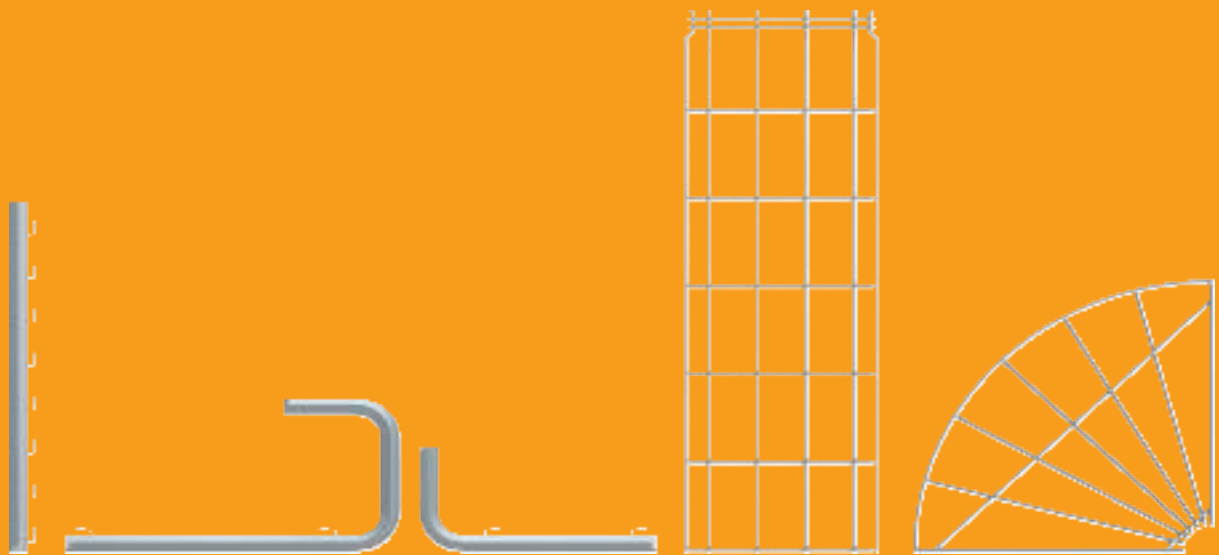




Mesh cable tray systems



Quick
Screwless
Safe



OBO Bettermann's mesh cable tray systems are the ideal basis for quick, safe and economical cable routing in all areas of professional electrical installations. The GR Magic®, the Magic® G mesh cable tray and the C mesh cable tray with their various shapes, side heights, surfaces and range of accessories are ideal for satisfying the most varied cable routing requirements. The systems are well thought through and extremely efficient when in daily use.

Installation time is an important factor when it comes to choosing whether to buy a product or not. With the GR-Magic® mesh cable tray in both the standard design or as a G mesh cable tray, OBO Bettermann can offer a true system innovation. Thanks to the patented connection system developed by OBO, the mesh cable tray can be mounted in a matter of seconds – without any connectors or tools. Just connect the two parts and you're done. The system has therefore redefined the concepts of rapid mounting and flexibility.

OBO
BETTERMANN

Logical

The OBO mesh cable tray system

Magic® mesh cable tray



Side height mm	F Pre-galvanised	G Electro-galvanised	FT Hot-dip galvanised	A2 Stainless steel	A4 Stainless steel	*
35		✓	✓	✓	✓	
55	✓	✓	✓	✓	✓	
105		✓	✓	✓	✓	

F G FT A2 A4

For fixing on brackets, suspension fittings and spacer clamps

Magic® G mesh cable tray



Side height mm	G Electro-galvanised	FT Hot-dip galvanised	A2 Stainless steel	A4 Stainless steel	*
50	✓	✓	✓	✓	
75	✓	✓	✓	✓	
125	✓	✓	✓	✓	
150	✓	✓	✓	✓	

G FT A2 A4

For direct wall or ceiling mounting

C mesh cable tray



Side height mm	FT Hot-dip galvanised	A2 Stainless steel	*
50	✓	✓	

FT A2

For fixing on brackets, suspension fittings and spacer clamps

* Further combinations of surfaces and systems on request



Magic® mesh cable tray



The new GR-Magic® mesh cable tray really speeds up installation and manages this with no loss of stability and load-bearing capacity. The moulded connectors for screwless quick mounting ensure extremely quick installation times, even for complex mounting operations. Load tests show that GR-Magic® systems can fully match up to traditional screw connections.



The mesh cable trays are available with side heights of 35, 55 and 105 mm in the electrogalvanised “Titan look” version, hot-dip galvanised version and in stainless steel. The comprehensive range of practical accessories, such as mesh cable tray bends, clamping pieces, quick connectors, barrier strips, suspension profiles, brackets, etc., ensures that the product range is complete down to the smallest detail.

Compliant with standards

The electrical properties are also first class: the values required by the VDE guidelines 0639 and in the new IEC/EN 61537 "Cable management. Cable tray systems and cable ladder systems" are achieved easily.

In addition, the system satisfies the stringent NEMA requirements for the American market. As a result, the GR-Magic® mesh cable tray can also be used as a protective conductor.



Function maintenance

1

Laying system/support system:
GRM screwless straight connection, fire-tested

2

Safety cables:
E30-E90

3

Tested and approved cable system with function maintenance according to DIN 4102 Part 12

✓

Function maintenance with the
GR-Magic®

1

GRM

2



3



✓



Function maintenance with the GR-Magic®

Besides rapid mounting and the wide range of applications, the GR-Magic® offers another key benefit: it can be used to maintain function for fire safety purposes in order to ensure supply to safety-related systems for a certain period of time in the event of a fire. The GR-Magic® has proven its stability in an impressive manner in fire testing according to DIN 4102 Part 12.

This installation design was put through its paces with a cable load of 15 kg/m and a support distance of 1.5 m. Thanks to the GR-Magic®, a further support system is now available for which function maintenance comes assured.



Impressive range of accessories

In addition to providing quick straight connections, the innovative GR-Magic® range of accessories is also easy to handle and use thanks to its screwless connections. For example, the mesh cable trays can be flexibly installed on mounting rails using fastening clips or on wall and support brackets using clamping lugs. Cut mesh cable trays without moulded connectors are easy to join together with a quick connector, while barrier strips are fastened with a clamping piece and cable exit plates with clamping lugs.

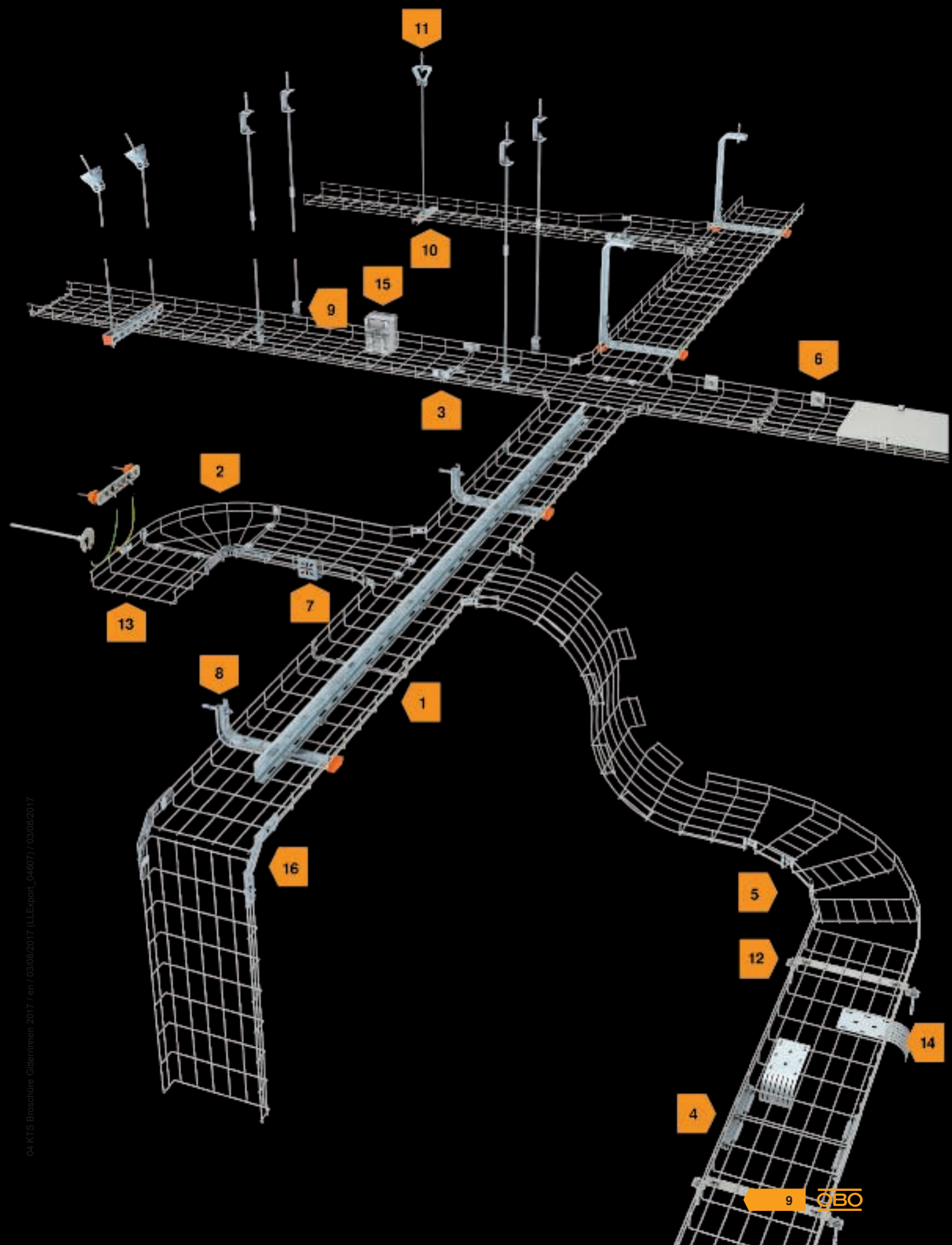


Magic down to the last detail

The system's effectiveness is provided by the perfectly formed mesh cable tray for screwless straight connection, complemented by the wide range of well-thought-out system components. The many lockable and clamp-on elements continue the basic principle of the Magic system down to the last detail. Exceptional ease of use is also a priority for all additional fastening and system components, for example when creating bends of different radii with special corner connectors.



1	
2	90° mesh cable tray bend
3	Quick connector
4	Mesh cable tray connector, long
5	Corner connector
6	Wall and central fastener
7	Mounting plate MPG
8	Wall and support bracket
9	Side holder
10	Centre suspension
11	Ceiling bracket, variable
12	Spacer clamp
13	Earthing terminal with earthing screw
14	Cable exit plate
15	Fastening element for junction boxes
16	Installation profile



As flexible as your work

Mesh cable trays cannot always be routed lengthways. Depending on the application, it is necessary to overcome structural obstacles or to make unusual changes of direction, horizontally and vertically. As the OBO mesh cable trays can be cut to size as required and the system has an extensive range of accessories, it can be adapted to any structural conditions.





Reference

- Lieken Brot-und Backwaren GmbH
- Product: mesh cable tray in various widths and side heights
- Units: 2.5 km
- Location of use: industrial and administrative areas

A variety of surfaces

The mesh cable trays are available in a wide variety of surface designs that enable them to be used both indoors and outdoors. For indoors, OBO has developed the electrogalvanised surface further and made it even more visually appealing. The result is the new OBO "Titan look". This provides the mesh cable trays with an unmistakable, high-quality optical appearance, which closely resembles stainless steel – making it ideal for use in false ceilings and where in view.

For use in aggressive environments as well as in the food industry, OBO offers the GR mesh cable tray in the stainless steel 1.4301 and 1.4401 versions. The mesh cable trays are made from quality stainless steel wires and pickled in a subsequent process. This protects the wires against extreme chemical loads. As they are taste-neutral and resistant to cleaning agents, disinfectants and sterilisers, these mesh cable tray systems can also be used in the food industry.



