

Knürr Cable Management



Knürr Cable Management Strong points



MEC20064

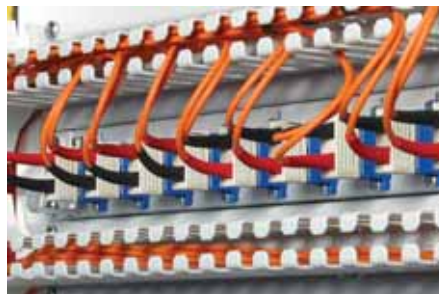
It must be ensured when laying cables that every kind of mechanical stress is avoided.



MEC20086



MEC20074



MEC20058



MEC20084



LIG00021

Bending load

The bending radii may never be less than the values provided by the cable manufacturer in the respective data sheets. At points that bend too much, the electrical properties of the cable change and reduce the transmission bandwidths and ranges.

If manufacturer specifications are not available, then the following rule of thumb applies: With loose cabling, at least 15 times the external cable diameter and with fixed cabling, at least 10 times the external cable diameter.

Buckling load

The most extreme bending loads can cause the cable to break.

Tensile load

This is only determined by the copper cross-section of the conductor, as all other materials are too soft. The cable may not be stressed more than 50N/mm²(Cu cross-section) as otherwise the conductors are stretched and the cross-section is reduced. If higher "pulling" forces are required, then cables with additional strain relief elements must be used.

Compressive stress

Compressive stress is caused by loads bearing down from above, fixed clamping or sharp cable kinking and must always be avoided, as otherwise the "loose" cable structure changes and the electrical transmission properties are impaired.

Torque strains (twisting)

These must never have an effect on the cable, as they drive the cable elements into one another and therefore impair the transmission properties.

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1 MEC20082

1 Different components for fiber-glass and copper cables, especially the fastening options using Velcro strips and cable bundling using different colored strips, guarantee transparent cable management, which is the optimum starting situation for an intelligent expansion of the network and for the highest standard of service convenience.

2 With all cable management components, special attention has been paid to ensuring that fixing is possible with Velcro strip cable ties. Velcro cable ties not only guarantee a stress-free fixing of the cables, they can also be released at any time and re-used again and again. Velcro cable ties are also extremely helpful for the installation engineer in providing pinch-free cable bundling – and also because they are so quick to apply.

3 Excess cable lengths are stored separate from the patch fields, but in a position that is always easy to access. Copper cable excess can be stored separate from fiber glass excess within the Knürr rack systems: the copper cables on the side and the more sensitive fiberglass cables in an excess drawer at the front.



2 MEC20070



3 MEC20099

4 Some true multi-talents appear on closer examination of the individual products. The cable routing multi-functional brace, for example, not only provides the option of routing cables horizontally and vertically using Velcro ties or cable ties, but rather also allows numerous components to be mounted with screws and caged nuts. These caged nuts can also be shifted with room for play in a slot, so that every mounting dimension can be accommodated.

5 The prescribed radii are preset with the radial limiter. These components ensure that neither a reduction of the transmission bandwidths and ranges nor a cable break occur.



3 MEC20079



4 MEC20077



4 MEC20091



5 MEC20071



MEC00110

19" Cable Routing Board, 1 U

- For orderly cable routing
- For safe and secure cable routing of copper and fiberglass cables

Material/Finish

Type 1:
Front panel, sheet steel, 1.5 mm
Powder-coated, RAL 7035, light gray
Type 2:
Front panel: sheet steel 1.0 mm, powder-coated, RAL 7035 light gray

Color

Final digit of order number .1:
RAL 7035 light gray
Final digit of order number .8:
RAL 7021 dark gray

External dimensions

Cable routing:
Type 1: 55 x 22 mm, plastic
Type 2: 95 x 32 mm, steel

Supply schedule

1 19" front panel
5 cable routers

How supplied

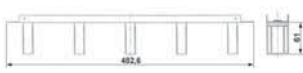
Preassembled

Note

Please also order front panel mounting material.



