4	5022084	6208891	297
LWVG 60 A4	5022084	6208891	335
LWVG 60 FS	5065586	6208895	296
LWVG 60 FS	5065586	6208895	335
MAH 050 FS	6765553	6358500	451
MAH 075 FS	6874699	6358510	451
MAH 100 FS	6765676	6358527	451
MAH 150 FS	6765737	6358535	451
MAH 200 FS	6765799	6358543	451
MAH 35 100 FS	5364061	6358690	450
MAH 35 200 FS	5364078	6358692	450
MAH 35 300 FS	5364085	6358694	450
MAH 60 100 FS	6939374	6358705	451
MAH 60 100 FT	6947171	6358752	451
MAH 60 150 FS	6939435	6358709	451
MAH 60 150 FT	6947232	6358756	451
MAH 60 200 FS	6939497	6358713	451
MAH 60 200 FT	6947294	6358760	451
MAH 60 300 FS	6939558	6358717	451
MAH 60 300 FT	6947355	6358764	451
MAH LTR FS	5268611	6358810	363
MAS 140 10 FT	6295753	6356311	524
MASD 90 FT	6471195	6356915	524
		price/m	
MKS 110 FS	6061815	6060102	134
MKS 120 FS	6061877	6060196	134
MKS 130 FS	6061938	6060307	134
MKS 140 FS	6061990	6060404	134
MKS 150 FS	6062058	6060412	134
MKS 155 FS	6062119	6060528	134
MKS 310 FS	6059478	6053548	27
MKS 310 FT	6059294	6053106	28
MKS 315 FS	6386659	6053572	27
MKS 315 FT	6386352	6053165	28
MKS 320 FS	6059539	6053599	27
MKS 320 FT	6059355	6053203	28
MKS 330 FS	6059591	6053637	27
MKS 330 FT	6059416	6053300	28
MKS 610 FS	6059652	6055109	75
MKS 610 FT	6060016	6055532	76
MKS 615 FS	6387731	6055141	75
MKS 615 FT	6387915	6055559	76
MKS 620 FS	6059713	6055206	75
MKS 620 FT	6060078	6055575	76
MKS 630 FS	6059775	6055303	75
MKS 630 FT	6060139	6055613	76
MKS 640 FS	6059836	6055400	75
MKS 640 FT	6388035	6055664	76
MKS 650 FS	6059898	6055508	75
MKS 650 FT	6388097	6055699	76
MKS 660 FS	6059959	6055524	75
MKS 660 FT	6388219	6055710	76
MKS 810 FS	6060733	6057101	110
MKS 820 FS	6060795	6057209	110
MKS 830 FS	6060856	6057306	110
MKS 840 FS	6060917	6057403	110
MKS 850 FS	6060979	6057500	110
MKS 860 FS	6061037	6057535	110
MKSM 110 FS	5830627	6059156	118
MKSM 110 FT	5831037	6059173	119
MKSM 120 FS	5830931	6059160	118
MKSM 120 FT	5831051	6059177	119
MKSM 130 FS	5830948	6059162	118
MKSM 130 FT	5831068	6059179	119
MKSM 140 FS	5830986	6059164	118
MKSM 140 FT	5831105	6059181	119
MKSM 150 FS	5830993	6059166	118
MKSM 150 FT	5831112	6059183	119
MKSM 160 FS	5831006	6059168	118
MKSM 160 FT	5831129	6059185	119
MKSM 610 FS	5829553	6059000	42
MKSM 610 FT	5830023	6059018	43
MKSM 615 FS	5829935	6059002	42
MKSM 615 FT	5830030	6059020	43

Type	GTIN	Item no.	Page
		price/m	
MKSM 620 FS	5829942	6059004	42
MKSM 620 FT	5830047	6059022	43
MKSM 630 FS	5829959	6059006	42
MKSM 630 FT	5830085	6059025	43
MKSM 640 FS	5829966	6059008	42
MKSM 640 FT	5830092	6059027	43
MKSM 650 FS	5829973	6059010	42
MKSM 650 FT	5830108	6059029	43
MKSM 660 FS	5829980	6059012	42
MKSM 660 FT	5830146	6059032	43
MKSM 810 FS	5830344	6059080	96
MKSM 810 FT	5830412	6059097	97
MKSM 820 FS	5830368	6059084	96
MKSM 820 FT	5830436	6059101	97
MKSM 830 FS	5830375	6059086	96
MKSM 830 FT	5830443	6059103	97
MKSM 840 FS	5830382	6059088	96
MKSM 840 FT	5830450	6059105	97
MKSM 850 FS	5830399	6059090	96
MKSM 850 FT	5830467	6059107	97
MKSM 860 FS	5830405	6059092	96
MKSM 860 FT	5830474	6059109	97
MKSMU 110 A2	5832249	6059416	123
MKSMU 110 FS	5832003	6059382	122
MKSMU 120 A2	5832263	6059420	123
MKSMU 120 FS	5832027	6059386	122
MKSMU 130 A2	5832300	6059422	123
MKSMU 130 FS	5832065	6059388	122
MKSMU 140 A2	5832317	6059424	123
MKSMU 140 FS	5832072	6059390	122
MKSMU 150 A2	5832324	6059426	123
MKSMU 150 FS	5832089	6059392	122
MKSMU 160 A2	5832355	6059428	123
MKSMU 160 FS	5832119	6059394	122
MKSMU 610 FS	5831341	6059230	46
MKSMU 610 FT	5831419	6059248	47
MKSMU 615 FS	5831358	6059232	46
MKSMU 615 FT	5831426	6059250	47
MKSMU 620 FS	5831365	6059234	46
MKSMU 620 FT	5831433	6059252	47
MKSMU 630 FS	5831372	6059237	46
MKSMU 630 FT	5831440	6059254	47
MKSMU 640 FS	5831389	6059239	46
MKSMU 640 FT	5831457	6059256	47
MKSMU 650 FS	5831396	6059241	46
MKSMU 650 FT	5831464	6059258	47
MKSMU 660 FS	5831402	6059243	46
MKSMU 660 FT	5831471	6059260	47
MKSMU 810 FS	5831624	6059308	98
MKSMU 810 FT	5831693	6059325	99
MKSMU 820 FS	5831648	6059312	98
MKSMU 820 FT	5831716	6059329	99
MKSMU 830 FS	5831655	6059314	98
MKSMU 830 FT	5831723	6059331	99
MKSMU 840 FS	5831662	6059316	98
MKSMU 840 FT	5831730	6059333	99
MKSMU 850 FS	5831679	6059318	98
MKSMU 850 FT	5831747	6059335	99
MKSMU 860 FS	5831686	6059320	98
MKSMU 860 FT	5831754	6059337	99
		/pc.	
MP 225 UNI FS	5012245	7084870	145
MP FL DD	5163268	7085108	145
MP FL FS	6146772	7084757	145
MP UNI A2	5166320	7085133	144
MP UNI DD	5163312	7085114	144
MP UNI FS	6146895	7084773	144
MP WI GR. DD	5286790	7085112	145
MP WI GR. FS	6146956	7084781	145
MP WI KL. DD	5163305	7085111	145
MP WI KL. FS	6146833	7084765	145
MPG 65 A4	6933372	6006488	272
MPG 65 FT	6933259	6006486	272
MPG 90 A4	6933433	6006489	272
MPG 90 FT	6933310	6006487	272
		/100 pc.	
MS4022 SK	5785316	1124555	508

Type	GTIN	Item no.	Page
		/pc.	
MS4022P0192FT	6355518	6007201	341
MS4022P0292FT	6005895	6007228	341
MS4022P0392FT	6005956	6007236	341
MS4022P0492FT	6006014	6007244	341
MS4022P0592FT	6006076	6007252	341
MS4022P0692FT	6006137	6007260	341
MS4022P0792FT	6006199	6007279	341
MS4022P0892FT	6006250	6007287	341
MS4022P0992FT	6006311	6007295	341
MS4022P1092FT	6006373	6007309	341
MS4022P1192FT	6006434	6007317	341
		price/100	
MS4022P2000A2	5050179	1121960	492
MS4022P2000A4	5905585	1121963	493
MS4022P2000FT	5050230	1121979	492
MS4022P6000A2	5049999	1121901	492
MS4022P6000A4	5907022	1121903	493
MS4022P6000FT	5049937	1121898	492
		/100 pc.	
MS40HB M10x30 A4	6489572	1148160	504
MS40HB M10x30 ZL	6489503	1148118	504
MS40HB M10x60 A4	6489589	1148164	504
MS40HB M10x60 ZL	6489510	1148122	504
MS40HB M12x30 A4	6489596	1148168	504
MS40HB M12x30 ZL	6489527	1148126	504
MS40HB M12x60 A4	6489602	1148170	504
MS40HB M12x60 ZL	6489534	1148130	504
MS40HB M6x30 A4	6489541	1148146	504
MS40HB M6x30 ZL	6489473	1148106	504
MS40HB M8x30 A4	6489558	1148150	504
MS40HB M8x30 ZL	6489480	1148110	504
MS40HB M8x60 A4	6489565	1148154	504
MS40HB M8x60 ZL	6489497	1148114	504
MS40SN M10 A4	6489459	1147134	501
MS40SN M10 ZL	6489411	1147114	501
MS40SN M12 A4	6489466	1147138	501
MS40SN M12 ZL	6489428	1147118	501
MS40SN M6 A4	6489435	1147126	501
MS40SN M6 ZL	6489398	1147106	501
MS40SN M8 A4	6489442	1147130	501
MS40SN M8 ZL	6489404	1147110	501
MS4121 EK	6255726	1122904	509
MS4121 SK	5686217	1122902	508
MS4121P0200FS	6471119	1122950	495
MS4121P0200FT	5697626	1122933	495
MS4121P0300FS	6471126	1122951	495
MS4121P0300FT	5697664	1122934	495
MS4121P0400FS	6471157	1122953	495
MS4121P0400FT	5697671	1122935	495
MS4121P0500FS	6471164	1122955	495
MS4121P0500FT	5697688	1122936	495
MS4121P0600FS	6471171	1122956	495
MS4121P0600FT	5697725	1122937	495
MS4121P0700FS	6471188	1122958	495
MS4121P0700FT	5697732	1122938	495
MS4121P0800FS	5848042	1122957	495
MS4121P0800FT	5697749	1122939	495
MS4121P0900FS	6471218	1122959	495
MS4121P0900FT	5697787	1122940	495
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MS4121P2000A2	6471225	1122925	496
MS4121P2000A4	5907114	1122476	496
MS4121P2000FS	5686262	1122918	495
MS4121P2000FT	5697541	1122923	495
MS4121P3000A2	5697558	1122928	496
MS4121P3000A4	5697602	1122931	496
MS4121P3000FS	5686279	1122920	495
MS4121P3000FT	5686293	1122924	495
MS4121P6000A2	5697565	1122929	496
MS4121P6000A4	5697619	1122932	496
MS4121P6000FS	5686286	1122922	495
MS4121P6000FT	5686309	1122926	495
		/100 pc.	
MS4141 EK	5894117	1122906	509
MS4141 SK	5686200	1122900	509
MS4141P0200FT	5484516	1122509	500
MS4141P0300FT	5485896	1122517	500
MS4141P0400FT	5486251	1122525	500
MS4141P0500FT	5486794	1122533	500
MS4141P0600FT	5486916	1122541	500
MS4141P0700FT	5487036	1122568	500
MS4141P0800FT	5487098	1122576	500

Type	GTIN	Item no.	Page
		/100 pc.	
MS4141P0900FT	5487159	1122584	500
		price/100	
MS4141P1000FS	5697503	1122908	497
MS4141P1000FT	5487272	1122606	497
MS4141P3000A4	5907213	1123049	497
MS4141P3000FS	5686224	1122910	497
MS4141P3000FT	5487876	1122622	497
MS4141P6000A4	5907220	1123051	497
MS4141P6000FS	5686231	1122912	497
MS4141P6000FT	5488170	1122657	497
MS4141PP1000FS	5697978	1122481	498
MS4141PP1000FT	5697961	1122479	498
MS4141PP3000FS	5686248	1122914	498
MS4141PP3000FT	5050735	1122483	498
MS4141PP6000FS	5686255	1122916	498
MS4141PP6000FT	5050742	1122487	498
MS4142P3000FS	5697848	1122947	496
MS4142P3000FT	5697794	1122944	496
MS4142P6000A2	5938019	1122954	496
MS4142P6000FS	5697855	1122948	496
MS4142P6000FT	5697800	1122945	496
MS4182P3000A2	5938026	1122682	501
MS4182P3000FS	5698036	1122676	501
MS4182P3000FT	5697985	1122671	501
MS4182P6000A2	5938033	1122684	501
MS4182P6000FS	5698043	1122678	501
MS4182P6000FT	5698029	1122673	501
		/100 pc.	
MS41HB M10x100A4	6490370	1148430	505
MS41HB M10x100ZL	6490134	1148330	505
MS41HB M10x30 A4	6490356	1148422	505
MS41HB M10x30 ZL	6490110	1148322	505
MS41HB M10x60 A4	6490363	1148426	505
MS41HB M10x60 ZL	6490127	1148326	505
MS41HB M12x100A4	6490431	1148442	505
MS41HB M12x100ZL	6490189	1148342	505
MS41HB M12x30 A4	6490387	1148434	505
MS41HB M12x30 ZL	6490141	1148334	505
MS41HB M12x60 A4	6490424	1148438	505
MS41HB M12x60 ZL	6490172	1148338	505
MS41HB M6x30 A4	6490295	1148406	505
MS41HB M6x30 ZL	6490059	1148306	505
MS41HB M8x100 A4	6490325	1148418	505
MS41HB M8x100 ZL	6490080	1148318	505
MS41HB M8x30 A4	6490301	1148410	505
MS41HB M8x30 ZL	6490066	1148310	505
MS41HB M8x60 A4	6490318	1148414	505
MS41HB M8x60 ZL	6490073	1148314	505
MS41HBF M10x30A4	6490493	1148484	505
MS41HBF M10x30FT	6490233	1148384	505
MS41HBF M10x60A4	6490509	1148488	505
MS41HBF M10x60FT	6490240	1148388	505
MS41HBF M12x30A4	6490547	1148492	505
MS41HBF M12x30FT	6490257	1148392	505
MS41HBF M12x60A4	6490554	1148496	505
MS41HBF M12x60FT	6490264	1148396	505
MS41HBF M8x30 A4	6490448	1148476	505
MS41HBF M8x30 FT	6490196	1148376	505
MS41HBF M8x60 A4	6490486	1148480	505
MS41HBF M8x60 FT	6490202	1148380	505
MS41SN M10 A4	6489916	1147234	502
MS41SN M10 ZL	6489879	1147214	502
MS41SN M12 A4	6489923	1147238	502
MS41SN M12 ZL	6489886	1147218	502
MS41SN M6 A4	6489893	1147226	502
MS41SN M6 ZL	6489855	1147206	502
MS41SN M8 A4	6489909	1147230	502
MS41SN M8 ZL	6489862	1147210	502
MS41SNF M10 A4	6490011	1147344	502
MS41SNF M10 F	6489954	1147314	502
MS41SNF M12 A4	6490028	1147348	502
MS41SNF M12 F	6489961	1147318	502
MS41SNF M6 A4	6489992	1147336	502
MS41SNF M6 F	6489930	1147306	502
MS41SNF M8 A4	6490004	1147340	502
MS41SNF M8 F	6489947	1147310	502
MS5030 SK	5785323	1124563	508
		/pc.	
MS5030P0200FT	5745037	1121391	494
MS5030P0300FT	5672975	1121243	494
MS5030P0400FT	5672555	1121278	494
MS5030P0500FT	5886334	1121405	494