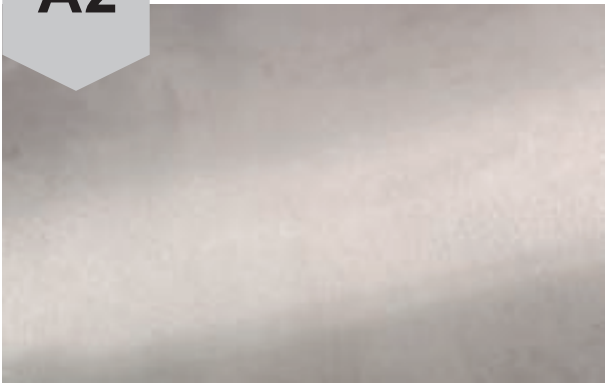
F	
Surface	Hot galvanisation
Coating thickness	Average value approx. 8-10 µm
Standards	Galvanisation to DIN EN 10244-2
Location of use	Indoors



G	
Surface	Electrogalvanisation
Coating thickness	Average value approx. 2.5-10 µm
Standards	Electrolytic galvanisation in accordance with DIN EN 12329
Location of use	Indoors

FT**FT**

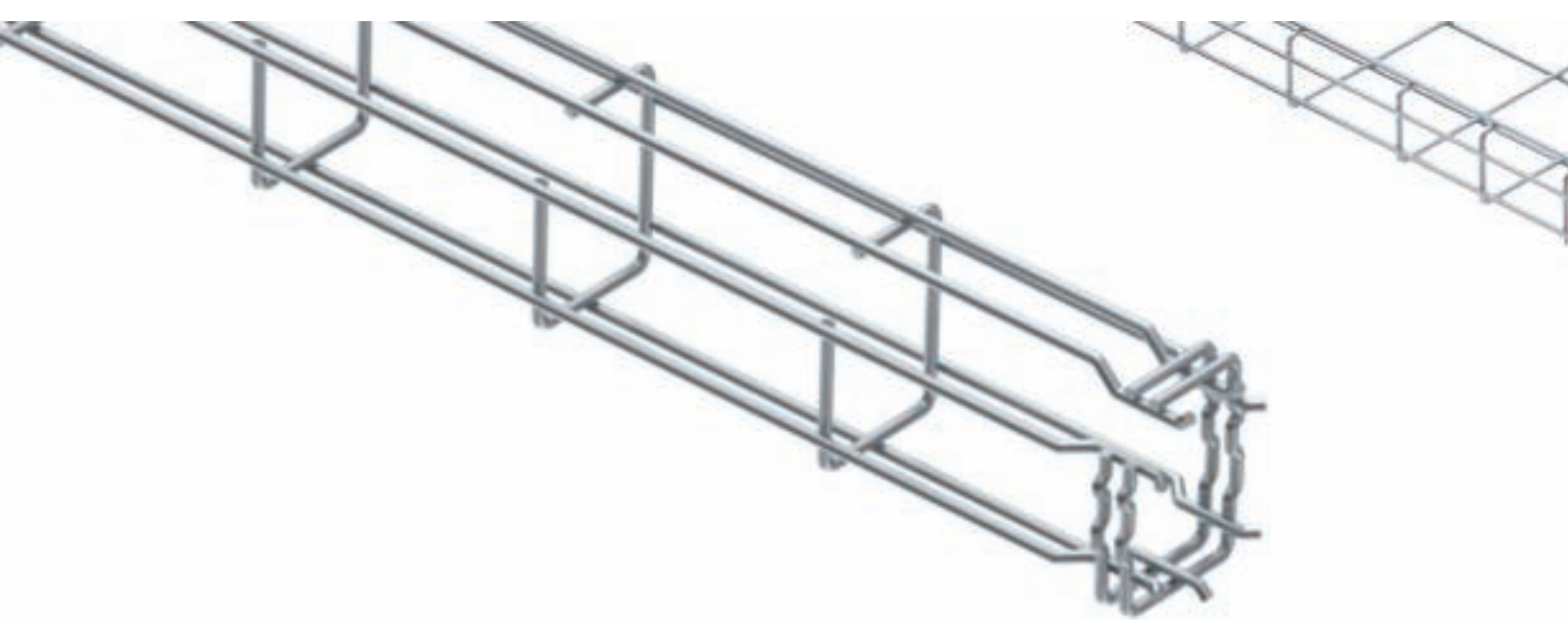
Surface	Hot-dip galvanisation
Coating thickness	Average value approx. 40-60 µm
Standards	Galvanisation according to the hot-dip method to DIN EN ISO 1461
Location of use	Outdoors

A2**A2**

Material	Stainless steel A2
Designations	European material designation: 1.4301 American material designation: AISI 304
Special features	Welded components are also passivated; unwelded components are rinsed and degreased
Location of use	Industrial areas with high levels of humidity and aggressive atmosphere, food industry, chemical and pharmaceuticals industry

A4**A4**

Material	Stainless steel A4
Designations	European material designation: 1.4401/1.4404/1.4571 American material designation: AISI 316/316L/316Ti
Special features	Welded components are also passivated; unwelded components are rinsed and degreased
Location of use	Buildings or areas with almost constant condensation and high levels of impurities, coastal or offshore areas with high levels of salt



Magic® G mesh cable tray



G FT A2 A4

The system for direct wall and ceiling mounting



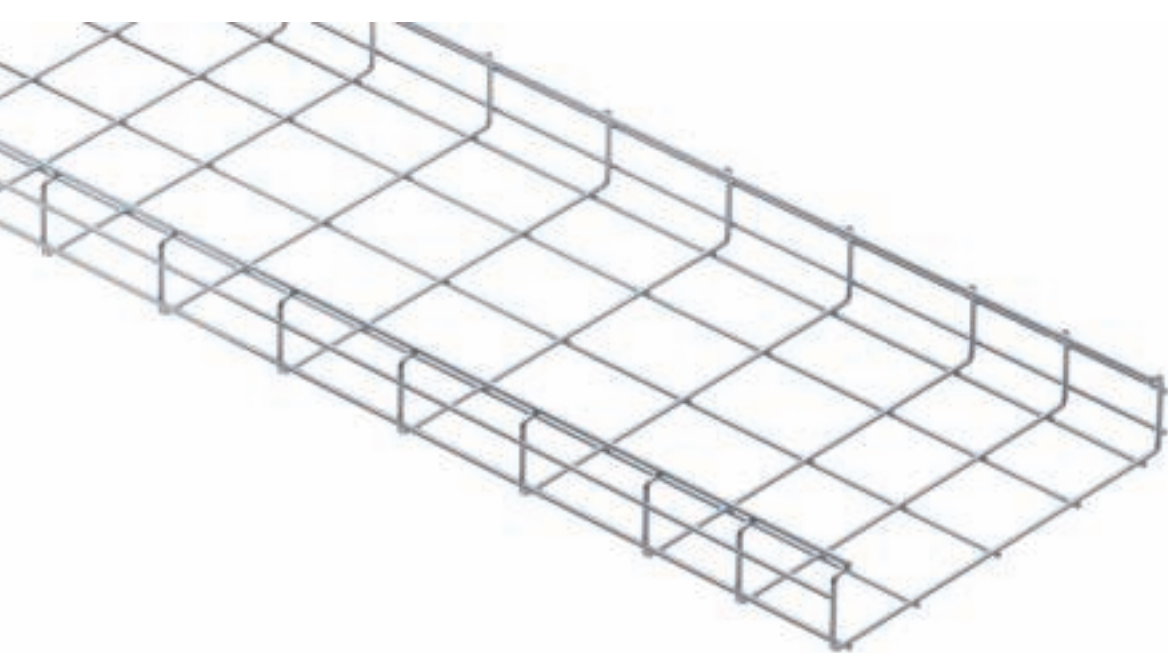
Optimum room usage

Even if space is tight, the Magic® G mesh cable tray can be mounted almost anywhere. It can be attached directly to walls and ceilings in almost any position, providing optimum cable routing particularly in false ceilings, server rooms and office buildings. This system also scores highly thanks to its screwless design.



A variety of materials

Dry rooms, wet rooms, outdoor areas, the food industry or tunnel construction – the GR-Magic® has the right surface for any area. The product range runs from electrogalvanised and hot-dip galvanised right through to stainless steel variants.



C mesh cable tray



FT A2

Maximum load-bearing capacity and versatility

The C mesh cable tray system from OBO Bettermann can fulfil the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. With a side height of 50 mm and optimised accessories such as clamping pieces, barrier strips or installation profiles, the system is the perfect complement to OBO's complete mesh cable tray portfolio. It is used both in industry and in all other areas of professional electrical installations.





Tested quality

The in-house BET Test Centre continually monitors and tests the quality of OBO products. Here, OBO simulates the loads that the mesh cable tray systems have to withstand on a constant basis. We determine the maximum load capacity and carrying capacity of the

system, as well as its resistance to corrosion. We are able to prove standardised testing of EMC properties using test reports. In other words, OBO places paramount importance on safety.

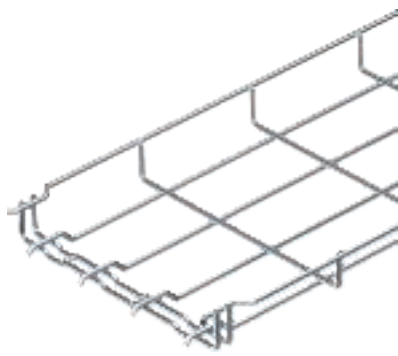


The KTS testing system was specially constructed for the testing of OBO Bettermann cable support systems. Thanks to its continuous further development and adaptation to the latest requirements, it

can offer comprehensive testing options. For example, the tests required by DIN EN 61537 can be carried out. These prove the safe working load (SWL) and therefore the reliable load-bearing capacity

of the systems. Tested quality without compromise – made by OBO.

GR-Magic® mesh cable tray



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 35 50 G	50	3.9	3	45.300	6000060
GRM 35 100 G	100	3.9	3	49.000	6000062
GRM 35 150 G	150	3.9	3	63.100	6000063
GRM 35 200 G	200	3.9	3	76.800	6000064
GRM 35 300 G	300	4.8	3	159.100	6000066
GRM 35 50 FT	50	3.9	3	45.610	6000069
GRM 35 100 FT	100	3.9	3	50.400	6000071
GRM 35 150 FT	150	3.9	3	64.500	6000072
GRM 35 200 FT	200	3.9	3	78.600	6000073
GRM 35 300 FT	300	4.8	3	162.700	6000075

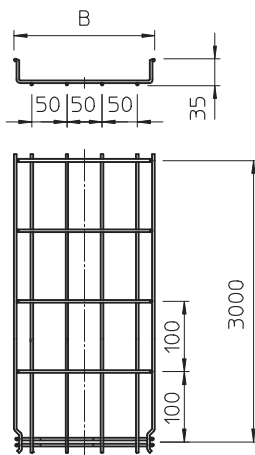
St Steel

G Electrogalvanised FT Hot-dip galvanised

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).

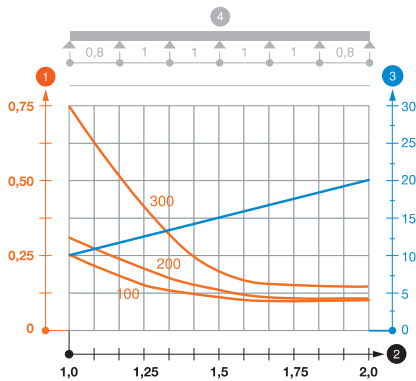
Mesh cable tray with shaped connector of side height 35 mm.

Dimensions



Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross- section cm ²
GRM 35 50 G	3000	50	3.9	17.5
GRM 35 100 G	3000	100	3.9	35
GRM 35 150 G	3000	150	3.9	52.5
GRM 35 200 G	3000	200	3.9	70
GRM 35 300 G	3000	300	4.8	105

Load



Type	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

GR-Magic® mesh cable tray

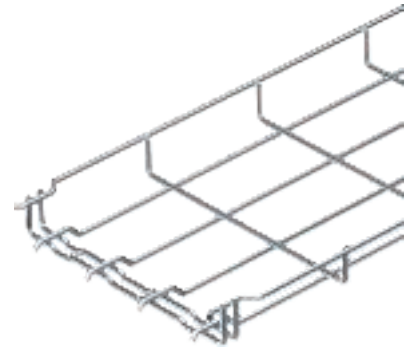


Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 35 50VA4301	50	3.9	3	45.000	6000054
GRM 35 100VA4301	100	3.9	3	49.000	6000055
GRM 35 150VA4301	150	3.9	3	62.600	6000056
GRM 35 200VA4301	200	3.9	3	76.300	6000057
GRM 35 300VA4301	300	4.8	3	157.900	6000059
GRM 35 50VA4401	50	3.9	3	44.620	6000086
GRM 35 100VA4401	100	3.9	3	49.000	6000087
GRM 35 150VA4401	150	3.9	3	62.600	6000089
GRM 35 200VA4401	200	3.9	3	76.300	6000090
GRM 35 300VA4401	300	4.8	3	157.900	6000091

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

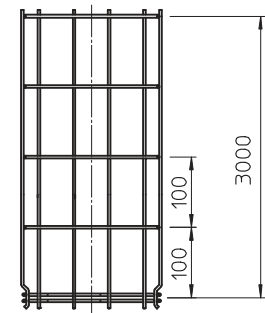
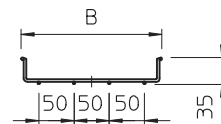
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.



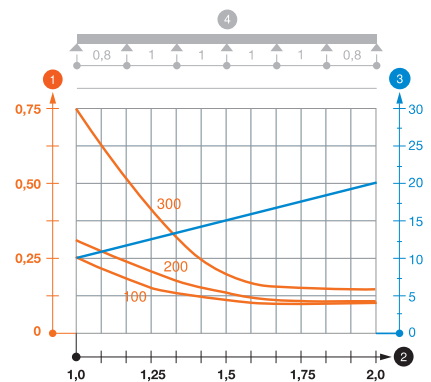
Type	Length mm	Dim. B mm	Useful
			cross-section cm²
GRM 35 50VA4301	3000	50	17.5
GRM 35 100VA4301	3000	100	35
GRM 35 150VA4301	3000	150	52.5
GRM 35 200VA4301	3000	200	70
GRM 35 300VA4301	3000	300	105

Dimensions



Type	1.0 m	1.5 m	2.0 m
	kN/m	kN/m	kN/m
GRM 35 50VA4301	0.25	0.11	0.1
GRM 35 100VA4301	0.25	0.11	0.1
GRM 35 150VA4301	0.25	0.11	0.1
GRM 35 200VA4301	0.3	0.14	0.1
GRM 35 300VA4301	0.75	0.22	0.15

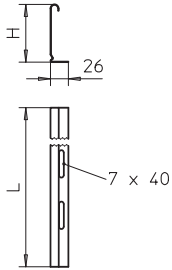
Load



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

Barrier strip

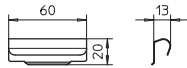


Type	Dim. Plate		Dim. L	Pack. m	Weight kg/100 m	Item No.
	H mm	thickness mm				
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314
TSG 30 VA4301	30	0.75	3000	3	37.670	6062052
TSG 30 VA4571	30	0.75	3000	3	38.670	6062054

St Steel **V2A** Stainless steel, grade 304 **V4A** Stainless steel, grade 316 Ti
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, Double Dip

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

Barrier strip connector

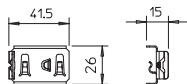


Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening

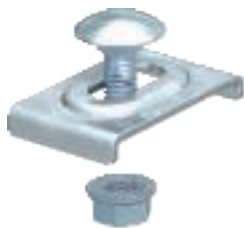


Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301

Hold-down clamp for fastening barrier strips in mesh cable trays.