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
MS5030P0600FT	5672494	1121294	494
MS5030P0700FT	5672616	1121332	494
MS5030P0800FT	5882251	1121308	494
MS5030P0900FT	5068310	1121336	494
		price/100	
MS5030P1000FT	5886211	1121448	494
		/pc.	
MS5030P1500FT	5514572	1121363	494
		price/100	
MS5030P2000A2	5049272	1121480	494
MS5030P2000A4	5906995	1121465	494
MS5030P2000FT	5049210	1121464	494
MS5030P3000FT	5419686	1121466	494
MS5030P6000A2	5049333	1121499	494
MS5030P6000A4	5907015	1121473	494
MS5030P6000FT	5462491	1121472	494
		/pc.	
MS5030RP0220FT	6191710	6349404	493
MS5030RP0260FT	6191772	6349412	493
MS5030RP0300FT	6191833	6349439	493
MS5030RP0340FT	6191895	6349447	493
MS5030RP0380FT	6191956	6349463	493
		price/100	
MS5030UP2000FT	6471065	1121524	499
MS5030UP6000FT	5049517	1121529	499
		/100 pc.	
MS50HB M10x30 A4	6489794	1148268	504
MS50HB M10x30 ZL	6489725	1148218	504
MS50HB M10x60 A4	6489800	1148272	504
MS50HB M10x60 ZL	6489732	1148222	504
MS50HB M12x30 A4	6489817	1148276	504
MS50HB M12x30 ZL	6489749	1148226	504
MS50HB M12x60 A4	6489824	1148280	504
MS50HB M12x60 ZL	6489756	1148230	504
MS50HB M6x30 A4	6489763	1148256	504
MS50HB M6x30 ZL	6489695	1148206	504
MS50HB M8x30 A4	6489770	1148260	504
MS50HB M8x30 ZL	6489701	1148210	504
MS50HB M8x60 A4	6489787	1148264	504
MS50HB M8x60 ZL	6489718	1148214	504
MS50SN M10 A4	6489671	1147190	503
MS50SN M10 ZL	6489633	1147164	502
MS50SN M12 A4	6489688	1147194	503
MS50SN M12 ZL	6489640	1147168	502
MS50SN M6 A4	6489657	1147172	503
MS50SN M6 ZL	6489619	1147156	502
MS50SN M8 A4	6489664	1147186	503
MS50SN M8 ZL	6489626	1147160	502
MSL4141P0200FS	6471232	1123262	499
MSL4141P0300FS	6471249	1123264	499
MSL4141P0400FS	6471270	1123266	499
MSL4141P0500FS	6471287	1123268	499
MSL4141P0600FS	6471294	1123270	499
MSL4141P0700FS	6471300	1123272	499
MSL4141P0800FS	6471317	1123274	499
MSL4141P0900FS	6471324	1123276	499
		price/100	
MSL4141P1000A2	5698203	1122978	497
MSL4141P1000A4	5698265	1122988	497
MSL4141P1000FS	5698142	1122970	497
MSL4141P1000FT	5698081	1122962	497
MSL4141P3000A2	5698210	1122980	497
MSL4141P3000A4	5698272	1122990	497
MSL4141P3000FS	5698159	1122972	497
MSL4141P3000FT	5698098	1122964	497
MSL4141P6000A2	5698227	1122982	497
MSL4141P6000A4	5698289	1122992	497
MSL4141P6000FS	5698166	1122974	497
MSL4141P6000FT	5698104	1122966	497
MSL4141PP1000A2	5698333	1123014	498
MSL4141PP1000A4	5698395	1123021	498
MSL4141PP1000FS	5697923	1123008	498
MSL4141PP1000FT	5697862	1123001	498
MSL4141PP3000A2	5698340	1123016	498
MSL4141PP3000A4	5698401	1123023	498
MSL4141PP3000FS	5698319	1123010	498
MSL4141PP3000FT	5697909	1123003	498
MSL4141PP6000A2	5698388	1123018	498
MSL4141PP6000A4	5698432	1123025	498
MSL4141PP6000FS	5698326	1123012	498
MSL4141PP6000FT	5697916	1123005	498

Type	GTIN	Item no.	Page
		/pc.	
MW 45 SL10 A2	6013753	6017339	273
MW 45 SL10 FT	6013692	6017320	273
MW 90 SL17 A2	6012855	6016278	273
MW 90 SL17 FT	6013814	6017347	273
MW 90 SL23 A2	6012916	6016308	273
MW 90 SL23 FT	6013876	6017355	273
MWA 12 11S A2	7253523	6424430	368
MWA 12 11S A4	7253646	6424440	368
		/pc.	
MWA 12 11S FS	6636853	6424716	367
MWA 12 21S A2	7253554	6424432	368
MWA 12 21S A4	7253677	6424442	368
		/pc.	
MWA 12 21S FS	6636976	6424732	367
MWA 12 31S A2	7253585	6424434	368
MWA 12 31S A4	7253707	6424444	368
		/pc.	
MWA 12 31S FS	6637034	6424740	367
MWA 12 41S A2	7253615	6424436	368
MWA 12 41S A4	7253738	6424446	368
		/pc.	
MWA 12 41S FS	6637096	6424759	367
MWAG 12 11 A2	7253769	6424400	371
MWAG 12 11 A4	7253912	6424410	371
		/pc.	
MWAG 12 11 FS	6324736	6424600	370
MWAG 12 21 A2	7253790	6424402	371
MWAG 12 21 A4	7253967	6424412	371
		/pc.	
MWAG 12 21 FS	6325030	6424608	370
MWAG 12 31 A2	7253851	6424404	371
MWAG 12 31 A4	7254018	6424414	371
		/pc.	
MWAG 12 31 FS	6325337	6424616	370
MWAG 12 41 A2	7253882	6424406	371
MWAG 12 41 A4	7254049	6424416	371
		/pc.	
MWAG 12 41 FS	6325634	6424624	370
MWAM 12 11 FS	5438526	6424550	369
MWAM 12 21 FS	5438533	6424552	369
MWAM 12 31 FS	5438540	6424554	369
MWAM 12 41 FS	5438571	6424556	369
OSG 20X3 FT	6326112	6017371	264
RAA 110 FS	6819799	7002637	141
RAA 110 FT	6813490	7123116	141
RAA 120 FS	6819850	7002653	141
RAA 120 FT	6813551	7123213	141
RAA 130 FS	6819911	7002688	141
RAA 130 FT	6813674	7123310	141
RAA 140 FS	6213610	7002696	141
RAA 140 FT	6247097	7123396	141
RAA 150 FS	6213672	7002726	141
RAA 150 FT	6247158	7123507	141
RAA 155 FS	6213733	7002734	141
RAA 155 FT	6247219	7123558	141
RAA 305 FS	6687664	7120450	31
RAA 305 FT	6688654	7120458	31
		/pc.	
RAA 310 FS	6453191	6040322	31
RAA 310 FT	6812950	7120117	31
RAA 315 FT	5815754	7120140	31
RAA 320 FS	6449835	6040349	31
RAA 320 FT	6813018	7120214	31
RAA 330 FS	6453672	6040357	31
RAA 330 FT	6813070	7120311	31
RAA 605 FS	6687671	7120460	92
RAA 605 FT	6688661	7120468	92
		/pc.	
RAA 610 A2	6821235	7136120	92
RAA 610 A4	5675686	7136122	92
RAA 610 FS	6379392	6040403	92
RAA 610 FT	6813131	7121109	92
RAA 615 FS	6502639	6040411	92
RAA 615 FT	6027002	7121205	92
RAA 620 A2	6821297	7136133	92
RAA 620 A4	5866695	7136135	92
RAA 620 FS	6379453	6040438	92

Type	GTIN	Item no.	Page
		/pc.	
RAA 620 FT	6813193	7121210	92
RAA 630 A2	6821358	7136141	92
RAA 630 A4	5866701	7136143	92
RAA 630 FS	6379514	6040446	92
RAA 630 FT	6813254	7121318	92
RAA 640 A2	6256877	7136242	93
RAA 640 A4	5866749	7136244	93
RAA 640 FS	6212897	7002394	92
RAA 640 FT	6246373	7121407	92
RAA 650 A2	6256938	7136250	93
RAA 650 A4	5866756	7136252	93
RAA 650 FS	6212958	7002416	92
RAA 650 FT	6246434	7121504	92
RAA 660 A2	6256990	7136269	93
RAA 660 A4	5866763	7136271	93
RAA 660 FS	6213016	7002432	92
RAA 660 FT	6246496	7121601	92
RAA 810 FS	6819614	7002475	116
RAA 810 FT	6813315	7122109	116
RAA 820 FS	6819676	7002491	116
RAA 820 FT	6813377	7122213	116
RAA 830 FS	6819737	7002513	116
RAA 830 FT	6813438	7122310	116
RAA 840 FS	6213252	7002521	116
RAA 840 FT	6246731	7122403	116
RAA 850 FS	6213313	7002556	116
RAA 850 FT	6246793	7122500	116
RAA 860 FS	6213375	7002572	116
RAA 860 FT	6246854	7122608	116
RAAM 110 A2	5882176	6041960	131
RAAM 110 FS	5882039	6041920	130
RAAM 110 FT	5882091	6041940	130
RAAM 115 FS	5896067	6041921	130
RAAM 115 FT	5896074	6041941	130
RAAM 120 A2	5882183	6041962	131
RAAM 120 FS	5882046	6041922	130
RAAM 120 FT	5882107	6041942	130
RAAM 130 A2	5882190	6041964	131
RAAM 130 FS	5882053	6041924	130
RAAM 130 FT	5882114	6041944	130
RAAM 140 A2	5882206	6041966	131
RAAM 140 FS	5882060	6041926	130
RAAM 140 FT	5882121	6041946	130
RAAM 150 A2	5882213	6041968	131
RAAM 150 FS	5882077	6041928	130
RAAM 150 FT	5882152	6041948	130
RAAM 160 A2	5882220	6041970	131
RAAM 160 FS	5882084	6041930	130
RAAM 160 FT	5882169	6041950	130
RAAM 310 FS	5881353	6041020	24
RAAM 320 FS	5881513	6041022	24
RAAM 330 FS	5881520	6041024	24
RAAM 610 A2	5878797	6041270	58
RAAM 610 A4	5878865	6041290	58
RAAM 610 FS	5878568	6041230	58
RAAM 610 FT	5878698	6041250	58
RAAM 615 A2	5878803	6041271	58
RAAM 615 FS	5878575	6041232	58
RAAM 615 FT	5878704	6041252	58
RAAM 620 A2	5878810	6041275	58
RAAM 620 A4	5878889	6041294	58
RAAM 620 FS	5878582	6041234	58
RAAM 620 FT	5878742	6041254	58
RAAM 630 A2	5878827	6041277	58
RAAM 630 A4	5878926	6041296	58
RAAM 630 FS	5878629	6041236	58
RAAM 630 FT	5878759	6041257	58
RAAM 640 A2	5878834	6041279	58
RAAM 640 A4	5878933	6041298	58
RAAM 640 FS	5878636	6041238	58
RAAM 640 FT	5878766	6041259	58
RAAM 650 A2	5878841	6041282	58
RAAM 650 A4	5878940	6041300	58
RAAM 650 FS	5878643	6041240	58
RAAM 650 FT	5878773	6041261	58
RAAM 660 A2	5878858	6041284	58
RAAM 660 A4	5878988	6041303	58
RAAM 660 FS	5878681	6041242	58
RAAM 660 FT	5878780	6041263	58
RAAM 810 FS	5880851	6041570	107
RAAM 810 FT	5880912	6041590	107
RAAM 820 FS	5880868	6041572	107

Type	GTIN	Item no.	Page
		/pc.	
RAAM 820 FT	5880929	6041592	107
RAAM 830 FS	5880875	6041574	107
RAAM 830 FT	5880967	6041594	107
RAAM 840 FS	5880882	6041576	107
RAAM 840 FT	5880974	6041596	107
RAAM 850 FS	5880899	6041578	107
RAAM 850 FT	5880981	6041598	107
RAAM 860 FS	5880905	6041580	107
RAAM 860 FT	5881025	6041600	107
RB 45 110 FS	6818594	7000634	140
RB 45 110 FT	6991280	7068115	140
RB 45 120 FS	6818778	7000650	140
RB 45 120 FT	6991341	7068212	140
RB 45 130 FS	6818839	7000677	140
RB 45 130 FT	6991402	7068328	140
RB 45 140 FS	6211098	7000685	140
RB 45 140 FT	6225552	7068409	140
RB 45 150 FS	6211159	7000707	140
RB 45 150 FT	6225613	7068506	140
RB 45 155 FS	6211210	7000715	140
RB 45 155 FT	6225675	7068557	140
RB 45 610 A2	6820696	7133107	90
RB 45 610 A4	5866398	7133261	90
RB 45 610 FS	6052271	6043763	89
RB 45 610 FT	6990924	7066112	89
RB 45 615 FS	6052219	6043755	89
RB 45 615 FT	6901579	7066158	89
RB 45 620 A2	6820757	7133120	90
RB 45 620 A4	5866404	7133263	90
RB 45 620 FS	6052332	6043771	89
RB 45 620 FT	6990986	7066228	89
RB 45 630 A2	6820818	7133142	90
RB 45 630 A4	5866442	7133265	90
RB 45 630 FS	6052394	6043798	89
RB 45 630 FT	6991044	7066317	89
RB 45 640 FS	6210374	7000383	89
RB 45 640 FT	6224838	7066406	89
RB 45 650 FS	6210435	7000405	89
RB 45 650 FT	6224890	7066503	89
RB 45 660 FS	6210497	7000421	89
RB 45 660 FT	6224951	7066600	89
RB 45 810 FS	6818419	7000472	114
RB 45 810 FT	6991105	7067119	114
RB 45 820 FS	6818471	7000499	114
RB 45 820 FT	6991167	7067216	114
RB 45 830 FS	6818532	7000510	114
RB 45 830 FT	6991228	7067313	114
RB 45 840 FS	6210732	7000529	114
RB 45 840 FT	6225194	7067402	114
RB 45 850 FS	6210794	7000545	114
RB 45 850 FT	6225255	7067496	114
RB 45 860 FS	6210855	7000561	114
RB 45 860 FT	6225316	7067607	114
RB 90 110 FS	6819430	7001894	141
RB 90 110 FT	6814695	7127103	141
RB 90 120 FS	6819492	7001916	141
RB 90 120 FT	6814756	7127227	141
RB 90 130 FS	6819553	7001932	141
RB 90 130 FT	6814817	7127320	141
RB 90 140 FS	6212354	7001940	141
RB 90 140 FT	6248414	7127413	141
RB 90 150 FS	6212415	7001967	141
RB 90 150 FT	6248476	7127499	141
RB 90 155 FS	6212477	7001975	141
RB 90 155 FT	6248537	7127545	141
RB 90 305 FS	6687640	7124400	30
RB 90 305 FT	6688630	7124410	30
		/pc.	
RB 90 310 FS	6050239	6043119	30
RB 90 310 FT	6813919	7124120	30
RB 90 315 FS	6926657	6043123	30
RB 90 320 FS	6050291	6043127	30
RB 90 320 FT	6813971	7124236	30
RB 90 330 FS	6050352	6043135	30
RB 90 330 FT	6814039	7124325	30
RB 90 605 FS	6687657	7124430	91
RB 90 605 FT	6688647	7124438	91
		/pc.	
RB 90 610 A2	6820870	7134122	91
RB 90 610 A4	5866541	7134286	91
RB 90 610 FS	6050475	6043216	90

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Type listing

Type	GTIN	Item no.	Page
		/pc.	
RB 90 610 FT	6814091	7125100	90
RB 90 615 FS	6050413	6043208	90
RB 90 615 FT	6901753	7125189	90
RB 90 620 A2	6820931	7134130	91
RB 90 620 A4	5866558	7134288	91
RB 90 620 FS	6050536	6043224	90
RB 90 620 FT	6814152	7125220	90
RB 90 630 A2	6820993	7134138	91
RB 90 630 A4	5866565	7134290	91
RB 90 630 FS	6050598	6043232	90
RB 90 630 FT	6814336	7125305	90
RB 90 640 FS	6211630	7001290	91
RB 90 640 FT	6247691	7125410	91
RB 90 650 FS	6211692	7001304	91
RB 90 650 FT	6247752	7125526	91
RB 90 660 FS	6211753	7001312	91
RB 90 660 FT	6247813	7125585	91
RB 90 810 FS	6818891	7001762	114
RB 90 810 FT	6814510	7126127	114
RB 90 820 FS	6819317	7001789	114
RB 90 820 FT	6814572	7126216	114
RB 90 830 FS	6819379	7001800	114
RB 90 830 FT	6814633	7126301	114
RB 90 840 FS	6211999	7001819	115
RB 90 840 FT	6248056	7126417	115
RB 90 850 FS	6212057	7001835	115
RB 90 850 FT	6248117	7126514	115
RB 90 860 FS	6212118	7001851	115
RB 90 860 FT	6248179	7126611	115
RBM 45 110 FS	5880141	6041750	129
RBM 45 110 FT	5880264	6041780	129
RBM 45 115 FS	5895961	6041751	129
RBM 45 115 FT	5895978	6041781	129
RBM 45 120 FS	5880189	6041752	129
RBM 45 120 FT	5880295	6041782	129
RBM 45 130 FS	5880196	6041754	129
RBM 45 130 FT	5880301	6041784	129
RBM 45 140 FS	5880202	6041756	129
RBM 45 140 FT	5880318	6041786	129
RBM 45 150 FS	5880240	6041758	129
RBM 45 150 FT	5880325	6041788	129
RBM 45 160 FS	5880257	6041760	129
RBM 45 160 FT	5880356	6041790	129
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RBM 45 320 FS	5881285	6041002	24
RBM 45 330 FS	5881315	6041004	24
RBM 45 610 FS	5881537	6041040	57
RBM 45 610 FT	5881605	6041060	57
RBM 45 615 FS	5881544	6041042	57
RBM 45 615 FT	5881612	6041062	57
RBM 45 620 FS	5881551	6041044	57
RBM 45 620 FT	5881629	6041064	57
RBM 45 630 FS	5881568	6041046	57
RBM 45 630 FT	5881636	6041066	57
RBM 45 640 FS	5881575	6041048	57
RBM 45 640 FT	5881643	6041068	57
RBM 45 650 FS	5881582	6041050	57
RBM 45 650 FT	5881650	6041070	57
RBM 45 660 FS	5881599	6041052	57
RBM 45 660 FT	5881667	6041072	57
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RBM 45 850 FT	5879725	6041438	106
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RBM 45 860 FT	5879756	6041440	106
RBM 90 110 A2	5880783	6041880	130
RBM 90 110 FS	5880547	6041840	129
RBM 90 110 FT	5880608	6041860	129
RBM 90 115 FS	5896029	6041841	129
RBM 90 120 A2	5880790	6041882	130
RBM 90 120 FS	5880554	6041842	129
RBM 90 120 FT	5880738	6041862	129
RBM 90 130 A2	5880806	6041884	130
RBM 90 130 FS	5880561	6041844	129
RBM 90 130 FT	5880745	6041864	129

Type	GTIN	Item no.	Page
		/pc.	
RBM 90 140 A2	5880813	6041886	130
RBM 90 140 FS	5880578	6041846	129
RBM 90 140 FT	5880752	6041866	129
RBM 90 150 A2	5880820	6041888	130
RBM 90 150 FS	5880585	6041848	129
RBM 90 150 FT	5880769	6041868	129
RBM 90 160 A2	5880837	6041890	130
RBM 90 160 FS	5880592	6041850	129
RBM 90 160 FT	5880776	6041870	129
RBM 90 310 FS	5881322	6041010	24
RBM 90 320 FS	5881339	6041012	24
RBM 90 330 FS	5881346	6041014	24
RBM 90 610 A2	5881957	6041180	57
RBM 90 610 A4	5878407	6041200	57
RBM 90 610 FS	5881810	6041130	57
RBM 90 610 FT	5881889	6041150	57
RBM 90 615 A2	5878285	6041182	57
RBM 90 615 A4	5878445	6041202	57
RBM 90 615 FS	5881827	6041132	57
RBM 90 615 FT	5881896	6041152	57
RBM 90 620 A2	5878322	6041184	57
RBM 90 620 A4	5878452	6041204	57
RBM 90 620 FS	5881834	6041134	57
RBM 90 620 FT	5881902	6041154	57
RBM 90 630 A2	5878339	6041186	57
RBM 90 630 A4	5878469	6041206	57
RBM 90 630 FS	5881841	6041136	57
RBM 90 630 FT	5881919	6041156	57
RBM 90 640 A2	5878346	6041188	57
RBM 90 640 A4	5878506	6041208	57
RBM 90 640 FS	5881858	6041138	57
RBM 90 640 FT	5881926	6041158	57
RBM 90 650 A2	5878384	6041190	57
RBM 90 650 A4	5878513	6041210	57
RBM 90 650 FS	5881865	6041140	57
RBM 90 650 FT	5881933	6041160	57
RBM 90 660 A2	5878391	6041192	57
RBM 90 660 A4	5878520	6041212	57
RBM 90 660 FS	5881872	6041142	57
RBM 90 660 FT	5881940	6041162	57
RBM 90 810 FS	5879886	6041490	106
RBM 90 810 FT	5879978	6041510	106
RBM 90 820 FS	5879893	6041492	106
RBM 90 820 FT	5879985	6041512	106
RBM 90 830 FS	5879909	6041494	106
RBM 90 830 FT	5879992	6041514	106
RBM 90 840 FS	5879947	6041496	106
RBM 90 840 FT	5880004	6041516	106
RBM 90 850 FS	5879954	6041498	106
RBM 90 850 FT	5880011	6041518	106
RBM 90 860 FS	5879961	6041500	106
RBM 90 860 FT	5880028	6041520	106
RBMV 110 FS	5992745	6040680	130
RBMV 110 FT	5992813	6040700	130
RBMV 115 FS	5992752	6040682	130
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RBMV 120 FS	5992769	6040684	130
RBMV 120 FT	5992837	6040704	130
RBMV 130 FS	5992776	6040686	130
RBMV 130 FT	5992844	6040706	130
RBMV 140 FS	5992783	6040688	130
RBMV 140 FT	5992851	6040708	130
RBMV 150 FS	5992790	6040690	130
RBMV 150 FT	5992868	6040710	130
RBMV 160 FS	5992806	6040692	130
RBMV 160 FT	5992875	6040712	130
RBMV 610 A2	5992288	6040520	56
RBMV 610 A4	5992356	6040540	56
RBMV 610 FS	5992141	6040480	56
RBMV 610 FT	5992219	6040500	56
RBMV 615 A4	5992363	6040542	56
RBMV 615 FS	5992158	6040482	56
RBMV 615 FT	5992226	6040502	56
RBMV 620 A2	5992301	6040524	56
RBMV 620 A4	5992370	6040544	56
RBMV 620 FS	5992165	6040484	56
RBMV 620 FT	5992233	6040504	56
RBMV 630 A2	5992318	6040526	56
RBMV 630 A4	5992387	6040546	56
RBMV 630 FS	5992172	6040486	56
RBMV 630 FT	5992240	6040506	56
RBMV 640 A2	5992325	6040528	56

Type	GTIN	Item no.	Page
		/pc.	
RBMV 640 A4	5992394	6040548	56
RBMV 640 FS	5992189	6040488	56
RBMV 640 FT	5992257	6040508	56
RBMV 650 A2	5992332	6040530	56
RBMV 650 A4	5992400	6040550	56
RBMV 650 FS	5992196	6040490	56
RBMV 650 FT	5992264	6040510	56
RBMV 660 A2	5992349	6040532	56
RBMV 660 A4	5992417	6040552	56
RBMV 660 FS	5992202	6040492	56
RBMV 660 FT	5992271	6040512	56
RBMV 810 FS	5992424	6040580	106
RBMV 810 FT	5992530	6040600	106
RBMV 820 FS	5992479	6040584	106
RBMV 820 FT	5992554	6040604	106
RBMV 830 FS	5992493	6040586	106
RBMV 830 FT	5992561	6040606	106
RBMV 840 FS	5992509	6040588	106
RBMV 840 FT	5992578	6040608	106
RBMV 850 FS	5992516	6040590	106
RBMV 850 FT	5992585	6040610	106
RBMV 860 FS	5992523	6040592	106
RBMV 860 FT	5992592	6040612	106
RBU 45 640 A2	6253630	7133235	90
RBU 45 640 A2	6253630	7133235	90
RBU 45 640 A4	5866459	7133271	90
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RBU 45 650 A2	6253692	7133243	90
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RBU 45 650 A4	5866466	7133273	90
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RBU 45 660 A2	6253753	7133251	90
RBU 45 660 A2	6253753	7133251	90
RBU 45 660 A4	5866473	7133275	90
RBU 45 660 A4	5866473	7133275	90
RBU 90 640 A2	6254712	7134231	91
RBU 90 640 A4	5866572	7134292	91
RBU 90 650 A2	6254774	7134258	91
RBU 90 650 A4	5866589	7134294	91
RBU 90 660 A2	6254835	7134266	91
RBU 90 660 A4	5866626	7134296	91
RBV 110 F FT	5850922	7007468	133
RBV 110 F FT	5850922	7007468	142
RBV 110 S FS	5711711	7007310	132
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RBV 110 S FT	5850908	7007398	132
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RBV 120 F FS	5711827	7007354	133
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RBV 120 S FS	5711728	7007314	132
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RBV 120 S FT	5809197	7007400	132
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RBV 130 S FS	5711759	7007318	132
RBV 130 S FS	5711759	7007318	142
RBV 130 S FT	5863618	7007319	132
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RBV 140 F FS	5711841	7007362	133
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RBV 140 S FS	5711766	7007322	132
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RBV 140 S FT	5809203	7007404	132
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RBV 150 F FS	5711872	7007366	133
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RBV 150 F FT	5863687	7007367	133
RBV 150 F FT	5863687	7007367	142
RBV 150 S FS	5711773	7007326	132
RBV 150 S FS	5711773	7007326	142
RBV 150 S FT	5863625	7007327	132
RBV 150 S FT	5863625	7007327	142
RBV 160 F FS	5995623	7007373	133
RBV 160 F FS	5995623	7007373	142

Type	GTIN	Item no.	Page
		/pc.	
RBV 160 F FT	5995647	7007374	133
RBV 160 F FT	5995647	7007374	142
RBV 160 S FS	5995586	7007333	132
RBV 160 S FS	5995586	7007333	142
RBV 160 S FT	5995609	7007334	132
RBV 160 S FT	5995609	7007334	142
RBV 610 F A2	5688563	7007155	60
RBV 610 F A4	5886457	7006750	60
RBV 610 F FS	5047445	7007055	60
RBV 610 F FT	5476818	7007056	60
RBV 610 S A2	5688556	7007105	59
RBV 610 S A4	5886570	7006720	59
RBV 610 S FS	5047322	7007005	59
RBV 610 S FT	5703730	7007006	59
RBV 615 F A2	5995654	7007156	60
RBV 615 F FS	5047452	7007059	60
RBV 615 F FT	5811022	7007060	60
RBV 615 S A2	5995678	7007107	59
RBV 615 S FS	5047339	7007009	59
RBV 615 S FT	5811015	7007010	59
RBV 620 F A2	5886112	7007157	60
RBV 620 F A4	5886471	7006754	60
RBV 620 F FS	5047469	7007063	60
RBV 620 F FT	5703785	7007064	60
RBV 620 S A2	5886181	7007109	59
RBV 620 S A4	5886587	7006724	59
RBV 620 S FS	5047346	7007013	59
RBV 620 S FT	5703747	7007014	59
RBV 630 F A2	5886129	7007159	60
RBV 630 F A4	5886488	7006758	60
RBV 630 F FS	5047490	7007067	60
RBV 630 F FT	5863298	7007068	60
RBV 630 S A2	5886198	7007113	59
RBV 630 S A4	5886594	7006728	59
RBV 630 S FS	5047377	7007017	59
RBV 630 S FT	5863342	7007018	59
RBV 640 F A2	5886136	7007161	60
RBV 640 F A4	5886501	7006762	60
RBV 640 F FS	5047506	7007071	60
RBV 640 F FT	5863304	7007072	60
RBV 640 S A2	5886204	7007117	59
RBV 640 S A4	5886600	7006732	59
RBV 640 S FS	5047384	7007021	59
RBV 640 S FT	5863380	7007022	59
RBV 650 F A2	5886143	7007163	60
RBV 650 F A4	5886532	7006766	60
RBV 650 F FS	5047513	7007075	60
RBV 650 F FT	5863311	7007076	60
RBV 650 S A2	5886235	7007119	59
RBV 650 S A4	5886617	7006736	59
RBV 650 S FS	5047391	7007025	59
RBV 650 S FT	5863397	7007026	59
RBV 660 F A2	5886174	7007165	60
RBV 660 F A4	5886549	7006770	60
RBV 660 F FS	5047520	7007079	60
RBV 660 F FT	5863328	7007080	60
RBV 660 S A2	5886242	7007121	59
RBV 660 S A4	5886624	7006740	59
RBV 660 S FS	5047407	7007029	59
RBV 660 S FT	5863403	7007030	59
RBV 810 F FS	5711636	7007270	108
RBV 810 F FS	5711636	7007270	115
RBV 810 F FT	5863410	7007271	108
RBV 810 F FT	5863410	7007271	115
RBV 810 S FS	5711537	7007230	108
RBV 810 S FS	5711537	7007230	115
RBV 810 S FT	5863502	7007231	108
RBV 810 S FT	5863502	7007231	115
RBV 820 F FS	5711643	7007274	108
RBV 820 F FS	5711643	7007274	115
RBV 820 F FT	5863427	7007275	108
RBV 820 F FT	5863427	7007275	115
RBV 820 S FS	5711544	7007234	108
RBV 820 S FS	5711544	7007234	115
RBV 820 S FT	5863519	7007235	108
RBV 820 S FT	5863519	7007235	115
RBV 830 F FS	5711650	7007278	108
RBV 830 F FS	5711650	7007278	115
RBV 830 F FT	5863434	7007279	108
RBV 830 F FT	5863434	7007279	115
RBV 830 S FS	5711575	7007238	108
RBV 830 S FS	5711575	7007238	115
RBV 830 S FT	5863526	7007239	108