Hold-down clamp for barrier strip fastening

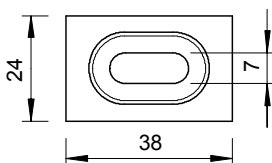


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 FT	20	2.400	6017061
GKT 38 VA4301	20	2.200	6017045
GKT 38 VA4401	10	2.200	6017092

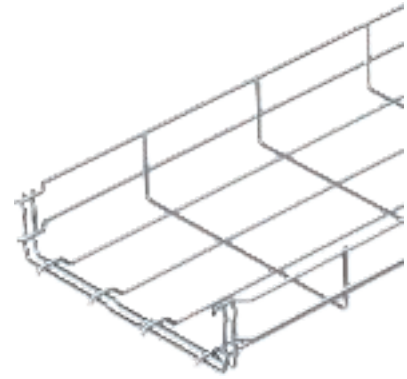
St Steel **V2A** Stainless steel, grade 304 **V4A** Stainless steel, grade 316
G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



GR-Magic® mesh cable tray



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 55 150 F	150	3.9	3	85.700	6001044
GRM 55 200 F	200	3.9	3	99.000	6001047
GRM 55 300 F	300	4.8	3	191.100	6001050
GRM 55 400 F	400	4.8	3	234.600	6001053
GRM 55 500 F	500	4.8	3	276.400	6001056
GRM 55 600 F	600	4.8	3	318.400	6001059
GRM 55 50 G	50	3.9	3	67.000	6001441
GRM 55 100 G	100	3.9	3	72.400	6001442
GRM 55 150 G	150	3.9	3	85.700	6001444
GRM 55 200 G	200	3.9	3	100.667	6001446
GRM 55 200 4.8 G	200	4.8	3	151.000	6001447
GRM 55 300 G	300	4.8	3	194.900	6001448
GRM 55 400 G	400	4.8	3	236.700	6001450
GRM 55 450 G	450	4.8	3	238.000	6001451
GRM 55 500 G	500	4.8	3	279.000	6001452
GRM 55 600 G	600	4.8	3	321.200	6001454

St Steel

F Hot-dip galvanised G Electrogalvanised

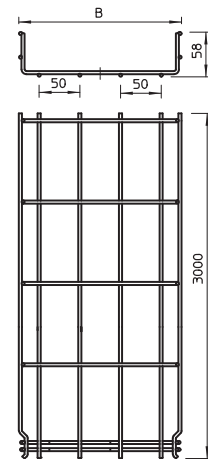
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

Description, surface F = pre-galvanised wires according to DIN EN 10244/2 (surface approx. 10 µm).

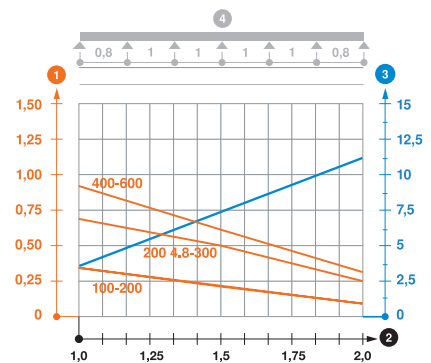
Mesh cable tray with shaped connector of side height 55 mm.

Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross- section cm ²
GRM 55 150 F	3000	150	3.9	63
GRM 55 200 F	3000	200	3.9	87
GRM 55 300 F	3000	300	4.8	129
GRM 55 400 F	3000	400	4.8	175
GRM 55 500 F	3000	500	4.8	220
GRM 55 600 F	3000	600	4.8	265

Dimensions



Load

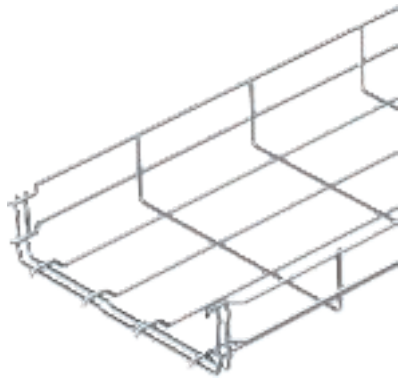


Type	1.0 m	1.5 m	2.0 m	2.5 m
	kN/m	kN/m	kN/m	kN/m
GRM 55 100 F	0.35	0.2	0.1	0.1
GRM 55 150 F	0.35	0.2	0.1	0.1
GRM 55 200 F	0.35	0.2	0.1	0.1
GRM 55 300 F	0.7	0.5	0.25	0.2
GRM 55 400 F	0.9	0.6	0.3	0.25
GRM 55 500 F	0.9	0.6	0.3	0.25
GRM 55 600 F	0.9	0.6	0.3	0.25

Load diagram, GR-Magic® mesh cable tray, type GRM 55

- 1 Permitted cable/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

GR-Magic® mesh cable tray



Type	Wire		Pack. m	Weight kg/100 m	Item No.
	Width mm	Ø mm			
GRM 55 50 FT	50	3.9	3	66.470	6001415
GRM 55 100 FT	100	3.9	3	75.667	6001416
GRM 55 150 FT	150	3.9	3	90.000	6001418
GRM 55 200 FT	200	3.9	3	104.667	6001420
GRM 55 200 4.8FT	200	4.8	3	154.300	6001421
GRM 55 300 FT	300	4.8	3	198.800	6001424
GRM 55 400 FT	400	4.8	3	244.300	6001428
GRM 55 500 FT	500	4.8	3	287.700	6001432
GRM 55 600 FT	600	4.8	3	331.600	6001436

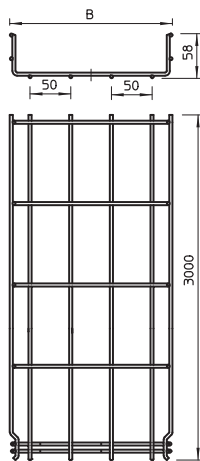
St Steel

FT Hot-dip galvanised

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).

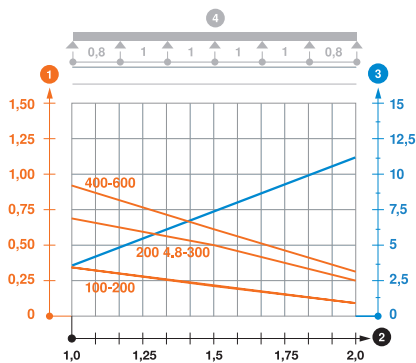
Mesh cable tray with shaped connector of side height 55 mm.

Dimensions



Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross-section cm ²
GRM 55 50 FT	3000	50	3.9	16
GRM 55 100 FT	3000	100	3.9	40
GRM 55 150 FT	3000	150	3.9	63
GRM 55 200 FT	3000	200	3.9	87
GRM 55 200 4.8FT	3000	200	4.8	87
GRM 55 300 FT	3000	300	4.8	129
GRM 55 400 FT	3000	400	4.8	175
GRM 55 500 FT	3000	500	4.8	220
GRM 55 600 FT	3000	600	4.8	265

Load

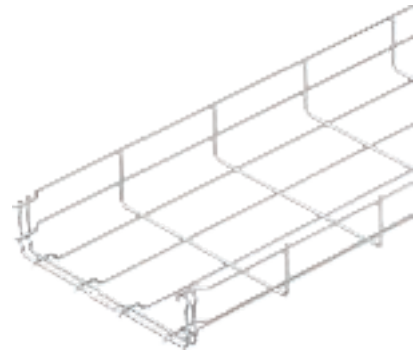


Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 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

GR-Magic® mesh cable tray



Type	Width mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 55 50VA4301	50	3.9	3	67.000	6001070
GRM 55 100VA4301	100	3.9	3	72.666	6001072
GRM 55 150VA4301	150	3.9	3	88.000	6001074
GRM 55 200VA4301	200	3.9	3	99.000	6001076
GRM 55 300VA4301	300	4.8	3	191.100	6001078
GRM 55 400VA4301	400	4.8	3	243.000	6001080
GRM 55 500VA4301	500	4.8	3	287.000	6001082
GRM 55 600VA4301	600	4.8	3	331.000	6001085
GRM 55 50VA4401	50	3.9	3	67.000	6001087
GRM 55 100VA4401	100	3.9	3	72.666	6001088
GRM 55 150VA4401	150	3.9	3	88.000	6001090
GRM 55 200VA4401	200	3.9	3	99.000	6001091
GRM 55 300VA4401	300	4.8	3	191.100	6001093
GRM 55 400VA4401	400	4.8	3	243.000	6001095
GRM 55 500VA4401	500	4.8	3	287.000	6001097
GRM 55 600VA4401	600	4.8	3	331.000	6001099

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

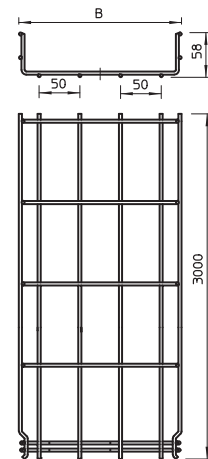
GB Stained

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).

Mesh cable tray with shaped connector of side height 55 mm.

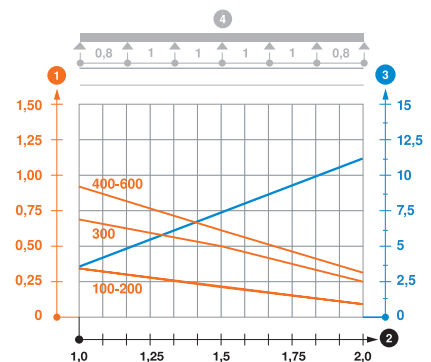
Type	Length mm	Dim. B mm	Useful cross- section cm ²
GRM 55 50VA4301	3000	50	16
GRM 55 100VA4301	3000	100	40
GRM 55 150VA4301	3000	150	63
GRM 55 200VA4301	3000	200	87
GRM 55 300VA4301	3000	300	129
GRM 55 400VA4301	3000	400	175
GRM 55 500VA4301	3000	500	220
GRM 55 600VA4301	3000	600	265

Dimensions



Load

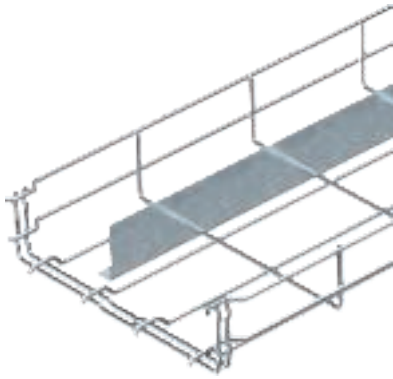
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50VA4301	0.35	0.2	0.1	0.1
GRM 55 100VA4301	0.35	0.2	0.1	0.1
GRM 55 150VA4301	0.35	0.2	0.1	0.1
GRM 55 200VA4301	0.35	0.2	0.1	0.1
GRM 55 300VA4301	0.7	0.5	0.25	0.2
GRM 55 400VA4301	0.9	0.6	0.3	0.25
GRM 55 500VA4301	0.9	0.6	0.3	0.25
GRM 55 600VA4301	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

GR-Magic® mesh cable tray with barrier strip



Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM-T 55 100 G	3000	3.9	3	116.500	6006453
GRM-T 55 200 G	3000	3.9	3	144.100	6006455
GRM-T 55 300 G	3000	4.8	3	238.600	6006456
GRM-T 55 400 G	3000	4.8	3	280.800	6006457
GRM-T 55 500 G	3000	4.8	3	323.100	6006458

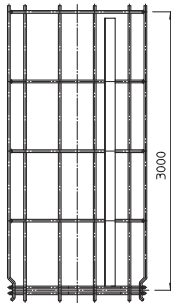
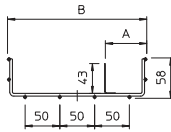
St Steel

G Electrogalvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

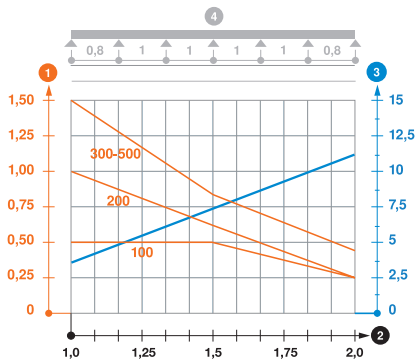
Mesh cable tray with shaped connector and welded barrier strips of side height 55 mm.

Dimensions



Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross- section cm ²
GRM-T 55 100 G	3000	100	3.9	40
GRM-T 55 200 G	3000	200	3.9	87
GRM-T 55 300 G	3000	300	4.8	129
GRM-T 55 400 G	3000	400	4.8	175
GRM-T 55 500 G	3000	500	4.8	220

Load



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM-T 55 100 G	0.5	0.5	0.25
GRM-T 55 200 G	1	0.6	0.25
GRM-T 55 300 G	1.5	0.8	0.4
GRM-T 55 400 G	1.5	0.8	0.4
GRM-T 55 500 G	1.5	0.8	0.4

Load diagram, GR-Magic® mesh cable tray, type GRM-1T 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

GR-Magic® mesh cable tray with barrier strip

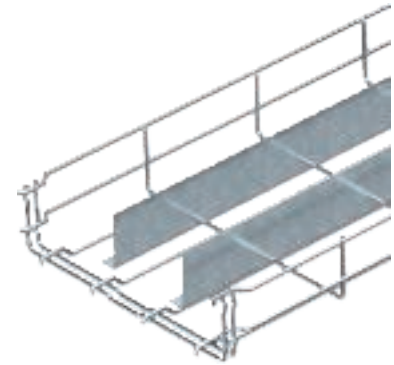
Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM-2T 55 200 G	3000	3.9	3	188.200	6006395
GRM-2T 55 300 G	3000	4.8	3	282.700	6006396
GRM-2T 55 400 G	3000	4.8	3	336.700	6006397
GRM-2T 55 500 G	3000	4.8	3	367.200	6006468

St Steel

G Electrogalvanised

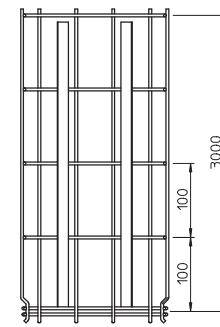
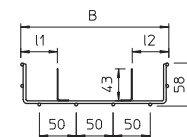
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector and two welded barrier strips of side height 55 mm.



Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross- section cm ²
GRM-2T 55 200 G	3000	200	3.9	87
GRM-2T 55 300 G	3000	300	4.8	129
GRM-2T 55 400 G	3000	400	4.8	175
GRM-2T 55 500 G	3000	500	4.8	220

Dimensions

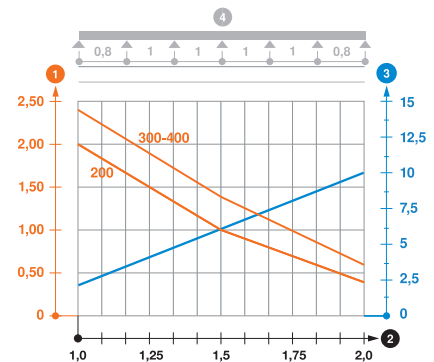


Load

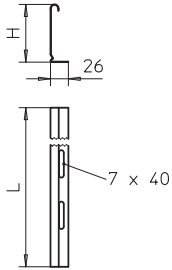
Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM-2T 55 200 G	2	1	0.4
GRM-2T 55 300 G	2.3	1.4	0.6
GRM-2T 55 400 G	2.3	1.4	0.6
GRM-2T 55 500 G	1.5	0.8	0.55

Load diagram, GR-Magic® mesh cable tray, type GRM-2T 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



Barrier strip

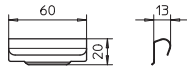


Type	Dim. Plate		Dim. L	Pack. m	Weight kg/100 m	Item No.
	H mm	thickness mm				
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.800	6062321
TSG 45 VA4301	45	0.75	3000	3	47.000	6062025
TSG 45 VA4571	45	0.75	3000	3	48.000	6062028

St Steel **V2A** Stainless steel, grade 304 **V4A** Stainless steel, grade 316 Ti
FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, Double Dip

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

Barrier strip connector

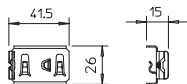


Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

Hold-down clamp for barrier strip fastening

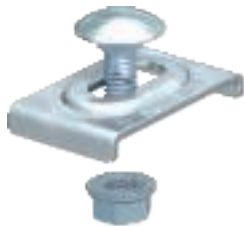


Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301

Hold-down clamp for fastening barrier strips in mesh cable trays.

Hold-down clamp for barrier strip fastening

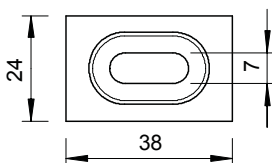


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 FT	20	2.400	6017061
GKT 38 VA4301	20	2.200	6017045
GKT 38 VA4401	10	2.200	6017092

St Steel **V2A** Stainless steel, grade 304 **V4A** Stainless steel, grade 316
G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



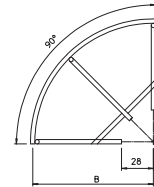
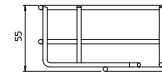
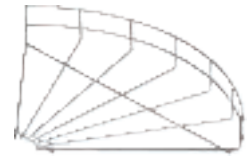
90° mesh cable tray bend

Type	Width mm	Wire Ø mm	Pack. Weight		Item No.
			pcs	kg/100 pcs.	
GRB 90 510 G	100	3.9	1	7.000	6001920
GRB 90 515 G	150	3.9	1	14.400	6001998
GRB 90 520 G	200	3.9	1	18.400	6001939
GRB 90 530 G	300	4.4	1	41.700	6001947
GRB 90 540 G	400	4.8	1	65.500	6001955
GRB 90 550 G	500	4.8	1	94.800	6001963
GRB 90 560 G	600	4.8	1	113.300	6001971
GRB 90 510 FT	100	3.9	1	7.500	6002218
GRB 90 515 FT	150	3.9	1	15.100	6002222
GRB 90 520 FT	200	3.9	1	19.300	6002226
GRB 90 530 FT	300	4.4	1	43.500	6002234
GRB 90 540 FT	400	4.8	1	68.000	6002242
GRB 90 550 FT	500	4.8	1	98.400	6002250
GRB 90 560 FT	600	4.8	1	113.700	6002269

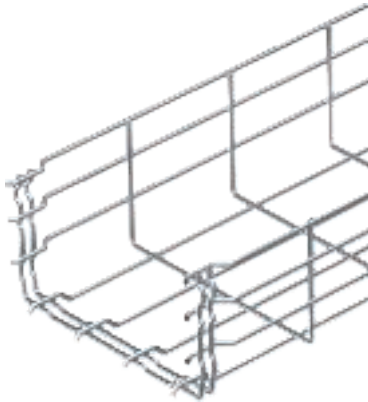
St. Steel

G Electrogalvanised FT Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 55 mm side height.



GR-Magic® mesh cable tray



Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GRM 105 100 G	3000	3.9	3	99.340	6002402
GRM 105 150 G	3000	3.9	3	110.600	6002404
GRM 105 200 G	3000	4.8	3	192.340	6002406
GRM 105 300 G	3000	4.8	3	236.700	6002408
GRM 105 400 G	3000	4.8	3	278.000	6002410
GRM 105 450 G	3000	4.8	3	300.000	6002413
GRM 105 500 G	3000	4.8	3	319.000	6002415
GRM 105 600 G	3000	4.8	3	363.300	6002417
GRM 105 100 FT	3000	3.9	3	103.700	6002431
GRM 105 150 FT	3000	3.9	3	116.000	6002433
GRM 105 200 FT	3000	4.8	3	200.700	6002435
GRM 105 300 FT	3000	4.8	3	244.000	6002437
GRM 105 400 FT	3000	4.8	3	287.700	6002439
GRM 105 450 FT	3000	4.8	3	309.700	6002441
GRM 105 500 FT	3000	4.8	3	333.000	6002443
GRM 105 600 FT	3000	4.8	3	375.000	6002445

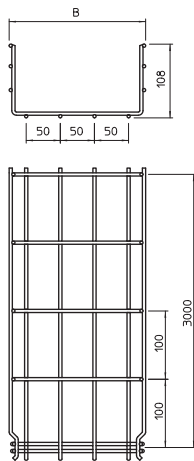
St Steel

G Electrogalvanised FT Hot-dip galvanised

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

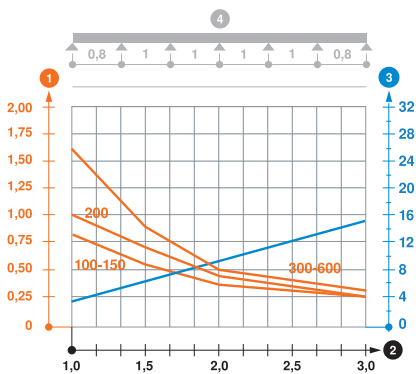
Mesh cable tray with shaped connector of side height 105 mm.

Dimensions



Type	Length mm	Dim. B mm	Wire Ø mm	Useful cross- section cm ²
GRM 105 100 G	3000	100	3.9	82
GRM 105 150 G	3000	150	3.9	130
GRM 105 200 G	3000	200	4.8	175
GRM 105 300 G	3000	300	4.8	268
GRM 105 400 G	3000	400	4.8	363
GRM 105 450 G	3000	450	4.8	411
GRM 105 500 G	3000	500	4.8	459
GRM 105 600 G	3000	600	4.8	554

Load

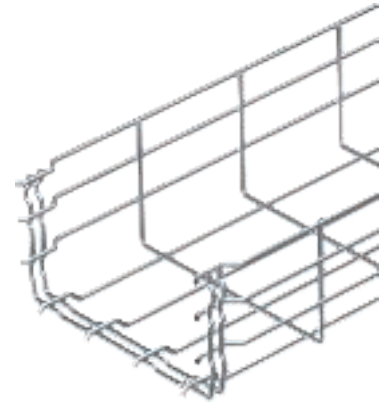


Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 450 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3

Load 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

GR-Magic® mesh cable tray



Type	Wire		Pack.	Weight	Item No.
	Width	Ø			
	mm	mm	m	kg/100 m	
GRM105 100VA4301	100	3.9	3	99.000	6002451
GRM105 150VA4301	150	3.9	3	111.670	6002455
GRM105 200VA4301	200	4.8	3	200.670	6002457
GRM105 300VA4301	300	4.8	3	235.000	6002460
GRM105 400VA4301	400	4.8	3	277.000	6002463
GRM105 500VA4301	500	4.8	3	319.000	6002466
GRM105 600VA4301	600	4.8	3	363.340	6002469
GRM105 100VA4401	100	3.9	3	99.000	6002475
GRM105 150VA4401	150	3.9	3	109.130	6002476
GRM105 200VA4401	200	4.8	3	192.340	6002477
GRM105 300VA4401	300	4.8	3	235.000	6002479
GRM105 400VA4401	400	4.8	3	277.000	6002481
GRM105 500VA4401	500	4.8	3	319.000	6002483
GRM105 600VA4401	600	4.8	3	363.340	6002485

V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

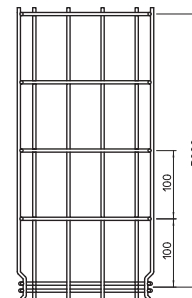
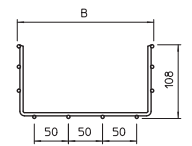
GB Stained

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

Mesh cable tray with shaped connector of side height 105 mm.

Type	Length	Dim. B	Useful Dim. cross-section
GRM105 100VA4301	3000	100	82
GRM105 150VA4301	3000	150	130
GRM105 200VA4301	3000	200	175
GRM105 300VA4301	3000	300	268
GRM105 400VA4301	3000	400	363
GRM105 500VA4301	3000	500	459
GRM105 600VA4301	3000	600	554

Dimensions

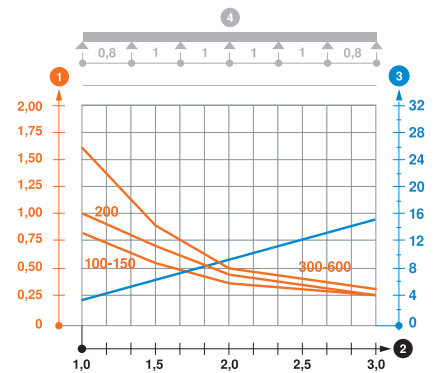


Type	1.0 m	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m	kN/m
GRM105 100VA4301	0.8	0.55	0.37	0.25
GRM105 150VA4301	0.8	0.55	0.37	0.25
GRM105 200VA4301	0.8	0.55	0.37	0.25
GRM105 300VA4301	1.1	0.75	0.53	0.3
GRM105 400VA4301	1.1	0.75	0.53	0.3
GRM105 500VA4301	1.25	0.85	0.6	0.3
GRM105 600VA4301	1.25	0.85	0.6	0.3

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

Load

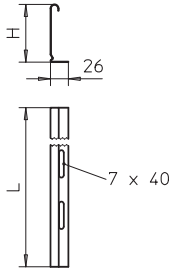


Barrier strip

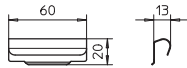


Type	Dim. Plate		Dim. L	Pack. m	Weight kg/100 m	Item No.
	H mm	thickness mm				
TSG 85 FS	85	0.75	3000	3	70.300	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331
TSG 85 VA4301	85	0.75	3000	3	69.670	6062173

St Steel V2A Stainless steel, grade 304
FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip
 Barrier strip for separation of cables of different voltages or functions.



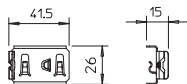
Barrier strip connector



Type	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301
 Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

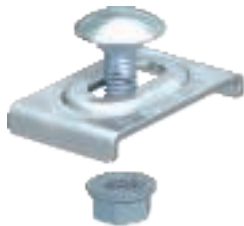
Hold-down clamp for barrier strip fastening



Type	Pack. pcs	Weight kg/100 pcs.	Item No.

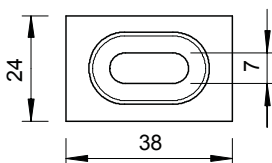
V2A Stainless steel, grade 301
 Hold-down clamp for fastening barrier strips in mesh cable trays.

Hold-down clamp for barrier strip fastening



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 FT	20	2.400	6017061
GKT 38 VA4301	20	2.200	6017045
GKT 38 VA4401	10	2.200	6017092

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316
G Electrogalvanised FT Hot-dip galvanised
 Including FRS M6 x 20 bolt with flange nut.
 Clamp for fastening barrier strip in mesh cable trays.