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
RBV 830 S FT	5863526	7007239	115
RBV 840 F FS	5711667	7007282	108
RBV 840 F FS	5711667	7007282	115
RBV 840 F FT	5863441	7007283	108
RBV 840 F FT	5863441	7007283	115
RBV 840 S FS	5711582	7007242	108
RBV 840 S FS	5711582	7007242	115
RBV 840 S FT	5863564	7007243	108
RBV 840 S FT	5863564	7007243	115
RBV 850 F FS	5711698	7007286	108
RBV 850 F FS	5711698	7007286	115
RBV 850 F FT	5863458	7007287	108
RBV 850 F FT	5863458	7007287	115
RBV 850 S FS	5711599	7007246	108
RBV 850 S FS	5711599	7007246	115
RBV 850 S FT	5863571	7007247	108
RBV 850 S FT	5863571	7007247	115
RBV 860 F FS	5711704	7007290	108
RBV 860 F FS	5711704	7007290	115
RBV 860 F FT	5863465	7007291	108
RBV 860 F FT	5863465	7007291	115
RBV 860 S FS	5711605	7007250	108
RBV 860 S FS	5711605	7007250	115
RBV 860 S FT	5863588	7007251	108
RBV 860 S FT	5863588	7007251	115
REV 110 A2	6400812	6068049	128
REV 110 DD	6067817	6069339	128
REV 110 DD	6067817	6069339	139
REV 110 FS	6066438	6067999	128
REV 110 FS	6066438	6067999	139
REV 35 DD	6067633	6069304	23
REV 35 DD	6067633	6069304	30
REV 35 FS	6066254	6067956	23
REV 35 FS	6066254	6067956	30
REV 60 A2	6066490	6068022	54
REV 60 A2	6066490	6068022	88
REV 60 A4	5021483	6068054	54
REV 60 A4	5021483	6068054	88
REV 60 DD	6337033	6069410	54
REV 60 DD	6337033	6069410	88
REV 60 FS	6066315	6067972	54
REV 60 FS	6066315	6067972	88
REV 85 DD	6067756	6069320	105
REV 85 DD	6067756	6069320	113
REV 85 FS	6066377	6067980	105
REV 85 FS	6066377	6067980	113
RGBEV 110 FS	6217274	7005628	133
RGBEV 110 FS	6217274	7005628	143
RGBEV 110 FT	6228799	7077106	133
RGBEV 110 FT	6228799	7077106	143
RGBEV 115 FS	5995890	7005636	143
RGBEV 120 FS	6217335	7005644	133
RGBEV 120 FS	6217335	7005644	143
RGBEV 120 FT	6228850	7077203	133
RGBEV 120 FT	6228850	7077203	143
RGBEV 130 FS	6217397	7005660	133
RGBEV 130 FS	6217397	7005660	143
RGBEV 130 FT	6228911	7077300	133
RGBEV 130 FT	6228911	7077300	143
RGBEV 140 FS	6217458	7005687	133
RGBEV 140 FS	6217458	7005687	143
RGBEV 140 FT	6228973	7077408	133
RGBEV 140 FT	6228973	7077408	143
RGBEV 150 FS	6217519	7005709	133
RGBEV 150 FS	6217519	7005709	143
RGBEV 150 FT	6229031	7077505	133
RGBEV 150 FT	6229031	7077505	143
RGBEV 155 FS	6217571	7005717	143
RGBEV 160 FS	5995906	7005723	133
RGBEV 160 FS	5995906	7005723	143
RGBEV 160 FT	5778912	7077972	133
RGBEV 160 FT	5778912	7077972	143
RGBEV 610 A2	6804139	7075651	62
RGBEV 610 A2	6804139	7075651	95
RGBEV 610 A4	6804191	7075671	62
RGBEV 610 A4	6804191	7075671	95
		/pc.	
RGBEV 610 FS	6216550	7005326	61
RGBEV 610 FS	6216550	7005326	94
RGBEV 610 FT	6228072	7075103	61
RGBEV 610 FT	6228072	7075103	94

Type	GTIN	Item no.	Page
		/pc.	
RGBEV 615 FS	6500239	7005334	94
RGBEV 615 FT	6511877	7075154	61
RGBEV 615 FT	6511877	7075154	94
RGBEV 620 A2	6804146	7075653	62
RGBEV 620 A2	6804146	7075653	95
RGBEV 620 A4	6804207	7075673	62
RGBEV 620 A4	6804207	7075673	95
		/pc.	
RGBEV 620 FS	6216611	7005342	61
RGBEV 620 FS	6216611	7005342	94
RGBEV 620 FT	6228133	7075200	61
RGBEV 620 FT	6228133	7075200	94
RGBEV 630 A2	6804153	7075655	62
RGBEV 630 A2	6804153	7075655	95
RGBEV 630 A4	6804221	7075675	62
RGBEV 630 A4	6804221	7075675	95
		/pc.	
RGBEV 630 FS	6216673	7005369	61
RGBEV 630 FS	6216673	7005369	94
RGBEV 630 FT	6228195	7075308	61
RGBEV 630 FT	6228195	7075308	94
RGBEV 640 A2	6804160	7075657	62
RGBEV 640 A2	6804160	7075657	95
RGBEV 640 A4	6804238	7075677	62
RGBEV 640 A4	6804238	7075677	95
		/pc.	
RGBEV 640 FS	6216734	7005385	61
RGBEV 640 FS	6216734	7005385	94
RGBEV 640 FT	6228256	7075405	61
RGBEV 640 FT	6228256	7075405	94
RGBEV 650 A2	6804177	7075659	62
RGBEV 650 A2	6804177	7075659	95
RGBEV 650 A4	6804245	7075679	62
RGBEV 650 A4	6804245	7075679	95
		/pc.	
RGBEV 650 FS	6216796	7005407	61
RGBEV 650 FS	6216796	7005407	94
RGBEV 650 FT	6228317	7075502	61
RGBEV 650 FT	6228317	7075502	94
RGBEV 660 A2	6804184	7075661	62
RGBEV 660 A2	6804184	7075661	95
RGBEV 660 A4	6804283	7075681	62
RGBEV 660 A4	6804283	7075681	95
		/pc.	
RGBEV 660 FS	6216857	7005423	61
RGBEV 660 FS	6216857	7005423	94
RGBEV 660 FT	6228379	7075596	61
RGBEV 660 FT	6228379	7075596	94
RGBEV 810 FS	6216918	7005466	109
RGBEV 810 FS	6216918	7005466	117
RGBEV 810 FT	6228430	7076096	109
RGBEV 810 FT	6228430	7076096	117
RGBEV 820 FS	6216970	7005482	109
RGBEV 820 FS	6216970	7005482	117
RGBEV 820 FT	6228492	7076207	109
RGBEV 820 FT	6228492	7076207	117
RGBEV 830 FS	6217038	7005504	109
RGBEV 830 FS	6217038	7005504	117
RGBEV 830 FT	6228553	7076304	109
RGBEV 830 FT	6228553	7076304	117
RGBEV 840 FS	6217090	7005520	109
RGBEV 840 FS	6217090	7005520	117
RGBEV 840 FT	6228614	7076401	109
RGBEV 840 FT	6228614	7076401	117
RGBEV 850 FS	6217151	7005547	109
RGBEV 850 FS	6217151	7005547	117
RGBEV 850 FT	6228676	7076509	109
RGBEV 850 FT	6228676	7076509	117
RGBEV 860 FS	6217212	7005563	109
RGBEV 860 FS	6217212	7005563	117
RGBEV 860 FT	6228737	7076606	109
RGBEV 860 FT	6228737	7076606	117
RGV 110 A2	6986361	7082479	127
RGV 110 FS	6230655	7082037	127
RGV 110 FT	6230952	7082436	127
RGV 35 FS	6230471	7082002	23
RGV 35 FS	6230471	7082002	29
RGV 35 FT	6230716	7082126	29
RGV 60 A2	6230839	7082258	53
RGV 60 A2	6230839	7082258	87
RGV 60 A4	6080113	7082265	53
RGV 60 A4	6080113	7082265	87

Type	GTIN	Item no.	Page
		/pc.	
RGV 60 FS	6230532	7082010	53
RGV 60 FS	6230532	7082010	87
RGV 60 FT	6230778	7082223	53
RGV 60 FT	6230778	7082223	87
RGV 85 FS	6230594	7082029	104
RGV 85 FS	6230594	7082029	113
RGV 85 FT	6230891	7082320	104
RGV 85 FT	6230891	7082320	113
RKM 110 A2	5928225	7027201	132
RKM 110 FS	5928041	7027161	132
RKM 110 FT	5928157	7027181	132
RKM 115 FS	5928058	7027163	132
RKM 115 FT	5928164	7027183	132
RKM 120 A2	5928249	7027205	132
RKM 120 FS	5928065	7027165	132
RKM 120 FT	5928171	7027185	132
RKM 130 A2	5928256	7027207	132
RKM 130 FS	5928072	7027167	132
RKM 130 FT	5928188	7027187	132
RKM 140 A2	5928263	7027209	132
RKM 140 FS	5928089	7027169	132
RKM 140 FT	5928195	7027189	132
RKM 150 A2	5928270	7027211	132
RKM 150 FS	5928096	7027171	132
RKM 150 FT	5928201	7027191	132
RKM 160 A2	5928287	7027213	132
RKM 160 FS	5928102	7027173	132
RKM 160 FT	5928218	7027193	132
RKM 610 FS	5927389	7027001	59
RKM 610 FT	5927471	7027021	59
RKM 615 FS	5927396	7027003	59
RKM 620 FS	5927402	7027005	59
RKM 620 FT	5927518	7027025	59
RKM 630 FS	5927419	7027007	59
RKM 630 FT	5927525	7027027	59
RKM 640 FS	5927426	7027009	59
RKM 640 FT	5927532	7027029	59
RKM 650 FS	5927457	7027011	59
RKM 650 FT	5927549	7027031	59
RKM 660 FS	5927464	7027013	59
RKM 660 FT	5927587	7027033	59
RKM 810 FS	5927761	7027081	107
RKM 810 FT	5927839	7027101	107
RKM 820 FS	5927785	7027085	107
RKM 820 FT	5927853	7027105	107
RKM 830 FS	5927792	7027087	107
RKM 830 FT	5927860	7027107	107
RKM 840 FS	5927808	7027089	107
RKM 840 FT	5927877	7027109	107
RKM 850 FS	5927815	7027091	107
RKM 850 FT	5927884	7027111	107
RKM 860 FS	5927822	7027093	107
RKM 860 FT	5927891	7027113	107
RKS 305 FS	6662104	6047410	25
RKS 305 FT	6662142	6047412	26
RKS 605 FS	6662159	6047600	73
RKS 605 FT	6662166	6047602	74
		price/m	
RKSM 310 FS	5390848	6047417	21
RKSM 320 FS	5390855	6047433	21
RKSM 330 FS	5390862	6047460	21
RKSM 610 A2	5706083	6047613	40
RKSM 610 A4	5706113	6047614	41
RKSM 610 FS	5390879	6047611	38
RKSM 610 FT	5903895	6047612	39
RKSM 615 FS	5391197	6047630	38
RKSM 615 FT	5903901	6047631	39
RKSM 620 A2	5706144	6047640	40
RKSM 620 A4	5706175	6047641	41
RKSM 620 FS	5391203	6047638	38
RKSM 620 FT	5903932	6047639	39
RKSM 630 A2	5706182	6047656	40
RKSM 630 A4	5706199	6047657	41
RKSM 630 FS	5391210	6047654	38
RKSM 630 FT	5903949	6047655	39
RKSM 640 A2	5706205	6047691	40
RKSM 640 A4	5706236	6047692	41
RKSM 640 FS	5391227	6047689	38
RKSM 640 FT	5903956	6047690	39
RKSM 650 A2	5706243	6047721	40

Type	GTIN	Item no.	Page
		price/m	
RKSM 650 A4	5706250	6047722	41
RKSM 650 FS	5391234	6047719	38
RKSM 650 FT	5903963	6047720	39
RKSM 660 A2	5706267	6047737	40
RKSM 660 A4	5706298	6047738	41
RKSM 660 FS	5391241	6047735	38
RKSM 660 FT	5903994	6047736	39
		/pc.	
RLVK 35 FS	6065356	6067085	22
RLVK 35 FS	6065356	6067085	29
RLVK 35 FT	6065714	6067301	22
RLVK 35 FT	6065714	6067301	29
RLVK 60 A2	6066018	6067654	53
RLVK 60 A2	6066018	6067654	87
RLVK 60 A4	6955459	6067675	53
RLVK 60 A4	6955459	6067675	87
RLVK 60 FS	6065417	6067093	52
RLVK 60 FS	6065417	6067093	86
RLVK 60 FT	6065899	6067603	52
RLVK 60 FT	6065899	6067603	86
RLVL 110 A2	6400690	6067948	127
RLVL 110 FS	6065653	6067131	127
RLVL 110 FS	6065653	6067131	139
RLVL 110 FT	6066193	6067913	127
RLVL 110 FT	6066193	6067913	139
RLVL 85 FS	6065592	6067123	104
RLVL 85 FS	6065592	6067123	113
RLVL 85 FT	6066131	6067816	104
RLVL 85 FT	6066131	6067816	113
RT 610 FT	6812356	7117116	93
RT 615 FT	6901692	7117162	93
RT 620 FT	6812417	7117209	93
RT 630 FT	6812479	7117306	93
RT 640 FT	6245055	7117396	93
RT 650 FT	6245116	7117507	93
RT 660 FT	6245178	7117604	93
RTM 110 A2	5882541	6042050	131
RTM 110 FS	5882336	6042010	131
RTM 110 FT	5882428	6042030	131
RTM 115 FS	5896104	6042011	131
RTM 115 FT	5896135	6042032	131
RTM 120 A2	5882558	6042052	131
RTM 120 FS	5882343	6042012	131
RTM 120 FT	5882466	6042034	131
RTM 130 A2	5882565	6042054	131
RTM 130 FS	5882350	6042014	131
RTM 130 FT	5882473	6042036	131
RTM 140 A2	5882572	6042056	131
RTM 140 FS	5882367	6042018	131
RTM 140 FT	5882480	6042038	131
RTM 150 A2	5882589	6042060	131
RTM 150 FS	5882404	6042020	131
RTM 150 FT	5882527	6042040	131
RTM 160 A2	5882596	6042062	131
RTM 160 FS	5882411	6042022	131
RTM 160 FT	5882534	6042042	131
RTM 310 FS	5915386	6041030	24
RTM 320 FS	5915423	6041032	24
RTM 330 FS	5915713	6041034	24
RTM 610 FS	5878995	6041320	58
RTM 610 FT	5879121	6041340	58
RTM 615 FS	5879008	6041322	58
RTM 615 FT	5879169	6041342	58
RTM 620 FS	5879046	6041324	58
RTM 620 FT	5879176	6041344	58
RTM 630 FS	5879053	6041326	58
RTM 630 FT	5879183	6041348	58
RTM 640 FS	5879060	6041328	58
RTM 640 FT	5879220	6041350	58
RTM 650 FS	5879107	6041330	58
RTM 650 FT	5879237	6041352	58
RTM 660 FS	5879114	6041332	58
RTM 660 FT	5879244	6041354	58
RTM 810 FS	5881278	6041660	107
RTM 810 FT	5881414	6041680	107
RTM 820 FS	5881360	6041662	107
RTM 820 FT	5881421	6041682	107
RTM 830 FS	5881377	6041664	107
RTM 830 FT	5881438	6041684	107

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
RTM 840 FS	5881384	6041666	107
RTM 840 FT	5881445	6041686	107
RTM 850 FS	5881391	6041668	107
RTM 850 FT	5881452	6041688	107
RTM 860 FS	5881407	6041670	107
RTM 860 FT	5881469	6041690	107
RV 607 FS	6897070	6068150	362
RWEB 110 DD	6241033	7107455	128
RWEB 110 DD	6241033	7107455	140
RWEB 110 FS	6242771	7111096	128
RWEB 110 FS	6242771	7111096	140
RWEB 115 FS	5995500	7111201	140
RWEB 120 DD	6241095	7107471	128
RWEB 120 DD	6241095	7107471	140
RWEB 120 FS	6242894	7111207	128
RWEB 120 FS	6242894	7111207	140
RWEB 130 DD	6241156	7107501	128
RWEB 130 DD	6241156	7107501	140
RWEB 130 FS	6243013	7111304	128
RWEB 130 FS	6243013	7111304	140
RWEB 140 DD	6241217	7107536	128
RWEB 140 DD	6241217	7107536	140
RWEB 140 FS	6243136	7111428	128
RWEB 140 FS	6243136	7111428	140
RWEB 150 DD	6241279	7107552	128
RWEB 150 DD	6241279	7107552	140
RWEB 150 FS	6243198	7111509	128
RWEB 150 FS	6243198	7111509	140
RWEB 155 DD	6241330	7107560	128
RWEB 155 DD	6241330	7107560	140
RWEB 155 FS	6243259	7111541	140
RWEB 160 DD	5995524	7107562	128
RWEB 160 DD	5995524	7107562	140
RWEB 160 FS	5995517	7111740	128
RWEB 160 FS	5995517	7111740	140
RWEB 310 FS	6241453	7108109	24
RWEB 310 FS	6241453	7108109	30
RWEB 320 FS	6241514	7108206	24
RWEB 320 FS	6241514	7108206	30
RWEB 330 FS	6241576	7108311	24
RWEB 330 FS	6241576	7108311	30
RWEB 605 DD	6988525	7107145	88
RWEB 610 A2	6242054	7109814	55
RWEB 610 A2	6242054	7109814	89
RWEB 610 A4	6804078	7109951	55
RWEB 610 A4	6804078	7109951	89
		/pc.	
RWEB 610 DD	6982820	7106106	54
RWEB 610 DD	6982820	7106106	88
RWEB 610 FS	6241637	7109105	54
RWEB 610 FS	6241637	7109105	88
RWEB 615 A2	5981084	7109816	55
RWEB 615 A2	5981084	7109816	89
RWEB 615 DD	6308170	7106110	54
RWEB 615 DD	6308170	7106110	88
RWEB 615 FS	6241699	7109156	54
RWEB 615 FS	6241699	7109156	88
RWEB 620 A2	6242115	7109830	55
RWEB 620 A2	6242115	7109830	89
RWEB 620 A4	6804085	7109953	55
RWEB 620 A4	6804085	7109953	89
		/pc.	
RWEB 620 DD	6982769	7106114	54
RWEB 620 DD	6982769	7106114	88
RWEB 620 FS	6241750	7109202	54
RWEB 620 FS	6241750	7109202	88
RWEB 630 A2	6242177	7109857	55
RWEB 630 A2	6242177	7109857	89
RWEB 630 A4	6804092	7109955	55
RWEB 630 A4	6804092	7109955	89
		/pc.	
RWEB 630 DD	6982707	7106118	54
RWEB 630 DD	6982707	7106118	88
RWEB 630 FS	6241811	7109296	54
RWEB 630 FS	6241811	7109296	88
RWEB 640 A2	6242238	7109873	55
RWEB 640 A2	6242238	7109873	89
RWEB 640 A4	6804108	7109957	55
RWEB 640 A4	6804108	7109957	89
		/pc.	
RWEB 640 DD	6024612	7106122	54

Type	GTIN	Item no.	Page
		/pc.	
RWEB 640 DD	6024612	7106122	88
RWEB 640 FS	6241873	7109407	54
RWEB 640 FS	6241873	7109407	88
RWEB 650 A2	6242290	7109903	55
RWEB 650 A2	6242290	7109903	89
RWEB 650 A4	6804115	7109959	55
RWEB 650 A4	6804115	7109959	89
		/pc.	
RWEB 650 DD	6024735	7106126	54
RWEB 650 DD	6024735	7106126	88
RWEB 650 FS	6241934	7109504	54
RWEB 650 FS	6241934	7109504	88
RWEB 660 A2	6242351	7109938	55
RWEB 660 A2	6242351	7109938	89
RWEB 660 A4	6804122	7109961	55
RWEB 660 A4	6804122	7109961	89
		/pc.	
RWEB 660 DD	6034697	7106130	54
RWEB 660 DD	6034697	7106130	88
RWEB 660 FS	6241996	7109601	54
RWEB 660 FS	6241996	7109601	88
RWEB 810 DD	6240678	7107315	105
RWEB 810 DD	6240678	7107315	114
RWEB 810 FS	6242412	7110103	105
RWEB 810 FS	6242412	7110103	114
RWEB 820 DD	6240739	7107331	105
RWEB 820 DD	6240739	7107331	114
RWEB 820 FS	6242474	7110200	105
RWEB 820 FS	6242474	7110200	114
RWEB 830 DD	6240791	7107366	105
RWEB 830 DD	6240791	7107366	114
RWEB 830 FS	6242535	7110308	105
RWEB 830 FS	6242535	7110308	114
RWEB 840 DD	6240852	7107382	105
RWEB 840 DD	6240852	7107382	114
RWEB 840 FS	6242597	7110405	105
RWEB 840 FS	6242597	7110405	114
RWEB 850 DD	6240913	7107404	105
RWEB 850 DD	6240913	7107404	114
RWEB 850 FS	6242658	7110502	105
RWEB 850 FS	6242658	7110502	114
RWEB 860 DD	6240975	7107420	105
RWEB 860 DD	6240975	7107420	114
RWEB 860 FS	6242719	7110618	105
RWEB 860 FS	6242719	7110618	114
RWVL 35 FS	6065479	6067107	23
RWVL 35 FS	6065479	6067107	29
RWVL 35 FT	6065776	6067328	23
RWVL 35 FT	6065776	6067328	29
RWVL 60 A2	6066070	6067662	53
RWVL 60 A2	6066070	6067662	87
RWVL 60 A4	6343157	6067664	53
RWVL 60 A4	6343157	6067664	87
RWVL 60 FS	6065530	6067115	53
RWVL 60 FS	6065530	6067115	87
RWVL 60 FT	6065950	6067611	53
RWVL 60 FT	6065950	6067611	87
		price/pair	
SA MS4022 FT	5439448	6007496	345
SAA MS4022 FT	5439479	6007498	345
		/100 pc.	
SB MS 41 M8 A4	6123117	1124719	471
SB MS 41 M8 A4	6123117	1124719	514
SB MS 41 M8 FT	6624232	1124679	471
SB MS 41 M8 FT	6624232	1124679	514
		/pc.	
SF 140 11 FT	6295814	6356397	524
		price/m	
SGR 105 150 A2	6622047	6003623	237
SGR 105 150 FT	6397716	6003175	236
SGR 105 200 A2	6622054	6003625	237
SGR 105 200 FT	5670742	6003214	236
SGR 105 300 A2	6622061	6003627	237
SGR 105 300 FT	6397723	6003309	236
SGR 105 400 A2	6622078	6003629	237
SGR 105 400 FT	5651765	6003402	236
SGR 105 500 A2	6622085	6003631	237

Type	GTIN	Item no.	Page
		price/m	
SGR 105 500 FT	6397730	6003515	236
SGR 105 600 A2	6622092	6003633	237
SGR 105 600 FT	6397747	6003616	236
SGR 155 300 FT	5380276	6003692	239
SGR 155 300 G	5380153	6003681	238
SGR 155 450 FT	5380283	6003695	239
SGR 155 450 G	5380160	6003684	238
SGR 155 500 FT	5382553	6003696	239
SGR 155 500 G	5382546	6003685	238
SGR 155 600 FT	5380313	6003698	239
SGR 155 600 G	5380191	6003687	238
SGR 55 100 A2	6622108	6000909	228
SGR 55 100 FT	6397655	6000122	227
SGR 55 150 A2	6622115	6000913	228
SGR 55 150 FT	6397662	6000190	227
SGR 55 200 A2	6622139	6000917	228
SGR 55 200 FT	5651758	6000209	227
SGR 55 300 A2	6622146	6000925	228
SGR 55 300 FT	6397679	6000331	227
SGR 55 400 A2	6448388	6000933	228
SGR 55 400 FT	6397686	6000451	227
SGR 55 500 A2	6622153	6000941	228
SGR 55 500 FT	6397693	6000515	227
SGR 55 600 A2	6448418	6000958	228
SGR 55 600 FT	6397709	6000775	227
		/pc.	
SH KAB 20 FS	6649990	6015425	272
SH KAB 25 FS	6650057	6015433	272
SH M10 A4	6952038	6015340	275
SH M10 FS	6608539	6015336	275
SH M10 FT	6951970	6015338	275
		price/pair	
SKH 110 OR	5668015	6222553	319
SKH 60 OR	5668008	6222537	296
SKH 60 OR	5668008	6222537	319
SKH 60 OR	5668008	6222537	334
SKHW 110 OR	5668022	6310398	189
SKHW 110 OR	5668022	6310398	319
		/100 pc.	
SKS 10x110 G	6348794	6418244	360
		price/m	
SKS 110 FS	6062171	6061109	135
SKS 110 FT	6062539	6061605	136
SKS 120 FS	6062232	6061206	135
SKS 120 FT	6062591	6061621	136
SKS 130 FS	6062294	6061303	135
SKS 130 FT	6062652	6061656	136
SKS 140 FS	6062355	6061400	135
SKS 140 FT	6062713	6061672	136
SKS 150 FS	6062416	6061508	135
SKS 150 FT	6062775	6061702	136
SKS 155 FS	6062478	6061559	135
SKS 155 FT	6062836	6061729	136
SKS 610 A4	6050048	6056750	79
SKS 610 FS	6060191	6056105	77
SKS 610 FT	6389957	6056636	78
SKS 615 FS	6389711	6056156	77
SKS 615 FT	6390014	6056644	78
SKS 620 A4	6044887	6056755	79
SKS 620 FS	6060252	6056202	77
SKS 620 FT	6390076	6056652	78
SKS 630 A4	6050161	6056757	79
SKS 630 FS	6060313	6056296	77
SKS 630 FT	6390137	6056679	78
SKS 640 A4	6050284	6056759	79
SKS 640 FS	6060375	6056407	77
SKS 640 FT	6060559	6056695	78
SKS 650 A4	6050406	6056761	79
SKS 650 FS	6060436	6056504	77
SKS 650 FT	6060610	6056717	78
SKS 660 A4	6050529	6056763	79
SKS 660 FS	6060498	6056601	77
SKS 660 FT	6060672	6056733	78
SKS 810 FS	6061099	6058108	111
SKS 810 FT	6061457	6058620	112
SKS 820 FS	6061150	6058205	111
SKS 820 FT	6061518	6058647	112
SKS 830 FS	6061211	6058302	111

Type	GTIN	Item no.	Page
		price/m	
SKS 830 FT	6061570	6058663	112
SKS 840 FS	6061273	6058396	111
SKS 840 FT	6061631	6058698	112
SKS 850 FS	6061334	6058507	111
SKS 850 FT	6061693	6058728	112
SKS 860 FS	6061396	6058604	111
SKS 860 FT	6061754	6058744	112
SKSM 110 FS	5829560	6059614	120
SKSM 110 FT	5829638	6059631	121
SKSM 120 FS	5829584	6059618	120
SKSM 120 FT	5829652	6059635	121
SKSM 130 FS	5829591	6059620	120
SKSM 130 FT	5829669	6059637	121
SKSM 140 FS	5829607	6059622	120
SKSM 140 FT	5829676	6059639	121
SKSM 150 FS	5829614	6059624	120
SKSM 150 FT	5829683	6059641	121
SKSM 160 FS	5829621	6059626	120
SKSM 160 FT	5829690	6059643	121
SKSM 610 FS	5832485	6059456	44
SKSM 610 FT	5832607	6059473	45
SKSM 615 FS	5832492	6059458	44
SKSM 615 FT	5832614	6059475	45
SKSM 620 FS	5832508	6059460	44
SKSM 620 FT	5832621	6059477	45
SKSM 630 FS	5832546	6059462	44
SKSM 630 FT	5832669	6059479	45
SKSM 640 FS	5832553	6059464	44
SKSM 640 FT	5832676	6059481	45
SKSM 650 FS	5832560	6059466	44
SKSM 650 FT	5832683	6059483	45
SKSM 660 FS	5832591	6059468	44
SKSM 660 FT	5832713	6059485	45
SKSM 810 FS	5832966	6059530	100
SKSM 810 FT	5833086	6059549	101
SKSM 820 FS	5832980	6059534	100
SKSM 820 FT	5833109	6059553	101
SKSM 830 FS	5833024	6059536	100
SKSM 830 FT	5833147	6059555	101
SKSM 840 FS	5833031	6059538	100
SKSM 840 FT	5833154	6059557	101
SKSM 850 FS	5833048	6059540	100
SKSM 850 FT	5833161	6059559	101
SKSM 860 FS	5833079	6059542	100
SKSM 860 FT	5833192	6059561	101
SKSMU 110 FS	5833925	6059836	124
SKSMU 110 FT	5834045	6059853	125
SKSMU 120 FS	5833949	6059840	124
SKSMU 120 FT	5834069	6059857	125
SKSMU 130 FS	5833987	6059842	124
SKSMU 130 FT	5834106	6059859	125
SKSMU 140 FS	5833994	6059844	124
SKSMU 140 FT	5834113	6059861	125
SKSMU 150 FS	5834007	6059846	124
SKSMU 150 FT	5834120	6059863	125
SKSMU 160 FS	5834038	6059848	124
SKSMU 160 FT	5834151	6059865	125
SKSMU 610 A2	5830689	6059722	50
SKSMU 610 FS	5829843	6059688	48
SKSMU 610 FT	5829911	6059705	49
SKSMU 615 FS	5829850	6059690	48
SKSMU 615 FT	5829928	6059707	49
SKSMU 620 A2	5830702	6059726	50
SKSMU 620 FS	5829867	6059692	48
SKSMU 620 FT	5830634	6059709	49
SKSMU 630 A2	5830740	6059728	50
SKSMU 630 FS	5829874	6059694	48
SKSMU 630 FT	5830641	6059711	49
SKSMU 640 A2	5830757	6059730	50
SKSMU 640 FS	5829881	6059696	48
SKSMU 640 FT	5830658	6059713	49
SKSMU 650 A2	5830764	6059732	50
SKSMU 650 FS	5829898	6059698	48
SKSMU 650 FT	5830665	6059715	49
SKSMU 660 A2	5830795	6059734	50
SKSMU 660 FS	5829904	6059700	48
SKSMU 660 FT	5830672	6059717	49
SKSMU 810 FS	5833444	6059762	102
SKSMU 810 FT	5833567	6059779	103
SKSMU 820 FS	5833468	6059766	102
SKSMU 820 FT	5833581	6059783	103
SKSMU 830 FS	5833505	6059768	102