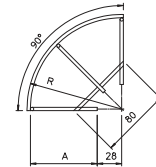
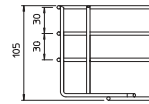
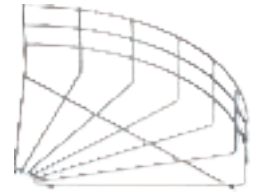
90° mesh cable tray bend

Type	Width mm	Wire Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRB 90 110 G	100	3.9	1	9.500	6002370
GRB 90 115 G	150	3.9	1	18.000	6002372
GRB 90 120 G	200	4.4	1	30.400	6002374
GRB 90 130 G	300	4.8	1	61.000	6002376
GRB 90 140 G	400	4.8	1	77.000	6002378
GRB 90 145 G	450	4.8	1	100.000	6002380
GRB 90 150 G	500	4.8	1	114.000	6002382
GRB 90 160 G	600	4.8	1	134.000	6002384
GRB 90 110 FT	100	3.9	1	10.000	6002307
GRB 90 115 FT	150	3.9	1	19.000	6002311
GRB 90 120 FT	200	4.4	1	36.000	6002315
GRB 90 130 FT	300	4.8	1	62.000	6002323
GRB 90 140 FT	400	4.8	1	81.900	6002331
GRB 90 145 FT	450	4.8	1	102.000	6002335
GRB 90 150 FT	500	4.8	1	113.000	6002358
GRB 90 160 FT	600	4.8	1	133.000	6002366

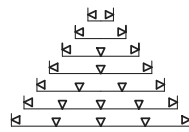
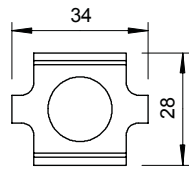
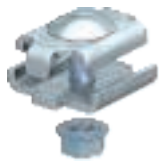
St Steel

G Electrogalvanised **FT** Hot-dip galvanised

90° bend, horizontal, for all mesh cable trays of 105 mm side height.



Joint connector



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 G	20	3.000	6016596
GSV 34 FT	20	3.000	6016634
GSV 34 VA4301	20	3.000	6016642
GSV 34 VA4401	20	3.000	6016648

St Steel **V2A** Stainless steel, grade 304 **V4A** Stainless steel, grade 316

G Electrogalvanised **FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Screwed version of joint connector for mesh cable trays.

Figure: Positioning and quantity of mesh cable tray connectors.

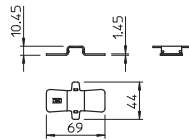
50-150 mm = 2 units

200-300 mm = 3 units

400-450 mm = 4 units

500-600 mm = 5 units

Quick connector



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GRS 3.9 DD	50	2.500	6016545
GRS 4.8 DD	50	2.500	6016561

St Steel

DD Strip galvanised zinc/aluminium, Double Dip

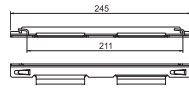
When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.

Quick connector for screwless straight connection of mesh cable trays without special tools, for mesh cable trays up to a width of 150 mm.

Figure: Positioning and quantity of mesh cable tray connectors.

50-150 mm = 2 units

Mesh cable tray connector, long



Type

Type	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GRV 245 FS	245	20	13.500	6016680
GRV 245 DD	245	20	13.500	6016684
GRV 245 VA4404	245	20	13.500	6016688

St Steel **V4A** Stainless steel, grade 316 L

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, Double Dip

Two straight connectors, type GRV 245, are used for each connection point.

Can be used from a mesh cable tray width of 100 mm.

Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Side connector



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K 11 262 FT	25	7.500	6015107
K 11 262 VA4301	25	7.500	6016367

St Steel **V2A** Stainless steel, grade 304

FT Hot-dip galvanised

Including screw of type FRS M6 x 20.

Screwed version of joint connector for mesh cable trays.

Corner connector

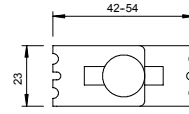
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GEV 36 G	20	3.000	6016715
GEV 36 FT	20	3.000	6016723
GEV 36 VA4301	20	3.000	6016731
GEV 36 VA4401	10	3.000	6016764

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 12 bolt with flange nut

Corner connector for the creation of mesh cable tray bend elements.



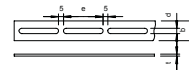
Slotted steel strap

Type	Dimension mm	Hole size mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5050 20X3 FT	20 x 3	6,5 x 40	270	20	9.450	1466500
5050 20X3 1M FT	20 x 3	6,5 x 40	1000	20	35.000	1466504

St Steel

FT Hot-dip galvanised

Perforated slotted steel strap in strips.



Slotted steel strap, bent

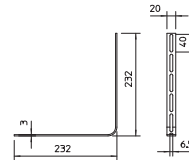
Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
5050 20X3 FT	20x3	25	15.800	6017371

St Steel

FT Hot-dip galvanised

Set includes four clamps, type GKS 34.

Bent slotted steel strap for creation of bends and tees.



Hold-down clamp

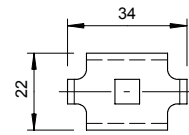
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 G	20	2.000	6016855
GKS 34 FT	20	2.000	6016820
GKS 34 VA4301	20	2.000	6016839
GKS 34 VA4401	10	2.000	6016859

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

G Electrogalvanised FT Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fixing mesh cable trays to wall or support brackets.



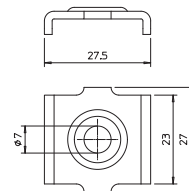
Hold-down clamp

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKB 34 G	20	1.000	6016674
GKB 34 VA4301	20	1.000	6016676

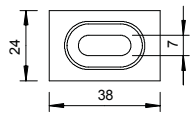
St Steel V2A Stainless steel, grade 304

G Electrogalvanised

Clamp for fastening mesh cable trays of width 50 mm to the floor.



Hold-down clamp



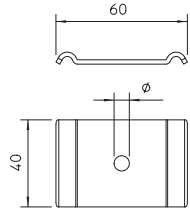
Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKB 38 G	20	1.200	6017020
GKB 38 VA4301	20	1.200	6017018

- St** Steel **V2A** Stainless steel, grade 304
- G** Electrogalvanised

Hold-down clamp for floor fastening of mesh cable trays.

Hold-down clamp

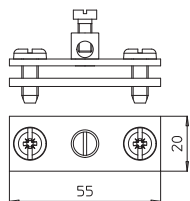


Type	Hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 50 07 FS	7	50	4.000	6015263
GKS 50 11 FS	11	50	4.000	6015276
GKS 50 07 FT	7	50	4.100	6015271
GKS 50 11 FT	11	50	4.100	6015278
GKS 50 07 V4A	7	50	4.000	6015310
GKS 50 11 V4A	11	20	4.000	6015280

- St** Steel **V4A** Stainless steel, grade 316 L
- FS** Strip-galvanised **FT** Hot-dip galvanised

Clamp for fastening mesh cable trays.

Earthing clip

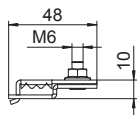


Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
939	150	25	5.932	5043107

- St** Steel
- G** Electrogalvanised

- 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

Connection and earthing terminal



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VEK-GRM 3.9 FS	25	3.850	6016694
VEK-GRM 4.8 FS	25	3.800	6016696

- St** Steel
- FS** Strip-galvanised

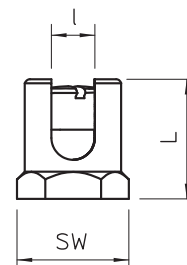
The connection and earthing terminal is used to reduce electrical resistance and therefore improves the electric conductivity in mesh cable systems in the area of the joint allowing to fulfil the high demands in terms of the transition resistance according to e.g. NEMA and CSA. Furthermore, the connection and earthing terminal is compulsory when used as a protective conductor in a mesh cable tray system (Note: National regulations have to be followed when creating such a system).

Earthing screw

Type	Dim.	Dim.	Cross-	SW	Accessories	Pack.	Weight		Item No.
	L	l	section				pcs	kg/100 pcs.	
EKL 25 M6	22	8	25	18	M6	—	50	3.100	6404006
EKL 35 M6	26	10	35	21	M6	—	50	4.800	6404014

CuZn Brass

Earthing terminal for fastening the equipotential bonding wire to the cable support system.



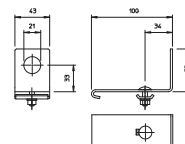
Side holder for cable gland

Type	Hole	Pack.	Weight		Item No.
	Ø		pcs	kg/100 pcs.	
SH KAB 20 FS	20	10	15.000	6015425	
SH KAB 25 FS	25	10	14.700	6015433	

St Steel

FS Strip-galvanised

Conduit take off bracket with perforation for accepting cable glands.



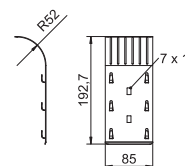
Drop-out plate

Type	Pack.	Weight		Item No.
		pcs	kg/100 pcs.	
KAB GR FS	10	14.100	6220139	
KAB GR FT	10	14.100	6220142	
KAB GR VA 1.4301	10	14.100	6220145	

St Steel **V2A** Stainless steel, grade 304

FS Strip-galvanised **FT** Hot-dip galvanised

The drop-out plate allows compliance with specific bend radii (fibre-optic cables), thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.



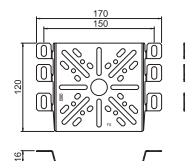
Mounting plate

Type	Height	Width	Pack.	Weight		Item No.
	mm	mm		pcs	kg/100 pcs.	
MP UNI FS	115	170	40	13.300	7084773	
MP UNI DD	115	170	40	11.000	7085114	
MP UNI VA4301	115	170	40	11.000	7085133	

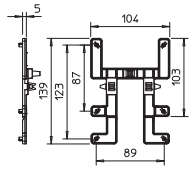
St Steel **V2A** Stainless steel, grade 304

FS Strip-galvanised **DD** Strip galvanised zinc/aluminium, Double Dip

Mounting plate, for fastening on the side rail of cable support systems.



Fastening element for mesh cable tray



Type

BE TS GR

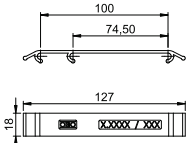
PC Polycarbonate

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to all standard mesh cable trays in a few actions, quickly and without tools. This is all done without using tools.

This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

Type	Pack. Weight		Item No.
	pcs	kg/100 pcs.	
BE TS GR	10	2.300	2007833

Identification clip



Type

Colour

Weight kg/100 pcs.

Pack. pcs

Item No.

KS GR OR	KS GR ZGB	KS GR LBL	KS GR SGN
Pastel orange	Zinc yellow	Light blue	Signal green
0.920	0.742	0.920	0.920
10	10	10	10
6017712	6017713	6017714	6017715

PA Polyamide

The identification clip is fastened to the mesh cable tray without screws simply by attaching it.

Bolt cutter

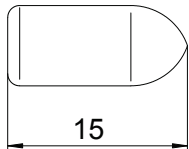


Type	Length mm	Pack. Weight		Item No.
		pcs	kg/100 pcs.	
GR BS	450	1	160.000	6017700

St Steel

Bolt cutter for cutting mesh cable trays.

End cap



Type	Colour	Pack. Weight		Item No.
		pcs	kg/100 pcs.	
GR KS 3.9 OR	Pure orange	500	0.025	6003750
GR KS 4.8 OR	Pure orange	500	0.030	6003754

PVC Polyvinylchloride

End cap to cover cut wire ends of mesh cable trays.

Cover, unperforated

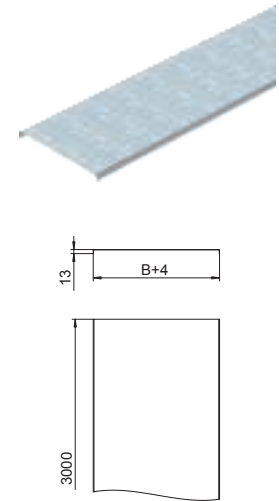
Type	Plate			Pack. m	Weight kg/100 m	Item No.
	Width mm	thickness mm	Length mm			
DRLU 050 FS	50	0.75	3000	3	44.700	6052056
DRLU 100 FS	100	0.75	3000	3	98.670	6052103
DRLU 150 FS	150	0.75	3000	3	138.000	6052153
DRLU 200 FS	200	1.00	3000	3	177.670	6052210
DRLU 300 FS	300	1.00	3000	3	255.670	6052307
DRLU 400 FS	400	1.00	3000	3	334.670	6052405
DRLU 500 FS	500	1.25	3000	3	619.500	6052512
DRLU 600 FS	600	1.25	3000	3	737.340	6052609
DRLU 050 DD	50	0.75	3000	3	59.670	6052640
DRLU 100 DD	100	0.75	3000	3	89.000	6052643
DRLU 150 DD	150	0.75	3000	3	138.340	6052647
DRLU 200 DD	200	1.00	3000	3	177.670	6052650
DRLU 300 DD	300	1.00	3000	3	256.000	6052656
DRLU 400 DD	400	1.00	3000	3	334.470	6052662
DRLU 500 DD	500	1.25	3000	3	619.340	6052668
DRLU 600 DD	600	1.25	3000	3	737.270	6052674
DRLU 050 VA4301	50	1.00	3000	3	59.670	6052821
DRLU 100 VA4301	100	1.00	3000	3	99.000	6052824
DRLU 150 VA4301	150	1.00	3000	3	138.000	6052828
DRLU 200 VA4301	200	1.00	3000	3	177.670	6052831
DRLU 300 VA4301	300	1.00	3000	3	256.000	6052834
DRLU 400 VA4301	400	1.00	3000	3	334.670	6052837
DRLU 500 VA4301	500	1.25	3000	3	516.000	6052841
DRLU 600 VA4301	600	1.25	3000	3	737.270	6052844
DRLU 050 VA4571	50	1.00	3000	3	59.670	6052978
DRLU 100 VA4571	100	1.00	3000	3	99.000	6052991
DRLU 150 VA4571	150	1.00	3000	3	138.000	6052992
DRLU 200 VA4571	200	1.00	3000	3	177.670	6052993
DRLU 300 VA4571	300	1.00	3000	3	256.000	6052994
DRLU 400 VA4571	400	1.00	3000	3	334.670	6052995
DRLU 500 VA4571	500	1.25	3000	3	619.500	6052996
DRLU 600 VA4571	600	1.25	3000	3	737.270	6052998

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti
 FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Transverse bead from 500 mm width.