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		price/m	
SKSMU 830 FT	5833628	6059785	103
SKSMU 840 FS	5833512	6059770	102
SKSMU 840 FT	5833635	6059787	103
SKSMU 850 FS	5833529	6059772	102
SKSMU 850 FT	5833642	6059789	103
SKSMU 860 FS	5833550	6059774	102
SKSMU 860 FT	5833673	6059791	103
SKSU 110 FS	6395231	6063403	137
SKSU 110 FT	6397754	6064795	138
SKSU 120 FS	6395293	6063438	137
SKSU 120 FT	6397877	6064833	138
SKSU 130 FS	6395354	6063454	137
SKSU 130 FT	6397990	6064884	138
SKSU 140 FS	6395415	6063470	137
SKSU 140 FT	5069690	6064922	138
SKSU 150 FS	6395477	6063497	137
SKSU 150 FT	6398232	6064965	138
SKSU 155 FS	5038702	6063500	137
SKSU 155 FT	6102433	6064973	138
SKSU 610 FS	5060369	6063234	82
SKSU 610 FT	5069836	6064307	83
SKSU 620 FS	5060390	6063236	82
SKSU 620 FT	6050888	6064353	83
SKSU 630 FS	5060406	6063238	82
SKSU 630 FT	5069843	6064409	83
SKSU 640 FS	5060413	6063950	82
SKSU 640 FT	5069874	6064435	83
SKSU 650 FS	6063857	6063241	82
SKSU 650 FT	6308958	6064515	83
SKSU 660 FS	6063918	6063276	82
SKSU 660 FT	6397273	6064523	83
		/pc.	
SLAA 1120 R3 FT	6445615	6225950	313
SLAA 1130 R3 FT	6445622	6225952	313
SLAA 1140 R3 FT	6445639	6225954	313
SLAA 1150 R3 FT	6445653	6225958	313
SLAA 1160 R3 FT	6445660	6225960	313
SLB 90 1120R3 FT	6443994	6225172	312
SLB 90 1130R3 FT	6444007	6225174	312
SLB 90 1140R3 FT	6444014	6225176	312
SLB 90 1150R3 FT	6444038	6225180	312
SLB 90 1160R3 FT	6444045	6225182	312
		price/m	
SLCS 1120 3 FT	6431854	6207302	306
SLCS 1130 3 FT	6431861	6207304	306
SLCS 1140 3 FT	6431878	6207306	306
SLCS 1150 3 FT	6431892	6207310	306
SLCS 1160 3 FT	6431908	6207312	306
		/pc.	
SLGBE 1120 FT	6445158	6225530	315
SLGBE 1130 FT	6445165	6225532	315
SLGBE 1140 FT	6445172	6225534	315
SLGBE 1150 FT	6445196	6225538	315
SLGBE 1160 FT	6445202	6225540	315
		price/m	
SLL 620 CPS 4 FS	5433965	6010620	333
SLL 620 CPS 4 FT	5434047	6010630	334
SLL 630 CPS 4 FS	5433972	6010622	333
SLL 630 CPS 4 FT	5434085	6010632	334
SLL 640 CPS 4 FS	5433989	6010624	333
SLL 640 CPS 4 FT	5434092	6010634	334
SLL 650 CPS 4 FS	5434023	6010626	333
SLL 650 CPS 4 FT	5434108	6010636	334
SLL 660 CPS 4 FS	5434030	6010628	333
SLL 660 CPS 4 FT	5434146	6010638	334
SLM 50 C40 10 FT	6168613	6010547	337
SLM 50 C40 11 FT	6168552	6010555	337
SLM 50 C40 12 FT	6168491	6010563	337
SLM 50 C40 2 FT	6146116	6010466	337
SLM 50 C40 3 FT	6146178	6010474	337
SLM 50 C40 4 FT	6146239	6010482	337
SLM 50 C40 5 FT	6146291	6010490	337
SLM 50 C40 6 FT	6168859	6010504	337
SLM 50 C40 7 FT	6168798	6010512	337
SLM 50 C40 8 FT	6168736	6010520	337
SLM 50 C40 9 FT	6168675	6010539	337

Type	GTIN	Item no.	Page
		price/m	
SLS 80 C40 10 FT	6011599	6013465	342
SLS 80 C40 11 FT	6011650	6013473	342
SLS 80 C40 12 FT	6011711	6013481	342
SLS 80 C40 2 FT	6358632	6013384	342
SLS 80 C40 3 FT	6358694	6013392	342
SLS 80 C40 4 FT	6011230	6013406	342
SLS 80 C40 5 FT	6011292	6013414	342
SLS 80 C40 6 FT	6011353	6013422	342
SLS 80 C40 7 FT	6011414	6013430	342
SLS 80 C40 8 FT	6011476	6013449	342
SLS 80 C40 9 FT	6011537	6013457	342
SLS 80 W40 10 FT	6012138	6013902	343
SLS 80 W40 4 FT	6011773	6013848	343
SLS 80 W40 5 FT	6011834	6013856	343
SLS 80 W40 6 FT	6011896	6013864	343
SLS 80 W40 7 FT	6011957	6013872	343
SLS 80 W40 8 FT	6012015	6013880	343
SLS 80 W40 9 FT	6012077	6013899	343
		/pc.	
SLT 1120 R3 FT	6444526	6225350	313
SLT 1130 R3 FT	6444533	6225352	313
SLT 1140 R3 FT	6444540	6225354	313
SLT 1150 R3 FT	6444595	6225358	313
SLT 1160 R3 FT	6444601	6225360	313
SSLB 100 A2	6095728	7070353	144
SSLB 100 A2	6095728	7070353	171
SSLB 100 A2	6095728	7070353	179
SSLB 100 A4	5021520	7070390	144
SSLB 100 A4	5021520	7070390	171
SSLB 100 A4	5021520	7070390	179
SSLB 100 DD	6095247	7070306	144
SSLB 100 DD	6095247	7070306	171
SSLB 100 DD	6095247	7070306	178
SSLB 100 FS	6079971	7070205	144
SSLB 100 FS	6079971	7070205	171
SSLB 100 FS	6079971	7070205	178
SSLB 150 DD	6095308	7070310	144
SSLB 150 DD	6095308	7070310	171
SSLB 150 DD	6095308	7070310	178
SSLB 150 FS	6094820	7070209	144
SSLB 150 FS	6094820	7070209	171
SSLB 150 FS	6094820	7070209	178
SSLB 200 A2	6095780	7070361	144
SSLB 200 A2	6095780	7070361	171
SSLB 200 A2	6095780	7070361	179
SSLB 200 A4	5021582	7070392	144
SSLB 200 A4	5021582	7070392	171
SSLB 200 A4	5021582	7070392	179
SSLB 200 DD	6095360	7070314	144
SSLB 200 DD	6095360	7070314	171
SSLB 200 DD	6095360	7070314	178
SSLB 200 FS	6094882	7070213	144
SSLB 200 FS	6094882	7070213	171
SSLB 200 FS	6094882	7070213	178
SSLB 300 A2	6095841	7070365	144
SSLB 300 A2	6095841	7070365	171
SSLB 300 A2	6095841	7070365	179
SSLB 300 A4	5021605	7070394	144
SSLB 300 A4	5021605	7070394	171
SSLB 300 A4	5021605	7070394	179
SSLB 300 DD	6095421	7070318	144
SSLB 300 DD	6095421	7070318	171
SSLB 300 DD	6095421	7070318	178
SSLB 300 FS	6094943	7070217	144
SSLB 300 FS	6094943	7070217	171
SSLB 300 FS	6094943	7070217	178
SSLB 400 A2	6095902	7070369	144
SSLB 400 A2	6095902	7070369	171
SSLB 400 A2	6095902	7070369	179
SSLB 400 A4	5021766	7070396	144
SSLB 400 A4	5021766	7070396	171
SSLB 400 A4	5021766	7070396	179
SSLB 400 DD	6095483	7070322	144
SSLB 400 DD	6095483	7070322	171
SSLB 400 DD	6095483	7070322	178
SSLB 400 FS	6095001	7070221	144
SSLB 400 FS	6095001	7070221	171
SSLB 400 FS	6095001	7070221	178
SSLB 500 A2	6095964	7070373	144
SSLB 500 A2	6095964	7070373	171
SSLB 500 A2	6095964	7070373	179

Type	GTIN	Item no.	Page
		/pc.	
SSLB 500 A4	5021711	7070398	144
SSLB 500 A4	5021711	7070398	171
SSLB 500 A4	5021711	7070398	179
SSLB 500 DD	6095544	7070326	144
SSLB 500 DD	6095544	7070326	171
SSLB 500 DD	6095544	7070326	178
SSLB 500 FS	6095063	7070225	144
SSLB 500 FS	6095063	7070225	171
SSLB 500 FS	6095063	7070225	178
SSLB 550 DD	6095605	7070330	171
SSLB 550 DD	6095605	7070330	178
SSLB 550 DD	6095605	7070330	144
SSLB 550 FS	6095124	7070229	144
SSLB 550 FS	6095124	7070229	171
SSLB 550 FS	6095124	7070229	178
SSLB 600 A2	6096022	7070381	144
SSLB 600 A2	6096022	7070381	171
SSLB 600 A2	6096022	7070381	179
SSLB 600 A4	5021827	7070400	144
SSLB 600 A4	5021827	7070400	171
SSLB 600 A4	5021827	7070400	179
SSLB 600 DD	6095667	7070334	144
SSLB 600 DD	6095667	7070334	171
SSLB 600 DD	6095667	7070334	178
SSLB 600 FS	6095186	7070233	144
SSLB 600 FS	6095186	7070233	171
SSLB 600 FS	6095186	7070233	178
		/100 pc.	
SSP 20-40 M6 A2	6342174	1486242	464
SSP 20-40 M6 A4	6342181	1486244	464
SSP 20-40 M6 FT	6342167	1486238	464
SSP 20-40 M8 A2	6342211	1486292	464
SSP 20-40 M8 A4	6342228	1486294	464
SSP 20-40 M8 FT	6342204	1486288	464
SSP 6-21 M6 A2	6342136	1486234	463
SSP 6-21 M6 A4	6342150	1486236	463
SSP 6-21 M6 FT	6342112	1486232	463
SSP 6-21 M8 A2	6342143	1486284	463
SSP 6-21 M8 A4	6342198	1486286	463
SSP 6-21 M8 FT	6342129	1486282	463
SVE 41 A2	5939238	1123126	510
SVE 41 A4	5939245	1123128	510
SVE 41 FT	5939214	1123121	510
		/pc.	
TGK 30 42 FT	6014415	6018963	344
TGK 30 42 FT	6014415	6018963	428
		/100 pc.	
TK 213	5145936	1484702	462
TK FL G	5407140	1488111	462
TK MULTI 16	5928133	1485144	461
TK MULTI 24	5928140	1485148	461
TK MULTI 8	5928126	1485140	461
		price/pair	
TKH-L-25 FT	6579259	6355812	471
TKH-S-30 ZL	6677702	6355805	472
		/100 pc.	
TKL 4	5146353	1485105	461
TKL 6	5146414	1485113	461
TKS 213-25	5145998	1484818	463
TKS 213-32	5146056	1484826	463
		price/pair	
TKS-L-25 FT	6579075	6355808	471
TKS-S-30 ZL	6677696	6355798	472
		/pc.	
TPB 100 A2	5523673	6357516	452
TPB 100 FS	5523666	6357506	359
TPB 100 FS	5523666	6357506	452
TPB 180 A2	6859078	6357524	453
TPB 180 FS	6859085	6357522	453
		/pc.	
TPB R A2	5523727	6357538	453
TPB R FS	5523680	6357536	360

Type	GTIN	Item no.	Page
		/pc.	
TPB R FS	5523680	6357536	453
TPD 145 FS	6198610	6363806	439
TPD 145 FT	5076858	6363861	440
TPD 245 FS	6198672	6363814	439
TPD 245 FT	5076865	6363865	440
TPD 345 FS	6198733	6363822	439
TPD 345 FT	5076896	6363869	440
TPD 445 FS	5460381	6363826	439
TPD 545 FS	5460428	6363829	439
TPDG 145 A2	5617747	6365989	443
TPDG 145 FS	6511754	6365906	441
TPDG 145 FT	5076902	6365977	442
TPDG 195 A2	5617754	6365991	443
TPDG 195 FS	6042609	6365914	441
TPDG 245 A2	5617761	6365993	443
TPDG 245 FS	6511815	6365922	441
TPDG 245 FT	5076919	6365981	442
TPDG 345 A2	5617778	6365995	443
TPDG 345 FS	6984329	6365949	441
TPDG 345 FT	5076926	6365985	442
TPS 445 FS	6199334	6364322	433
TPS 445 FT	6473717	6364403	434
TPS 545 FS	6199396	6364349	433
TPS 545 FT	6473779	6364500	434
TPS 645 FS	6199457	6364365	433
TPS 645 FT	6473830	6364608	434
TPS KS OR	5668084	6364625	443
TPSA 145 FS	6198979	6364101	435
TPSA 145 FT	6473892	6364659	436
TPSA 195 FT	6555673	6364683	436
TPSA 245 FS	6199099	6364209	435
TPSA 245 FT	6473953	6364667	436
TPSA 345 FS	6199273	6364306	435
TPSA 345 FT	6474011	6364675	436
TPSAG 145 FS	6627554	6366015	437
TPSAG 145 FT	5076957	6366131	438
TPSAG 195 FS	6627615	6366023	437
TPSAG 195 FT	5076964	6366135	438
TPSAG 245 FS	6545353	6366031	437
TPSAG 245 FT	5076971	6366139	438
TPSAG 345 FS	6545292	6366066	437
TPSAG 345 FT	5076988	6366143	438
		/100 pc.	
TR M10 1M A2	5023579	3141312	452
TR M10 1M A4	6098446	3141502	452
TR M10 1M G	5253396	3141209	359
TR M10 1M G	5253396	3141209	452
TR M10 2M A2	6096909	3141339	452
TR M10 2M G	5123583	3141140	359
TR M10 2M G	5123583	3141140	452
TR M12 1M A2	5594437	3141314	452
TR M12 1M G	5253457	3141306	359
TR M12 1M G	5253457	3141306	452
TR M12 2M G	5123644	3141144	359
TR M12 2M G	5123644	3141144	452
TR M6 1M A2	6096886	3141327	452
TR M6 1M A4	6098385	3141482	452
TR M6 1M G	5253211	3141047	452
TR M6 2M A2	6096893	3141328	452
TR M6 2M A4	6098392	3141484	452
TR M6 2M G	6096640	3141048	452
TR M8 1M A2	5023456	3141310	452
TR M8 1M A4	6098408	3141492	452
TR M8 1M G	5253334	3141128	359
TR M8 1M G	5253334	3141128	452
TR M8 2M A2	5882886	3141330	452
TR M8 2M A4	6098439	3141494	452
TR M8 2M G	5119982	3141136	359
TR M8 2M G	5119982	3141136	452
		price/m	
TSG 110 A2	5778431	6062255	126
TSG 110 A2	5778431	6062255	179
TSG 110 DD	5694700	6062335	126
TSG 110 DD	5694700	6062335	139
TSG 110 DD	5694700	6062335	179
TSG 110 DD	5694700	6062335	196
TSG 110 DD	5694700	6062335	199