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.



Cover clamp, universal

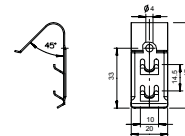
Type	Pack. pcs	Weight		Item No.
		kg/100	pcs.	
DKU VA4310	20	0.800		6065600

V2A Stainless steel, grade 301

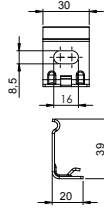
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ channels.

The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.



Wall mounting for type GRM 35x50

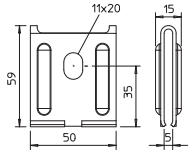


Type	Side height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
WH GRM35 FT	35	50	10	1.950	6016443
WH GRM35 VA4401	35	50	10	1.950	6016445

St Steel **V4A** Stainless steel, grade 316
FT Hot-dip galvanised

Wall mounting for wall fastening of mesh cable trays, type GRM 35x50

Wall clamp/central hanger



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
K 12 1818 FS	25	7.600	6437109
K12 1818 VA4301	25	7.600	6016421

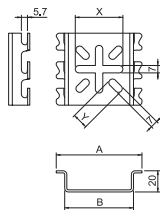
St Steel **V2A** Stainless steel, grade 304
FS Strip-galvanised

Recommendation:

As wall mounting up to max. mesh cable tray width 200 mm.
 As centre suspension up to max. mesh cable tray width 200 mm.

As a trapeze suspension from a width of 300 mm.
 Wall clamp and central hanger for mesh cable trays.

Mounting plate



Type	Dim. A mm	Dim. B mm	Dimen- sion x mm	Dimen- sion y mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MPG 65 FT	81	65	45	15	30	9.200	6006486
MPG 90 FT	111	95	45	38	30	16.800	6006487
MPG 65 VA4404	81	65	45	15	30	8.800	6006488
MPG 90 VA4404	111	95	45	38	30	16.100	6006489

St Steel **V4A** Stainless steel, grade 316 L
FT Hot-dip galvanised

Mounting plate for screwless wall fastening of mesh cable trays.

TP support / wall and support bracket

Type	For width F in kN		Pack. pcs	Weight kg/100 pcs.	Item No.
	mm	kN			
TPSAG 145 FS	100	1.5	50	33.000	6366015
TPSAG 195 FS	150	1	20	41.000	6366023
TPSAG 245 FS	200	0.9	20	48.000	6366031
TPSAG 345 FS	300	0.55	20	61.000	6366066
TPSAG 145 FT	100	1.5	50	33.000	6366131
TPSAG 195 FT	150	1	20	42.000	6366135
TPSAG 245 FT	200	0.9	20	49.000	6366139
TPSAG 345 FT	300	0.55	20	65.000	6366143
TPSAG 145 VA4301	100	1.5	50	32.000	6366145
TPSAG 195 VA4301	150	1	20	40.000	6366146
TPSAG 245 VA4301	200	0.9	20	47.000	6366148
TPSAG 345 VA4301	300	0.55	20	61.000	6366149

St Steel V2A Stainless steel, grade 304

FS Strip-galvanised FT Hot-dip galvanised

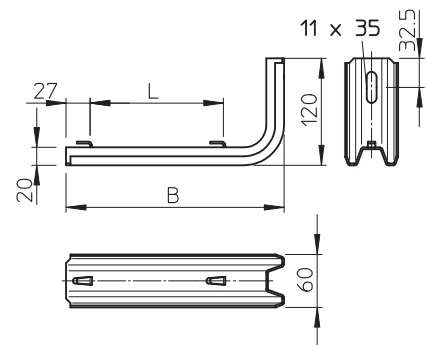
If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

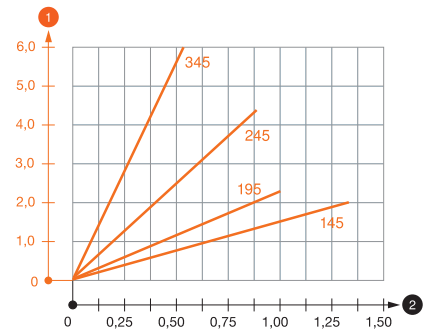
Type	Dim. mm	
	B	L
TPSAG 145 FS	145	50
TPSAG 195 FS	195	100
TPSAG 245 FS	245	150
TPSAG 345 FS	345	250



Dimensions



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

Anchor type	Wall fastening			
	Max. load F [kN]			
	Bracket width [mm]			
	145	195	245	345
BZ-U 8-30-41/95	1.00	0.80	0.70	0.50
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).

Wall and support bracket MWAG 12



Type	Width F in kN		Pack. pcs	Weight kg/100 pcs.	Item No.
	mm	kN			
MWAG 12 11 FS	110	1.2	30	12.700	6424600
MWAG 12 21 FS	210	1.2	30	24.400	6424608
MWAG 12 31 FS	310	1.2	30	50.300	6424616
MWAG 12 41 FS	410	1.2	25	68.000	6424624

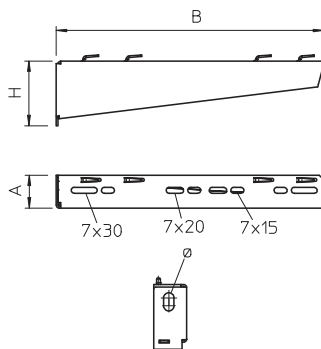
SI Steel

FS Strip-galvanised

Including truss-head bolt M10 x 25 for fastening to U supports.

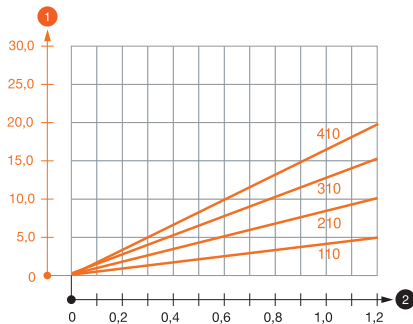
Light-duty wall and support bracket for screwless mesh cable tray fastening.

Dimensions



Type	Dim. B	Dim. A	Dim. H	Hole Ø
	mm	mm	mm	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



Load diagram, bracket type MWAG 12

- 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 wall and support bracket MWAG 12

Anchor type	Max. load F [kN]			
	Bracket width [mm]			
	110	210	310	410
BZ-U 8-10-21/75	1,20	0,95	0,70	0,65
BZ-U 10-10-30/90	1,20	1,20	1,20	1,20

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 values for MWAG 12 on suspended support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1,20	1,20	1,20	1,20
US 3 K/ 70 - 120	1,20	1,20	1,20	1,20
US 5 K/ 20 - 60	1,20	1,20	1,20	1,20
US 5 K/ 70 - 120	1,20	1,20	1,20	1,20

Wall and support bracket AWG 15

Type	Width mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AW G 15 11 FT	110	1.5	30	14.000	6420606
AW G 15 16 FT	160	1.5	30	20.000	6420607
AW G 15 21 FT	210	1.5	30	26.000	6420608
AW G 15 31 FT	310	1.5	30	35.000	6420610
AW G 15 41 FT	410	1.5	30	56.000	6420612
AW G 15 51 FT	510	1.5	20	69.000	6420614
AW G 15 61 FT	610	1.5	20	84.000	6420616
AWG 15 11 VA4301	110	1.5	30	13.000	6420625
AWG 15 21 VA4301	210	1.5	30	25.000	6420628
AWG 15 31 VA4301	310	1.5	30	33.000	6420631
AWG 15 41 VA4301	410	1.5	30	53.000	6420634
AWG 15 51 VA4301	510	1.5	20	65.000	6420637
AWG 15 61 VA4301	610	1.5	20	80.000	6420640
AWG 15 11 VA4571	110	1.5	30	13.000	6420642
AWG 15 21 VA4571	210	1.5	30	25.000	6420644
AWG 15 31 VA4571	310	1.5	30	33.000	6420646
AWG 15 41 VA4571	410	1.5	30	53.000	6420648
AWG 15 51 VA4571	510	1.5	20	65.000	6420650
AWG 15 61 VA4571	610	1.5	20	80.000	6420652

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti

GB Stained FT Hot-dip galvanised

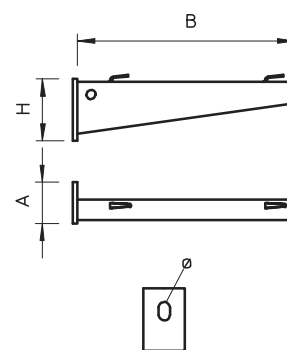
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

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
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

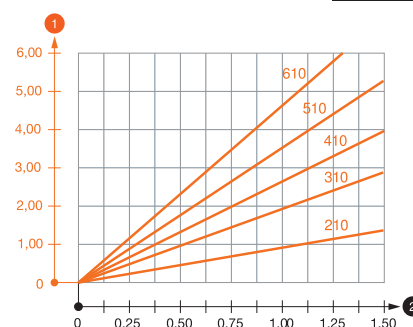
Dimensions



Load diagram, bracket type AW G 15

- Bending of the bracket tip at permitted bracket load
 - Permitted bracket load in kN without man load
- Load curve with bracket lengths in mm

Load



Characteristic anchor load values for wall and support bracket AW G 15

Anchor type	Wall fastening									
	Max. load F [kN]									
	Bracket width [mm]									
BZ-U 8-10-21/75	110	160	210	310	410	510	560	610	610	610
	1.10	0.90	0.80	0.65	0.55	0.50	0.45	0.45	0.45	0.45
BZ-U 10-10-30/90	1.50	1.50	1.40	1.10	0.95	0.85	0.80	0.80	0.80	0.80

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).

Support	Max. total load F in kN				
	Bracket length in mm				
	100	200	300	400	500
US 3 K/ 20 - 60	1,50	1,50	1,30	1,30	1,30
US 3 K/ 70 - 120	1,50	1,50	1,30	1,30	1,30
US 5 K/ 20 - 60	1,50	1,50	1,50	1,50	1,50
US 5 K/ 70 - 120	1,50	1,50	1,40	1,40	1,50

Threaded rod



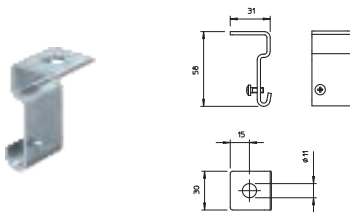
Type	Thread	Dim. d mm	Dim. L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M6 1M G	M6	6	1000	10	18.300	3141047
2078 M8 1M G	M8	8	1000	10	30.000	3141128
2078 M10 1M G	M10	10	1000	10	49.000	3141209
2078 M12 1M G	M12	12	1000	10	62.000	3141306
2078 M6 2M G	M6	6	2000	10	36.600	3141048
2078 M8 2M G	M8	8	2000	10	60.000	3141136
2078 M10 2M G	M10	10	2000	10	98.000	3141140
2078 M12 2M G	M12	12	2000	10	140.000	3141144
2078 M6 1M V2A	M6	6	1000	10	18.300	3141327
2078 M8 1M V2A	M8	8	1000	10	30.000	3141310
2078 M10 1M V2A	M10	10	1000	10	49.000	3141312
2078 M12 1M V2A	M12	12	1000	10	70.000	3141314
2078 M6 2M V2A	M6	6	2000	10	36.600	3141328
2078 M8 2M V2A	M8	8	2000	10	60.000	3141330
2078 M10 2M V2A	M10	10	2000	10	98.000	3141339
2078 M12 2M V2A	M12	12	2000	10	140.000	3141316
2078 M6 1M V4A	M6	6	1000	50	18.300	3141482
2078 M8 1M V4A	M8	8	1000	50	30.000	3141492
2078 M10 1M V4A	M10	10	1000	25	49.000	3141502
2078 M12 1M V4A	M12	12	1000	20	70.000	3141512
2078 M6 2M V4A	M6	6	2000	25	36.600	3141484
2078 M8 2M V4A	M8	8	2000	25	60.000	3141494
2078 M10 2M V4A	M10	10	2000	20	98.000	3141504
2078 M12 2M V4A	M12	12	2000	10	140.000	3141514

Si Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti

G Electrogalvanised

Threaded rod to DIN 976.

Side holder



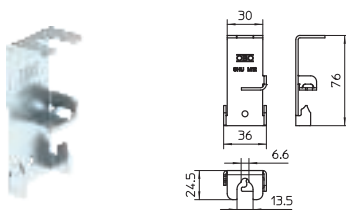
Type	For threaded rod	Pack. pcs	Weight kg/100 pcs.	Item No.
SH M10 FS	M10	50	5.800	6015336
SH M10 FT	M10	50	6.000	6015338
SH M10 A4	M10	20	5.500	6015340

Si Steel V4A Stainless steel, grade 316

FS Strip-galvanised FT Hot-dip galvanised

Side holder for suspension of mesh cable trays.

Side holder, universal



Type	Pack. pcs	Weight kg/100 pcs.	Item No.
SHU M12 FS	50	5.100	6015322
SHU M12 DD	50	5.100	6015324
SHU M12 VA4301	50	5.100	6015326
SHU M12 VA4571	50	5.100	6015328

Si Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316 Ti

FS Strip-galvanised DD Strip galvanised zinc/aluminium, Double Dip

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.