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		price/m	
TSG 110 FS	5694588	6062122	126
TSG 110 FS	5694588	6062122	139
TSG 110 FS	5694588	6062122	179
TSG 110 FS	5694588	6062122	196
TSG 110 FS	5694588	6062122	199
TSG 135 DD	5694717	6062338	180
TSG 135 DD	5694717	6062338	196
TSG 135 DD	5694717	6062338	200
TSG 135 FS	5694595	6062132	180
TSG 135 FS	5694595	6062132	196
TSG 135 FS	5694595	6062132	200
TSG 30 A2	5694502	6062052	217
TSG 30 A4	5694533	6062054	217
TSG 30 DD	5694663	6062314	22
TSG 30 DD	5694663	6062314	29
TSG 30 DD	5694663	6062314	217
TSG 30 FS	5694496	6062050	22
TSG 30 FS	5694496	6062050	29
TSG 30 FS	5694496	6062050	217
TSG 45 A2	5694441	6062025	51
TSG 45 A2	5694441	6062025	86
TSG 45 A2	5694441	6062025	224
TSG 45 A2	5694441	6062025	298
TSG 45 A4	5694472	6062028	51
TSG 45 A4	5694472	6062028	86
TSG 45 A4	5694472	6062028	224
TSG 45 A4	5694472	6062028	298
TSG 45 DD	5694670	6062321	51
TSG 45 DD	5694670	6062321	85
TSG 45 DD	5694670	6062321	224
TSG 45 DD	5694670	6062321	298
TSG 45 FS	5694489	6062033	51
TSG 45 FS	5694489	6062033	85
TSG 45 FS	5694489	6062033	224
TSG 45 FS	5694489	6062033	298
TSG 60 A2	5694557	6062084	51
TSG 60 A2	5694557	6062084	86
TSG 60 A4	5694564	6062086	51
TSG 60 A4	5694564	6062086	86
TSG 60 DD	5694687	6062327	51
TSG 60 DD	5694687	6062327	86
TSG 60 DD	5694687	6062327	112
TSG 60 FS	5694540	6062068	51
TSG 60 FS	5694540	6062068	86
TSG 60 FS	5694540	6062068	112
TSG 85 A2	5694601	6062173	172
TSG 85 A2	5694601	6062173	191
TSG 85 A2	5694601	6062173	234
TSG 85 A2	5694601	6062173	312
TSG 85 DD	5694694	6062331	104
TSG 85 DD	5694694	6062331	113
TSG 85 DD	5694694	6062331	126
TSG 85 DD	5694694	6062331	139
TSG 85 DD	5694694	6062331	172
TSG 85 DD	5694694	6062331	190
TSG 85 DD	5694694	6062331	234
TSG 85 DD	5694694	6062331	311
TSG 85 FS	5694571	6062114	104
TSG 85 FS	5694571	6062114	113
TSG 85 FS	5694571	6062114	126
TSG 85 FS	5694571	6062114	139
TSG 85 FS	5694571	6062114	172
TSG 85 FS	5694571	6062114	190
TSG 85 FS	5694571	6062114	234
TSG 85 FS	5694571	6062114	311
		/pc.	
TSGV A2	5694724	6067970	22
TSGV A2	5694724	6067970	29
TSGV A2	5694724	6067970	51
TSGV A2	5694724	6067970	86
TSGV A2	5694724	6067970	104
TSGV A2	5694724	6067970	113
TSGV A2	5694724	6067970	126
TSGV A2	5694724	6067970	139
TSGV A2	5694724	6067970	172
TSGV A2	5694724	6067970	180
TSGV A2	5694724	6067970	191
TSGV A2	5694724	6067970	196
TSGV A2	5694724	6067970	200
TSGV A2	5694724	6067970	217
TSGV A2	5694724	6067970	224
TSGV A2	5694724	6067970	234

Type	GTIN	Item no.	Page
		/pc.	
TSGV A2	5694724	6067970	298
TSGV A2	5694724	6067970	312
US 3 100 A2	5705727	6342460	418
US 3 100 A4	5705833	6342491	418
US 3 100 FS	6223572	6342318	418
US 3 150 A2	5705765	6342463	418
US 3 150 A4	5705840	6342494	418
US 3 150 FS	6223633	6342328	418
US 3 20 FS	6221776	6342302	418
US 3 200 A2	5705772	6342466	418
US 3 200 A4	5705871	6342497	418
US 3 200 FS	6224296	6342338	418
US 3 30 A2	5705703	6342455	418
US 3 30 A4	5705789	6342485	418
US 3 30 FS	6222018	6342304	418
US 3 300 FS	5710905	6342340	418
US 3 40 FS	6222070	6342306	418
US 3 50 A2	5705710	6342457	418
US 3 50 A4	5705826	6342488	418
US 3 50 FS	6222315	6342308	418
US 3 60 FS	6222377	6342310	418
US 3 600 A2	5706373	6342468	418
US 3 600 FS	6224418	6342345	418
US 3 600 FT	6225491	6342450	339
US 3 600 FT	6225491	6342450	418
US 3 70 FS	6222438	6342312	418
US 3 80 FS	6222490	6342314	418
US 3 90 FS	6223510	6342316	418
US 3 K 100 A2	5705437	6342417	399
US 3 K 100 A4	5705697	6342397	400
US 3 K 100 FT	6225132	6342368	398
US 3 K 110 A4	5912873	6342396	400
US 3 K 110 FT	6225378	6342370	398
US 3 K 120 A4	5912880	6342398	400
US 3 K 120 FT	6225439	6342372	398
US 3 K 20 A2	5705352	6342401	399
US 3 K 20 A4	5705635	6342375	400
US 3 K 20 FT	6224470	6342351	398
US 3 K 30 A2	5705369	6342403	399
US 3 K 30 A4	5395355	6342530	400
US 3 K 30 FT	6224531	6342353	398
US 3 K 40 A2	5705376	6342405	399
US 3 K 40 A4	5705642	6342379	400
US 3 K 40 FT	6224593	6342355	398
US 3 K 50 A2	5705383	6342407	399
US 3 K 50 A4	5705659	6342381	400
US 3 K 50 FT	6224654	6342357	398
US 3 K 60 A2	5705390	6342409	399
US 3 K 60 A4	5618461	6342389	400
US 3 K 60 FT	6224715	6342359	398
US 3 K 70 A2	5705406	6342411	399
US 3 K 70 A4	5705666	6342391	400
US 3 K 70 FT	6224777	6342362	398
US 3 K 80 A2	5705413	6342413	399
US 3 K 80 A4	5705673	6342393	400
US 3 K 80 FT	6225019	6342364	398
US 3 K 90 A2	5705420	6342415	399
US 3 K 90 A4	5705680	6342395	400
US 3 K 90 FT	6225071	6342366	398
US 3 KS OR	5668039	6338458	339
US 3 KS OR	5668039	6338458	401
US 5 100 A2	6082094	6341133	419
US 5 100 FT	6284177	6340962	338
US 5 100 FT	6284177	6340962	419
US 5 110 A2	6082155	6341137	419
US 5 110 FT	5776277	6340964	338
US 5 110 FT	5776277	6340964	419
US 5 120 A2	6082216	6341141	419
US 5 150 FT	6437597	6340966	338
US 5 150 FT	6437597	6340966	419
US 5 20 A2	6081554	6341101	419
US 5 20 FT	6959006	6340881	338
US 5 20 FT	6959006	6340881	419
US 5 200 FT	6437658	6340970	338
US 5 200 FT	6437658	6340970	419
US 5 30 A2	6081615	6341105	419
US 5 30 A4	5020981	6341053	419
US 5 30 FT	6959068	6340903	338
US 5 30 FT	6959068	6340903	419
US 5 300 A2	6082278	6341152	419
US 5 300 A4	5022305	6341073	419

Type	GTIN	Item no. /pc.	Page
US 5 300 FT	6446957	6340989	338
US 5 300 FT	6446957	6340989	419
US 5 40 A2	6081677	6341109	419
US 5 40 A4	6181995	6341055	419
US 5 40 FT	6959129	6340911	338
US 5 40 FT	6959129	6340911	419
US 5 50 A2	6081738	6341113	419
US 5 50 A4	6182053	6341057	419
US 5 50 FT	6959181	6340938	338
US 5 50 FT	6959181	6340938	419
US 5 60 A4	6183319	6341059	419
US 5 60 FT	6601752	6340946	338
US 5 60 FT	6601752	6340946	419
US 5 600 FT	6437719	6340997	338
US 5 600 FT	6437719	6340997	419
US 5 70 A2	6081851	6341121	419
US 5 70 FT	6043927	6340950	338
US 5 70 FT	6043927	6340950	419
US 5 80 A2	6081912	6341125	419
US 5 80 A4	6237135	6341063	419
US 5 80 FT	6044047	6340954	338
US 5 80 FT	6044047	6340954	419
US 5 90 A2	6081974	6341129	419
US 5 90 A4	6183371	6341065	419
US 5 90 FT	6044160	6340958	338
US 5 90 FT	6044160	6340958	419
US 5 K 100 A2	6350711	6341390	405
US 5 K 100 A4	6459919	6341241	406
US 5 K 100 FT	6536290	6341616	404
US 5 K 110 A2	6350773	6341394	405
US 5 K 110 A4	6816552	6341245	406
US 5 K 110 FT	6536238	6341624	404
US 5 K 120 A2	6350834	6341398	405
US 5 K 120 A4	6816613	6341249	406
US 5 K 120 FT	6536177	6341632	404
US 5 K 20 A2	6477135	6341358	405
US 5 K 20 A4	6815531	6341209	406
US 5 K 20 FT	6536771	6341527	404
US 5 K 30 A2	6644230	6341362	405
US 5 K 30 A4	6815593	6341213	406
US 5 K 30 FT	6536719	6341535	404
US 5 K 40 A2	6350292	6341366	405
US 5 K 40 A4	6815654	6341217	406
US 5 K 40 FT	6536658	6341543	404
US 5 K 50 A2	6350414	6341370	405
US 5 K 50 A4	6815715	6341221	406
US 5 K 50 FT	6536597	6341551	404
US 5 K 60 A2	6350476	6341374	405
US 5 K 60 A4	6815890	6341225	406
US 5 K 60 FT	6536535	6341578	404
US 5 K 70 A2	6350537	6341378	405
US 5 K 70 A4	6816194	6341228	406
US 5 K 70 FT	6536474	6341586	404
US 5 K 80 A2	6350599	6341382	405
US 5 K 80 A4	6816316	6341233	406
US 5 K 80 FT	6536412	6341594	404
US 5 K 90 A2	6624492	6341386	405
US 5 K 90 A4	6816439	6341237	406
US 5 K 90 FT	6536351	6341608	404
US 5 KS OR	5668046	6338462	338
US 5 KS OR	5668046	6338462	407
US 7 100 A2	6189434	6341810	420
US 7 100 FT	6188178	6340180	340
US 7 100 FT	6188178	6340180	420
US 7 110 FT	6188239	6340199	420
US 7 120 FT	6188291	6340202	340
US 7 120 FT	6188291	6340202	420
US 7 130 FT	6188352	6340210	340
US 7 130 FT	6188352	6340210	420
US 7 140 FT	6188413	6340229	340
US 7 140 FT	6188413	6340229	420
US 7 150 FT	6188475	6340237	340
US 7 150 FT	6188475	6340237	420
US 7 160 FT	6188536	6340245	340
US 7 160 FT	6188536	6340245	420
US 7 170 FT	6188598	6340253	340
US 7 170 FT	6188598	6340253	420
US 7 180 FT	6188659	6340261	340
US 7 180 FT	6188659	6340261	420
US 7 190 FT	6188710	6340288	340
US 7 190 FT	6188710	6340288	420
US 7 20 FT	6187690	6340016	340

Type	GTIN	Item no. /pc.	Page
US 7 20 FT	6187690	6340016	420
US 7 200 A2	6190034	6341950	420
US 7 200 FT	6188772	6340296	340
US 7 200 FT	6188772	6340296	420
US 7 30 FT	6187751	6340032	340
US 7 30 FT	6187751	6340032	420
US 7 300 A2	6190096	6341969	420
US 7 300 FT	6188895	6340377	340
US 7 300 FT	6188895	6340377	420
US 7 40 FT	6187812	6340059	340
US 7 40 FT	6187812	6340059	420
US 7 400 FT	6458233	6340393	340
US 7 400 FT	6458233	6340393	420
US 7 50 A2	6189137	6341764	420
US 7 50 FT	6187874	6340075	340
US 7 50 FT	6187874	6340075	420
US 7 60 FT	6187935	6340091	340
US 7 60 FT	6187935	6340091	420
US 7 600 A2	6190157	6341993	420
US 7 600 A4	6411634	6341995	420
US 7 600 FT	6188833	6340318	340
US 7 600 FT	6188833	6340318	420
US 7 70 FT	6187997	6340113	340
US 7 70 FT	6187997	6340113	420
US 7 80 FT	6188055	6340148	340
US 7 80 FT	6188055	6340148	420
US 7 90 FT	6188116	6340164	420
US 7 K 100 A2	6185894	6338690	412
US 7 K 100 A4	5913238	6338872	413
US 7 K 100 FT	6187034	6339182	411
US 7 K 110 A2	6185955	6338704	412
US 7 K 110 FT	6187096	6339190	411
US 7 K 120 A2	6186013	6338712	412
US 7 K 120 FT	6187157	6339204	411
US 7 K 130 FT	6187218	6339212	411
US 7 K 140 A2	6186136	6338739	412
US 7 K 140 FT	6187270	6339220	411
US 7 K 150 A2	6186198	6338747	412
US 7 K 150 FT	6187331	6339239	411
US 7 K 160 FT	6187393	6339247	411
US 7 K 170 FT	6187454	6339255	411
US 7 K 180 FT	6187515	6339263	411
US 7 K 190 FT	6187577	6339271	411
US 7 K 20 A2	6185412	6338607	412
US 7 K 20 FT	6186556	6339018	411
US 7 K 200 A2	6186495	6338801	412
US 7 K 200 A4	5913245	6338881	413
US 7 K 200 FT	6187638	6339298	411
US 7 K 30 A2	6185474	6338615	412
US 7 K 30 FT	6186617	6339034	411
US 7 K 40 A2	6185535	6338623	412
US 7 K 40 FT	6186679	6339050	411
US 7 K 50 A2	6185597	6338631	412
US 7 K 50 FT	6186730	6339077	411
US 7 K 60 A2	6185658	6338658	412
US 7 K 60 FT	6186792	6339093	411
US 7 K 70 A2	6185719	6338666	412
US 7 K 70 FT	6186853	6339115	411
US 7 K 80 A2	6185771	6338674	412
US 7 K 80 FT	6186914	6339131	411
US 7 K 90 A2	6185832	6338682	412
US 7 K 90 FT	6186976	6339166	411
US 7 KS OR	5668060	6338497	340
US 7 KS OR	5668060	6338497	414
VEK-GRM 3.9 FS	5304111	6016694	272
VEK-GRM 4.8 FS	5304128	6016696	272
VF AZK 50 DD	6046089	6066623	355
VF AZK 50 FS	5049623	6066615	355
VF AZK FT	6064991	6066550	356
VIS 8 FT	6014231	6018300	344
VL-3Q2.5 10 SW	5123248	6108159	358
VL-3Q2.5 3 SW	5123118	6108152	358
VL-3Q2.5 5 SW	5123163	6108154	358
VUS 3 A2	5706007	6018517	401
VUS 3 A4	5618454	6018520	401
VUS 3 FT	6229154	6018513	339
VUS 3 FT	6229154	6018513	400
VUS 5 A4	6082773	6018509	407