Centre suspension

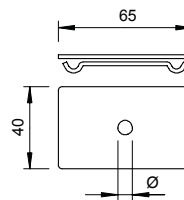
Type	Hole Ø mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GMA M6 FS	7	25	8.000	6015220
GMA M8 FS	9	25	8.300	6015239
GMA M10 FS	11	25	8.300	6015247
GMA M6 FT	7	25	8.400	6015224
GMA M8 FT	9	25	8.300	6015243
GMA M10 FT	11	25	8.400	6015255
GMA M6 VA4401	7	25	8.400	6015228
GMA M8 VA4401	9	25	8.300	6015245
GMA M10 VA4401	11	25	8.300	6015261

St Steel V4A Stainless steel, grade 316

FS Strip-galvanised FT Hot-dip galvanised

When filling with cables, please ensure an even distribution. The maximum recommended mesh cable tray width is 200 mm.

Two-part centre suspension of mesh cable trays.



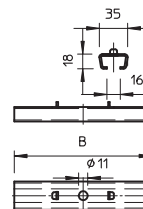
Centre suspension

Type	Dim. B mm	Pack. pcs	Weight kg/100 pcs.	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
GMS 570 FS	570	10	67.000	6015408
GMS 170 VA4404	170	25	20.000	6015418
GMS 270 VA4404	270	25	32.000	6015419
GMS 370 VA4404	370	25	43.000	6015420
GMS 470 VA4404	470	10	55.000	6015421
GMS 570 VA4404	570	10	67.000	6015422

St Steel V4A Stainless steel, grade 316 L

FS Strip-galvanised

Centre suspension including hold-down clamp for mesh cable tray suspensions.

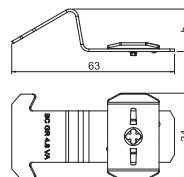


Hold-down clip

Type	Dim. b mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
BC GR 4.8 VA	17	For wire thicknesses 3.9 and 4.8 mm	20	1.760	6016665

V2A Stainless steel, grade 301

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.



TP wall and ceiling bracket



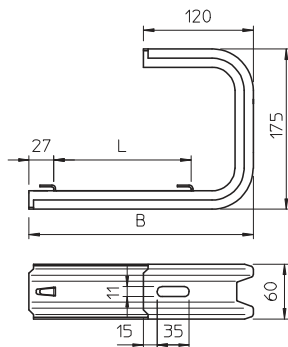
Type	For width mm	F in kN	F in kN		Pack. pcs	Weight kg/100 pcs.	Item No.
			ceiling	Wall			
TPDG 145 FS	100	1.3	1.4	1.4	6	53.000	6365906
TPDG 195 FS	150	0.95	1.05	1.05	6	91.100	6365914
TPDG 245 FS	200	0.8	0.87	0.87	5	68.000	6365922
TPDG 345 FS	300	0.5	0.55	0.55	5	81.000	6365949
TPDG 145 FT	100	1.3	1.4	1.4	6	56.000	6365977
TPDG 245 FT	200	0.8	0.87	0.87	5	71.000	6365981
TPDG 345 FT	300	0.5	0.55	0.55	5	86.000	6365985
TPDG 145 VA4301	100	1.3	1.4	1.4	6	53.000	6365989
TPDG 195 VA4301	150	0.95	1.05	1.05	6	91.100	6365991
TPDG 245 VA4301	200	0.8	0.87	0.87	5	67.000	6365993
TPDG 345 VA4301	300	0.5	0.55	0.55	5	81.000	6365995

Si Steel V2A Stainless steel, grade 304
FS Strip-galvanised FT Hot-dip galvanised

Important! If the 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.

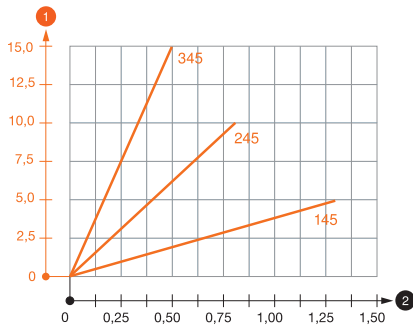
TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Dimensions



Type	Dim.	
	B mm	L mm
TPDG 145 FS	145	110
TPDG 195 FS	195	160
TPDG 245 FS	245	210
TPDG 345 FS	345	310

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

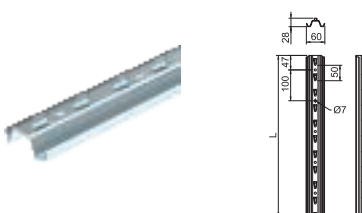
Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening						
F	Anchor type	Max. load F [kN]				
		Bracket length [mm]				
		145	245	345	445	545
	BZ-U 8-30-41/95	1,00	0,70	0,50	0,40	0,30
	BZ-U 10-30-50/110	1,50	0,90	0,55	0,45	0,35

Ceiling fastening						
F	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.

TP profile



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TPSG 3000 FT	3000	1	461.000	6366093

Si Steel
FS Strip-galvanised FT Hot-dip galvanised

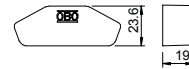
TP profile with clamping lugs.

End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
TPS KS OR	Pastel orange	10	0.569	6364625

PE Polyethylene

End cap to cover ends of TP supports.



Spacer

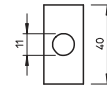
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
DS 4 FS	20	3.700	6416551
DS 4 FT	20	3.800	6416586
DS 4 VA4301	10	3.700	6416594

St Steel V2A Stainless steel, grade 304

FS Strip-galvanised FT Hot-dip galvanised

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.



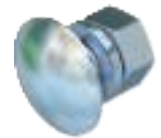
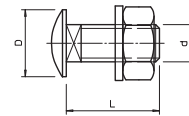
Truss-head bolt

Type	Dimension mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FRS 10x25 TPS F	M 10 x 25	50	4.300	6407536
FRS 10x25 TPS A2	M 10 x 25	50	4.000	6407537

St Steel V2A Stainless steel, A2

F Hot-dip galvanised

Truss-head bolt with square neck. With washer and hexagonal nut.



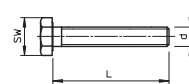
Hexagonal bolt

Type	Dimension mm	Dim.			Pack. pcs	Weight kg/100 pcs.	Item No.
		L	d	SW			
SKS 10x60 F	M 10 x 60	60	10	17	20	6.000	6408516

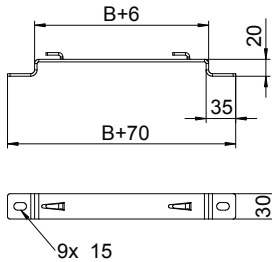
St Steel

F Hot-dip galvanised

Hexagonal bolt for universal fixing of structure components.



Stand-off bracket



Type	Dim. B mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DBLG 20 050 FS	50	20	10.300	6015646
DBLG 20 100 FS	100	20	13.800	6015654
DBLG 20 150 FS	150	20	17.400	6015658
DBLG 20 200 FS	200	20	20.900	6015662
DBLG 20 300 FS	300	20	37.300	6015670
DBLG 20 400 FS	400	20	46.700	6015689
DBLG 20 500 FS	500	25	56.900	6015693
DBLG 20 600 FS	600	25	66.400	6015697
DBLG 20 050 FT	50	20	10.700	6015648
DBLG 20 100 FT	100	20	14.300	6015656
DBLG 20 150 FT	150	20	18.100	6015660
DBLG 20 200 FT	200	20	21.700	6015664
DBLG 20 300 FT	300	20	38.800	6015672
DBLG 20 400 FT	400	20	48.600	6015691
DBLG 20 500 FT	500	25	59.200	6015695
DBLG 20 600 FT	600	25	69.100	6015699

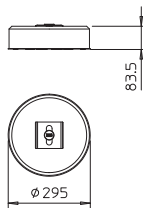
SI Steel

FS Strip-galvanised FT Hot-dip galvanised

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.

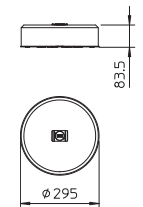
Tray fastening system set 10 kg with TrayFix large



Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-L	100	1	1,100.000	5403101

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 10 kg

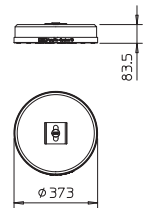
Tray fastening system set 10 kg with TrayFix small



Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-10-S	100	1	1,000.000	5403102

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 10 kg

Tray fastening system set 16 kg with TrayFix large



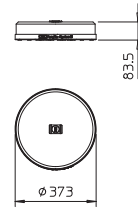
Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-L	100	1	1,700.000	5403098

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO cable tray systems MKSM, SKSM and IKSM
- Adapted to OBO mesh cable tray systems with a minimum width of 100 mm
- Set consisting of TrayFix mounting adapter and concrete block including base for FangFix-System 16 kg

Tray fastening system set 16 kg with TrayFix small

Type	From tray width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TrayFix-16-S	100	1	1,700.000	5403099

- Mounting system for the fastening of mesh cable trays and cable trays on FangFix stone e.g. cable routing on a flat roof.
- Adapted to OBO mesh cable systems with a minimum width of 100 mm
- Set consisting of clamping piece, fastening plug and concrete block including base for FangFix-System 16 kg

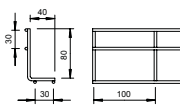


Type	Length mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
GW 40 80 FT	2000	4.4	50	63.000	6003818

St Steel

FT Hot-dip galvanised

Mesh angle for routing cables in steel girders.



Beam clamp

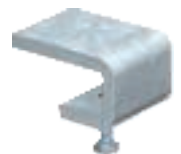
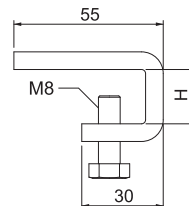
Type	Height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
KL 20 FT	20	10	22.000	6003850
KL 30 FT	30	10	24.000	6003869

St Steel

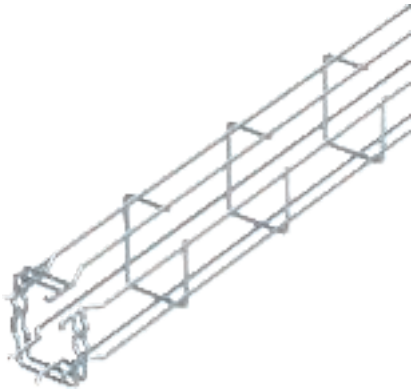
FT Hot-dip galvanised

When selecting the beam clamp, please take the flange thickness of the steel girder into account.

Beam clamp for fastening the mesh angle, type GW 40/80 to steel girders.



G mesh cable tray Magic, side height 50 mm

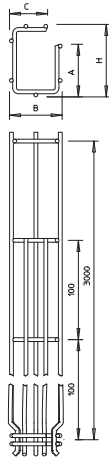


Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 50 50 G	50	3.9	3	67.100	6005535
G-GRM 50 50 FT	50	3.9	3	68.600	6005520
G-GRM 50 50V2A	50	3.9	3	67.100	6005550
G-GRM 50 50V4A	50	3.9	3	67.100	6005565

St Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316
G Electrogalvanised FT Hot-dip galvanised

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.

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm	Wire Ø mm
G-GRM 50 50 G	3000	55	55	33	40	3.9

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

Hook rail for G mesh cable tray



Type	Length mm	Width mm	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
G-GRM-R50 FS	50	25	15	25	2.300	6005605
G-GRM-R50VA4301	50	25	15	25	2.300	6005635

St Steel V2A Stainless steel, grade 304
FS Strip-galvanised

G mesh cable tray Magic, side height 75 mm

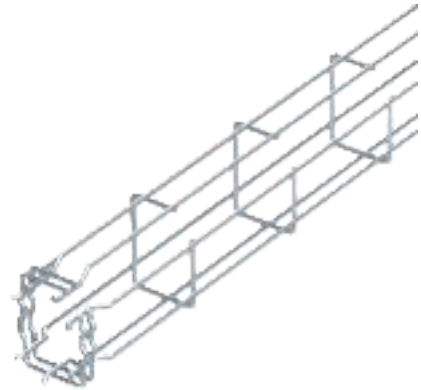
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 75 50 G	75	3.9	3	79.900	6005538
G-GRM 75 50 FT	75	3.9	3	81.700	6005523
G-GRM 75 50V2A	75	3.9	3	79.900	6005553
G-GRM 75 50V4A	75	3.9	3	79.900	6005568

Sl Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

G Electrogalvanised FT Hot-dip galvanised

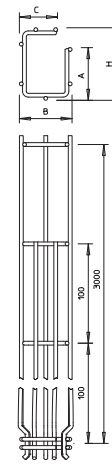
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm	Wire Ø mm
G-GRM 75 50 G	3000	53	73	40	53	3.9

Dimensions



Load

G-GRM 75/50

	Support spacing [m]			
	1	1.5	2	2.5
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

Hook rail for G mesh cable tray

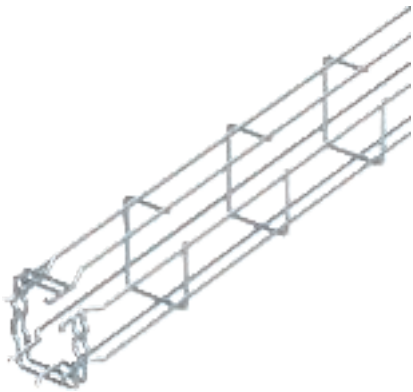
Type	Length mm	Width mm	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
G-GRM-R75 FS	55	25	15	25	2.400	6005607
G-GRM-R75VA4301	55	25	15	25	2.400	6005637

Sl Steel V2A Stainless steel, grade 304

FS Strip-galvanised



G mesh cable tray Magic, side height 125 mm



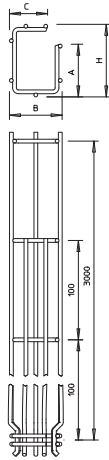
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 125 75 G	125	3.9	3	108.000	6005541
G-GRM 125 75 FT	125	3.9	3	113.670	6005526
G-GRM 125 75V2A	125	3.9	3	108.000	6005556
G-GRM 125 75V4A	125	3.9	3	108.000	6005571

Si Steel
 V2A Stainless steel, grade 304
 V4A Stainless steel, grade 316
G Electrogalvanised
 FT Hot-dip galvanised

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.