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
VUS 5 FT	6446896	6018505	338
VUS 5 FT	6446896	6018505	406
VUS 7 A2	6014354	6018408	414
VUS 7 FT	6014293	6018378	340
VUS 7 FT	6014293	6018378	413
WAAD 200 DD	6080717	6231922	202
WAAD 200 FS	6080410	6231900	202
WAAD 300 DD	6080779	6231926	202
WAAD 300 FS	6080472	6231904	202
WAAD 400 DD	6080830	6231930	202
WAAD 400 FS	6080533	6231908	202
WAAD 500 DD	6080892	6231934	202
WAAD 500 FS	6080595	6231912	202
WAAD 600 DD	6080953	6231938	202
WAAD 600 FS	6080656	6231916	202
WB 30 75 FT	6014712	6019617	336
WB GR A4	6561261	6017164	271
WB GR FT	6561254	6017160	271
		/100 pc.	
WBDHE 41 A2	5939290	1123195	509
WBDHE 41 A4	5939306	1123197	509
WBDHE 41 FT	5939276	1123191	509
		/pc.	
WBH CGR50 A2	5890690	6016411	271
WBV CGR50 A2	5890706	6016415	271
WDBRL 90 20 DD	6504015	6231527	202
WDBRL 90 20 FS	6503711	6231462	202
WDBRL 90 30 DD	6504077	6231535	202
WDBRL 90 30 FS	6503773	6231470	202
WDBRL 90 40 DD	6504138	6231543	202
WDBRL 90 40 FS	6503834	6231489	202
WDBRL 90 50 DD	6504190	6231551	202
WDBRL 90 50 FS	6503896	6231497	202
WDBRL 90 60 DD	6504251	6231578	202
WDBRL 90 60 FS	6503957	6231500	202
		price/m	
WDRL 1116 20 A2	5751267	6227360	201
WDRL 1116 20 A4	6802449	6227361	201
		price/m	
WDRL 1116 20 DD	6072613	6227600	201
WDRL 1116 20 FS	6169696	6227422	201
WDRL 1116 30 A2	5751304	6227362	201
WDRL 1116 30 A4	6802470	6227363	201
		price/m	
WDRL 1116 30 DD	6072736	6227604	201
WDRL 1116 30 FS	6169757	6227430	201
WDRL 1116 40 A2	5751311	6227364	201
WDRL 1116 40 A4	6802500	6227365	201
		price/m	
WDRL 1116 40 DD	6072910	6227608	201
WDRL 1116 40 FS	6169818	6227449	201
WDRL 1116 50 A2	5751328	6227366	201
WDRL 1116 50 A4	6802531	6227367	201
		price/m	
WDRL 1116 50 DD	6073092	6227612	201
WDRL 1116 50 FS	6169870	6227457	201
WDRL 1116 60 A2	5751359	6227368	201
WDRL 1116 60 A4	6803590	6227369	201
		price/m	
WDRL 1116 60 DD	6073276	6227616	201
WDRL 1116 60 FS	6169931	6227465	201
		/pc.	
WDTRL 200 DD	6504619	6231667	202
WDTRL 300 DD	6504671	6231675	202
WDTRL 400 DD	6504732	6231683	202
WDTRL 500 DD	6977420	6231691	202
WDTRL 600 DD	6977482	6231705	202
WEAS 110 A2	5242536	6098483	173
WEAS 110 FS	5242512	6098475	173
WEAS 110 FT	5242529	6098479	173
WEAS 160 A2	5696346	6098868	181
WEAS 160 FS	5242543	6098860	181
WEAS 160 FT	5242550	6098864	181

Type	GTIN	Item no.	Page
		/pc.	
WFP 110 FT	6423583	6232500	190
		price/m	
WKL 2020 FT	6614844	6232102	198
WKL 2030 FT	6614851	6232104	198
WKL 2040 FT	6614868	6232106	198
WKL 2050 FT	6614875	6232108	198
WKL 2060 FT	6614882	6232110	198
WKLD 2020 DD	6614790	6232402	201
WKLD 2030 DD	6614806	6232404	201
WKLD 2040 DD	6614813	6232406	201
WKLD 2050 DD	6614820	6232408	201
WKLD 2060 DD	6614837	6232410	201
WKLG 1120 A2	5037262	6311202	187
WKLG 1120 A4	5403128	6311225	188
WKLG 1120 FS	6883035	6311008	185
WKLG 1120 FT	6883332	6311059	186
WKLG 1130 A2	5037293	6311206	187
WKLG 1130 A4	5866282	6311227	188
WKLG 1130 FS	6883097	6311012	185
WKLG 1130 FT	6883394	6311063	186
WKLG 1140 A2	5037309	6311210	187
WKLG 1140 A4	5403135	6311229	188
WKLG 1140 FS	6883158	6311016	185
WKLG 1140 FT	6883455	6311067	186
WKLG 1150 A2	5037316	6311214	187
WKLG 1150 A4	5866329	6311231	188
WKLG 1150 FS	6883219	6311020	185
WKLG 1150 FT	6883516	6311071	186
WKLG 1160 A2	5037323	6311218	187
WKLG 1160 A4	5403142	6311233	188
WKLG 1160 FS	6883271	6311024	185
WKLG 1160 FT	6883578	6311075	186
WKLG 1620 FS	6169092	6227023	193
WKLG 1620 FT	6169399	6227120	194
WKLG 1630 FS	6169153	6227031	193
WKLG 1630 FT	6169450	6227139	194
WKLG 1640 FS	6169214	6227058	193
WKLG 1640 FT	6169511	6227147	194
WKLG 1650 FS	6169276	6227066	193
WKLG 1650 FT	6169573	6227155	194
WKLG 1660 FS	6169337	6227074	193
WKLG 1660 FT	6169634	6227163	194
WKSG 120 A2	5683506	6098161	169
WKSG 120 FS	6351435	6098111	167
WKSG 120 FT	6351732	6098141	168
WKSG 130 A2	5683513	6098165	169
WKSG 130 FS	6351497	6098115	167
WKSG 130 FT	6370030	6098145	168
WKSG 140 A2	5683520	6098169	169
WKSG 140 FS	6351558	6098119	167
WKSG 140 FT	6034277	6098149	168
WKSG 150 A2	5683568	6098173	169
WKSG 150 FS	6351619	6098123	167
WKSG 150 FT	6034031	6098153	168
WKSG 160 A2	5683575	6098177	169
WKSG 160 FS	6351671	6098127	167
WKSG 160 FT	6033973	6098157	168
WKSG 162 A2	5683582	6098571	176
WKSG 162 FS	6334810	6098501	174
WKSG 162 FT	6810734	6098550	175
WKSG 163 A2	5683599	6098573	176
WKSG 163 FS	6812059	6098505	174
WKSG 163 FT	6766390	6098554	175
WKSG 164 A2	5683605	6098575	176
WKSG 164 FS	6808939	6098509	174
WKSG 164 FT	6766451	6098558	175
WKSG 165 A2	5683612	6098577	176
WKSG 165 FS	6808397	6098513	174
WKSG 165 FT	6656059	6098562	175
WKSG 166 A2	5683629	6098579	176
WKSG 166 FS	6808335	6098517	174
WKSG 166 FT	6656295	6098566	175
		/pc.	
WKV 35 FS	6050116	6043038	23
WKV 35 FS	6050116	6043038	30
WKV 60 FS	6050178	6043062	54
WKV 60 FS	6050178	6043062	88
WKV 60 FT	6990382	6042910	54

Type	GTIN	Item no.	Page
		/pc.	
WKV 60 FT	6990382	6042910	88
WLB 90 112 A4	5910251	6312550	192
WLB 90 112 FS	6301874	6312330	191
WLB 90 112 FT	6302178	6312438	191
WLB 90 113 A4	5910268	6312552	192
WLB 90 113 FS	6301935	6312349	191
WLB 90 113 FT	6302239	6312446	191
WLB 90 114 A4	5910312	6312554	192
WLB 90 114 FS	6301997	6312357	191
WLB 90 114 FT	6302291	6312454	191
WLB 90 115 A4	5910329	6312556	192
WLB 90 115 FS	6302055	6312365	191
WLB 90 115 FT	6302352	6312462	191
WLB 90 116 A4	5910350	6312558	192
WLB 90 116 FS	6302116	6312373	191
WLB 90 116 FT	6302413	6312470	191
WLB 90 162 FS	6171798	6229336	197
WLB 90 162 FT	6172092	6229425	197
WLB 90 163 FS	6171859	6229344	197
WLB 90 163 FT	6172153	6229433	197
WLB 90 164 FS	6171910	6229352	197
WLB 90 164 FT	6172214	6229441	197
WLB 90 165 FS	6171972	6229360	197
WLB 90 165 FT	6172276	6229468	197
WLB 90 166 FS	6172030	6229379	197
WLB 90 166 FT	6172337	6229476	197
WLB 90 2020 FT	6176298	6233422	200
WLB 90 2030 FT	6176359	6233430	200
WLB 90 2040 FT	6176410	6233449	200
WLB 90 2050 FT	6176472	6233457	200
WLB 90 2060 FT	6176533	6233465	200
WLBF 90 162 FT	6174492	6230725	197
WLBF 90 163 FT	6174553	6230733	197
WLBF 90 164 FT	6174614	6230741	197
WLBF 90 165 FT	6174676	6230768	197
WLBF 90 166 FT	6174737	6230776	197
WLBS 90 162 FT	6173891	6230423	197
WLBS 90 163 FT	6173952	6230431	197
WLBS 90 164 FT	6174010	6230458	197
WLBS 90 165 FT	6174072	6230466	197
WLBS 90 166 FT	6174133	6230474	197
WLT 1120 A4	5910367	6312815	192
WLT 1120 FS	6302475	6312632	192
WLT 1120 FT	6302710	6312713	192
WLT 1130 A4	5910374	6312817	192
WLT 1130 FS	6302536	6312640	192
WLT 1130 FT	6302772	6312721	192
WLT 1140 A4	5910381	6312819	192
WLT 1140 FS	6302598	6312659	192
WLT 1140 FT	6302833	6312748	192
WLT 1150 A4	5910435	6312821	192
WLT 1150 FS	6304271	6312667	192
WLT 1150 FT	6302895	6312756	192
WLT 1160 A4	5910442	6312823	192
WLT 1160 FS	6302659	6312675	192
WLT 1160 FT	6302956	6312764	192
WLT 1620 FT	6172696	6229727	197
WLT 1630 FT	6172757	6229735	197
WLT 1640 FT	6172818	6229743	197
WLT 1650 FT	6172870	6229751	197
WLT 1660 FT	6172931	6229778	197
WP 30 35 2000 FT	6199754	6373100	507
WP 30 35 5000 FT	5614159	6373103	507
		price/m	
WP 40 65 5000 A2	6199631	6373062	507
WP 40 65 5000 FT	6199693	6373070	507
		/pc.	
WPK SL OR	5668107	6372898	508
WPK SR OR	5668091	6372881	508
WRAA 120 FS	6352395	6098405	173
WRAA 120 FS	6352395	6098405	192
WRAA 120 FT	6001033	6098445	173
WRAA 120 FT	6001033	6098445	192
WRAA 130 FS	6352456	6098409	173
WRAA 130 FS	6352456	6098409	192

Type	GTIN	Item no.	Page
		/pc.	
WRAA 130 FT	6001095	6098449	173
WRAA 130 FT	6001095	6098449	192
WRAA 140 FS	6352517	6098413	173
WRAA 140 FS	6352517	6098413	192
WRAA 140 FT	6001156	6098453	173
WRAA 140 FT	6001156	6098453	192
WRAA 150 FS	6352579	6098417	173
WRAA 150 FS	6352579	6098417	192
WRAA 150 FT	6001217	6098457	173
WRAA 150 FT	6001217	6098457	192
WRAA 160 FS	6000975	6098421	173
WRAA 160 FS	6000975	6098421	192
WRAA 160 FT	6001279	6098461	173
WRAA 160 FT	6001279	6098461	192
WRAA 162 FS	6656653	6098800	180
WRAA 162 FT	6335770	6098827	180
WRAA 163 FS	6656714	6098804	180
WRAA 163 FT	6335831	6098831	180
WRAA 164 FS	6335596	6098808	180
WRAA 164 FT	6335893	6098835	180
WRAA 165 FS	6335657	6098812	180
WRAA 165 FT	6656776	6098839	180
WRAA 166 FS	6335718	6098816	180
WRAA 166 FT	6657018	6098843	180
WRB 90 120 FS	6033676	6098304	172
WRB 90 120 FT	6352159	6098344	172
WRB 90 130 FS	6351916	6098308	172
WRB 90 130 FT	6352210	6098348	172
WRB 90 140 FS	6351978	6098312	172
WRB 90 140 FT	6624737	6098352	172
WRB 90 150 FS	6352036	6098316	172
WRB 90 150 FT	6352272	6098356	172
WRB 90 160 FS	6352098	6098320	172
WRB 90 160 FT	6352333	6098360	172
WRB 90 162 FS	6335237	6098703	180
WRB 90 162 FT	6335534	6098730	180
WRB 90 163 FS	6335299	6098707	180
WRB 90 163 FT	6656417	6098734	180
WRB 90 164 FS	6335350	6098711	180
WRB 90 164 FT	6656479	6098738	180
WRB 90 165 FS	6335411	6098715	180
WRB 90 165 FT	6656530	6098742	180
WRB 90 166 FS	6335473	6098719	180
WRB 90 166 FT	6656592	6098746	180
WRGV 110 A2	6897018	6091338	171
WRGV 110 A2	6897018	6091338	190
WRGV 110 A4	5403081	6091343	171
WRGV 110 A4	5403081	6091343	190
WRGV 110 FS	6299294	6091318	171
WRGV 110 FS	6299294	6091318	190
WRGV 110 FT	6299355	6091334	171
WRGV 110 FT	6299355	6091334	190
WRGV 160 A2	5696407	6227965	179
WRGV 160 FS	6171071	6227953	179
WRGV 160 FS	6171071	6227953	196
WRGV 160 FT	6171132	6227961	179
WRGV 160 FT	6171132	6227961	196
WRV 200 FT	6175574	6232507	199
WRVL 110 A2	6901814	6091229	170
WRVL 110 A2	6901814	6091229	189
WRVL 110 A4	5403074	6091234	170
WRVL 110 A4	5403074	6091234	189
WRVL 110 FS	6299171	6091164	170
WRVL 110 FS	6299171	6091164	189
WRVL 110 FT	6299232	6091180	170
WRVL 110 FT	6299232	6091180	189
WRVL 160 A2	5684107	6227724	177
WRVL 160 A4	5910077	6227730	177
WRVL 160 FS	6170470	6227708	177
WRVL 160 FS	6170470	6227708	195
WRVL 160 FT	6170531	6227716	177
WRVL 160 FT	6170531	6227716	195
WRWV 160 A A2	5696353	6227868	178
WRWV 160 A FS	6170838	6227856	178
WRWV 160 A FS	6170838	6227856	195
WRWV 160 A FT	6170890	6227864	178
WRWV 160 A FT	6170890	6227864	195
WRWV 160 I A2	5696360	6227914	178

Industrieinstallationen - Kabeltragsysteme / en / 2022/09/29 07:51:22 07:51:22 (LLExport_03208) / 2022/09/29 07:51:44 07:51:44

Type listing

Type	GTIN	Item no.	Page
		/pc.	
WRWV 160 I FS	6170951	6227902	177
WRWV 160 I FS	6170951	6227902	195
WRWV 160 I FT	6171019	6227910	177
WRWV 160 I FT	6171019	6227910	195
WRWV 200 A FT	6175758	6232604	199
WRWV 200 I FT	6175819	6232612	199
WRWV 200 V FT	6175932	6232663	199
WRWVK 110 A2	6309672	6091393	170
WRWVK 110 A2	6309672	6091393	189
WRWVK 110 A4	5403111	6091397	170
WRWVK 110 A4	5403111	6091397	189
WRWVK 110 FS	6309610	6091377	170
WRWVK 110 FS	6309610	6091377	189
WRWVK 160 A2	5767923	6227836	177
WRWVK 160 A2	5767923	6227836	195
WRWVK 160 FS	5767701	6227832	177
WRWVK 160 FS	5767701	6227832	195
WRWVV 110 FS	5437918	6091379	190
WSK 40 100 FT	6007455	6008100	345
WSK 40 40 FT	6007097	6008046	345
WSK 40 50 FT	6007158	6008054	345
WSK 40 60 FT	6007219	6008062	345
WSK 40 70 FT	6007271	6008070	345
WSK 40 80 FT	6007332	6008089	345
WSK 40 90 FT	6007394	6008097	345
WW 100 15 FS	6608591	6015360	455
WW 100 20 FS	6608652	6015379	455
ZABF	6699063	2362979	160
		/pc.	
ZSF	5518419	2362970	159

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