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm	Wire Ø mm
G-GRM 125 75 G	3000	75	125	40	96	3.9

Load

G-GRM 125/75

	Support spacing [m]			
	1	1.5	2	2.5
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

Hook rail for G mesh cable tray



Type	Length mm	Width mm	Side height mm	Pack. pcs	Weight kg/100 pcs	Item No.
G-GRM-R125 FS	105	25	15	25	4.600	6005612
G-GRM-R125VA4301	105	25	15	25	4.600	6005642

Si Steel
 V2A Stainless steel, grade 304
FS Strip-galvanised

G mesh cable tray Magic, side height 150 mm

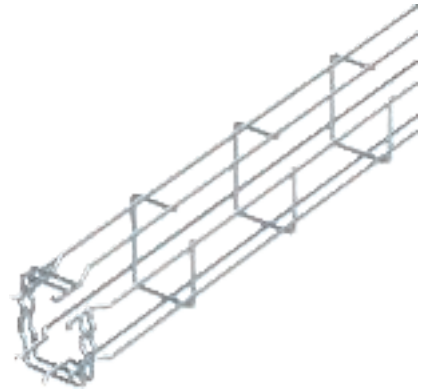
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
G-GRM 150 100 G	150	3.9	3	128.000	6005544
G-GRM 150 100 FT	150	3.9	3	130.900	6005529
G-GRM 150 100V2A	150	3.9	3	128.000	6005559
G-GRM 150 100V4A	150	3.9	3	128.000	6005574

Sl Steel V2A Stainless steel, grade 304 V4A Stainless steel, grade 316

G Electrogalvanised FT Hot-dip galvanised

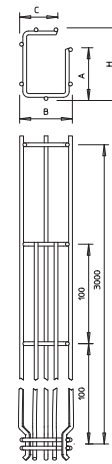
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths. Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm	Wire Ø mm
G-GRM 150 100 G	3000	100	155	70	120	3.9

Dimensions



Load

G-GRM 150/100

	Support spacing [m]			
	1	1.5	2	2.5
Fastening variant	Load [kN/m]			
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

Hook rail for G mesh cable tray

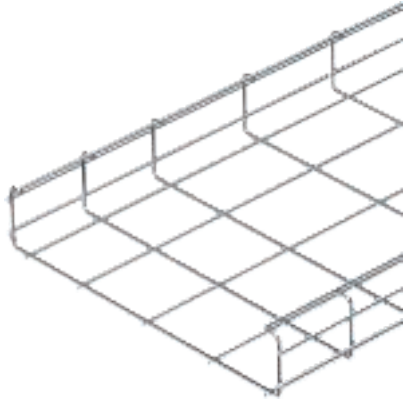
Type	Length mm	Width mm	Side height mm	Pack. pcs	Weight kg/100 pcs.	Item No.
G-GRM-R150 FS	110	25	15	25	4.800	6005615
G-GRM-R150VA4301	110	25	15	25	4.800	6005645

Sl Steel V2A Stainless steel, grade 304

FS Strip-galvanised



C mesh cable tray CGR



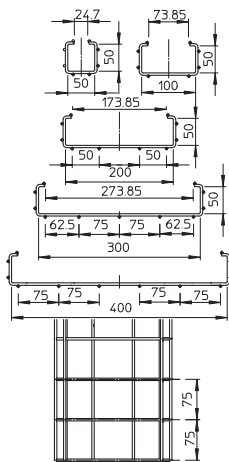
Type	Side height mm	Wire Ø mm	Pack. m	Weight kg/100 m	Item No.
CGR 50 50 FT	50	4.5	3	128.670	6017428
CGR 50 100 FT	50	4.5	3	136.667	6017436
CGR 50 200 FT	50	4.5	3	173.340	6017444
CGR 50 300 FT	50	4.5	3	204.340	6017452
CGR 50 400 FT	50	4.5	3	240.000	6017460
CGR 50 50 VA4301	50	4.5	3	124.670	6016200
CGR 50 100VA4301	50	4.5	3	131.667	6016235
CGR 50 200VA4301	50	4.5	3	169.000	6016251
CGR 50 300VA4301	50	4.5	3	195.340	6016253
CGR 50 400VA4301	50	4.5	3	222.334	6016255

SI Steel V2A Stainless steel, grade 304

GB Stained FT Hot-dip galvanised

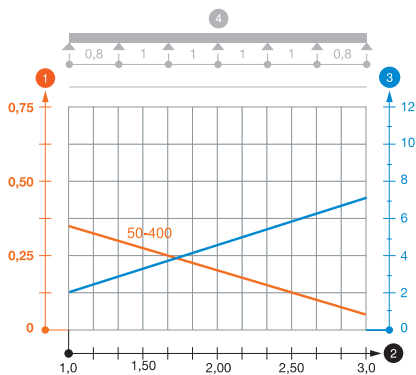
C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.

Dimensions



Type	Length mm	Width mm	Wire Ø mm	Useful wire cross-section cm ²
CGR 50 50 FT	3000	50	4.5	13
CGR 50 100 FT	3000	100	4.5	34
CGR 50 200 FT	3000	200	4.5	75
CGR 50 300 FT	3000	300	4.5	116
CGR 50 400 FT	3000	400	4.5	157

Load



Type	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 diagram, C mesh cable tray, type CGR 50

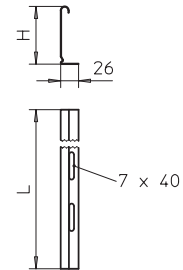
- 1 Permitted cable tray/ladder load in kN/m without man load
- 2 Support width in m
- 3 Rail bend in mm at permitted kN/m
- 4 Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

Barrier strip

Type	Dim. Plate		Dim. L	Pack. m	Weight kg/100 m	Item No.
	H mm	thickness mm				
TSG 30 DD	30	0.75	3000	3	38.000	6062314
TSG 30 VA4301	30	0.75	3000	3	37.670	6062052

- St** Steel **V2A** Stainless steel, grade 304
- DD** Strip galvanised zinc/aluminium, Double Dip

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

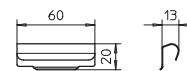


Barrier strip connector

Type	Pack. pcs	Weight kg/100 pcs.	Item No.

- V2A** Stainless steel, grade 301

Barrier strip connector for screwless connection of the TSG barrier strip in all side heights.

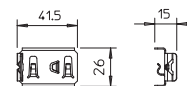


Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.

- V2A** Stainless steel, grade 301

Hold-down clamp for fastening barrier strips in mesh cable trays.



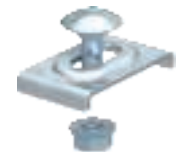
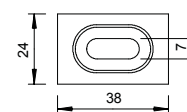
Hold-down clamp for barrier strip fastening

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKT 38 VA4301	20	2.200	6017045

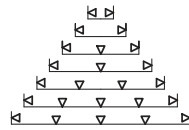
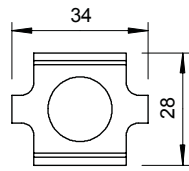
- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



Joint connector



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GSV 34 FT	20	3.000	6016634
GSV 34 VA4301	20	3.000	6016642

- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

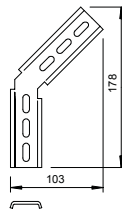
Including FRS M6 x 20 bolt with flange nut.

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

45° mounting angle



Type

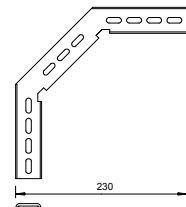
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 45 SL10 FT	20	21.000	6017320
MW 45 SL10VA4301	20	20.000	6017339

- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

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.

90° mounting angle



Type

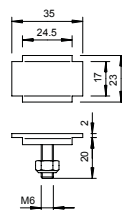
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
MW 90 SL17 FT	20	27.000	6017347
MW 90 SL23 FT	20	35.400	6017355
MW 90 SL17VA4301	20	27.000	6016278
MW 90 SL23VA4301	20	34.700	6016308

- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

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.

Hold-down clamp



Type

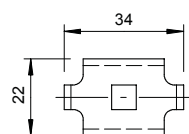
Type	Pack. pcs	Weight kg/100 pcs.	Item No.
KS 23 35 FT	100	2.015	6015174
KS 23 35 VA4301	20	2.015	6016529

- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

Including M6 locknut.

Clamp for mounting bracket, type MW 45 and MW 90.

Hold-down clamp



Type

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
GKS 34 FT	20	2.000	6016820
GKS 34 VA4301	20	2.000	6016839

- St** Steel **V2A** Stainless steel, grade 304
- FT** Hot-dip galvanised

Including FRS M6 x 20 bolt with flange nut.

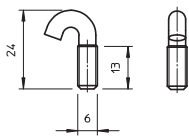
Clamp for fixing mesh cable trays to wall or support brackets.

C mesh cable tray

Type	Thread		Pack. pcs	Weight		Item No.
	d	h		kg/100 pcs.	pcs.	
HS M6x13 A2	M6		100	0.612		1154990

V2A Stainless steel, A2

Hook screw for fastening cable tracks on the bracket.

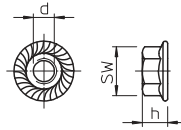


Flange nut

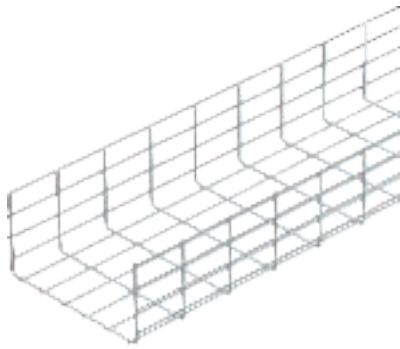
Type	Dim.		SW	Resistance class	Pack. pcs	Weight		Item No.
	d	h				kg/100 pcs.	pcs.	
KM M6 A2	6	6	10	A2-70	100	0.315		6408966

V2A Stainless steel, A2

Combination nut with washer based on EN 1661.



Mesh cable tray GR



Type	Length mm	Wire	Pack. m	Weight kg/100 m	Item No.
		Ø mm			
GR 155 300 G	3000	6	3	426.340	6003681
GR 155 450 G	3000	6	3	524.670	6003684
GR 155 500 G	3000	6	3	557.340	6003685
GR 155 600 G	3000	6	3	622.340	6003687

St Steel

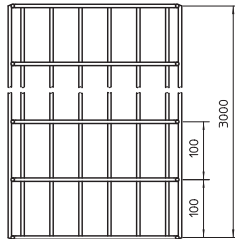
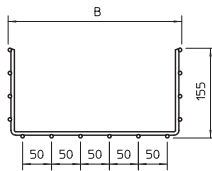
G Electrogalvanised

The grid width is 50 x 100 mm.

Mesh cable tray made of spot-welded steel wire of side height 155 mm.

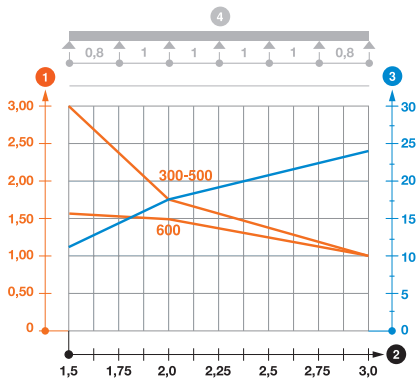
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

Dimensions



Type	Length mm	Dim. B mm	Wire	Useful
			Ø mm	cross-section cm ²
GR 155 300 G	3000	300	6	438
GR 155 450 G	3000	450	6	663
GR 155 500 G	3000	500	6	738
GR 155 600 G	3000	600	6	888

Load



Type	1.5 m	2.0 m	3.0 m
	kN/m	kN/m	kN/m
GR 155 300 G	3	1.8	1
GR 155 450 G	3	1.8	1
GR 155 500 G	3	1.8	1
GR 155 600 G	1.56	1.5	1

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

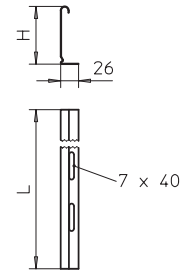
Barrier strip

Type	Dim. Plate		Dim. L	Pack. m	Weight kg/100 m	Item No.
	H mm	thickness mm				
TSG 135 FS	135	0.75	3000	3	100.000	6062132

St Steel

FS Strip-galvanised

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



Hold-down clamp

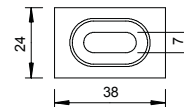
Type	Pack. pcs	Weight kg/100 pcs.	Item No.

St Steel

G Electrogalvanised

Including FRS M6 x 20 bolt with flange nut.

Clamp for fastening barrier strip in mesh cable trays.



Joint connector

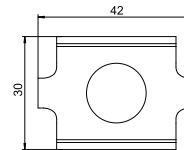
Type	Pack. pcs	Weight kg/100 pcs.	Item No.

St Steel

G Electrogalvanised

Including FRS M6 x 20 bolt with combination nut.

Screwed version of joint connector for mesh cable trays with 6.0 mm wire thickness.

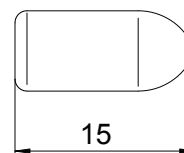


End cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.

PVC Polyvinylchloride

End cap to cover cut wire ends of mesh cable trays.

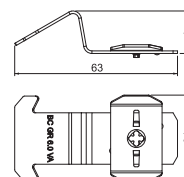


Hold-down clip

Type	Dim. b mm	Version	Pack. pcs	Weight kg/100 pcs.	Item No.

V2A Stainless steel, grade 301

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails.



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Building Connections