MEC20014



MEC20103



MEC20104

W	H	D	U	Model	Order no.	UP
483			1	Type 1	05.040.111.1	1 unit
483			1	Type 2	01.117.144.1	1 unit
483			1	Type 1	05.040.111.8	1 unit
483			1	Type 2	01.117.144.8	1 unit



MEC20041

19" Cable Routing Board, flexible, 1 U

- For orderly cable routing
- For safe and secure cable routing of copper and fiberglass cables

Material/Finish

Front panel, sheet steel, 1.5 mm
Powder-coated texture, RAL 7035
Jumpering bracket, round steel, d = 5 mm, zinc-passivated

Color

Final digit of order number .1:
RAL 7035 light gray
Final digit of order number .8:
RAL 7021 dark gray

External dimensions

Cable routers (a x b):
1 U: 82 x 43 mm
2 U: 102 x 82 mm

Supply schedule

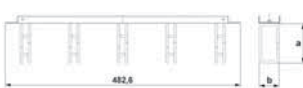
1 front panel
5" cable routing boards

How supplied

Preassembled

Note

Please also order front panel mounting material.



MEC20102



MEC20076

W	H	D	U	Model	Order no.	UP
483			1	Type 1	05.040.100.1	1 unit
483			2	Type 2	05.040.101.1	1 unit
483			1	Type 1	05.040.100.8	1 unit
483			2	Type 2	05.040.101.8	1 unit



MEC20081

Fiber optic cable routing panel 1 U

- For orderly cable routing
- For safe and secure cable routing of fiber optic cables
- Optionally with cover panels to protect the cables and as labeling option

Material/Finish

Sheet steel, 1.5 mm
Powder-coated texture, RAL 7035

Supply schedule

1 19" cable routing panel

How supplied

In units

Note

Please also order front panel mounting material and cover.
Not suitable for rack widths 600 mm and 700 mm (asymmetric)!



MEC20105



MEC20058

W	H	D	U	Model	Order no.	UP
483			1	Cable routing panel	05.040.050.1	1 unit
				Accessories: Cover	05.040.051.1	1 unit



CUD00021

19" Blanking Panel Cable Port, threaded connection

- For orderly cable management in the rack internal space
- With edge protector

Material

Sheet steel, 1.0 mm

Finish

Final digit of order number .1:
Powder-coated, RAL 7035, light gray
Final digit of order number .8:
Powder-coated texture, RAL 7021 dark gray

Supply schedule

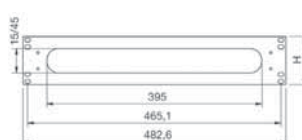
6 19" blanking panel cable ports

How supplied

Flat-packed kit

Note

Please also order front panel mounting material.



CUD00023



CUD00022

W	H	D	U	For rack type	Order no.	UP
483	44		1	Powder-coated	01.103.231.1	6 units
483	88		2	Powder-coated	01.103.232.1	3 units

Knürr Cable Management



MEC20091

Cable routing brace

- For mounting on the Miracel/Smaract basic rack and on the 19" extrusion
- For cable clamping using Velcro strips, cable ties
- For orderly cable management in the rack
- Two-sided installation
- For universal mounting option using caged nuts (all dimensions can be accommodated, as caged nuts are flexible)

Material

Sheet steel, 1.5 mm

Finish

Zinc-passivated

Supply schedule

4 cable routing braces
Mounting material

How supplied

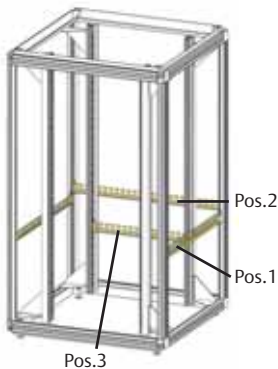
In units

Note

If required, please also order Velcro strip.

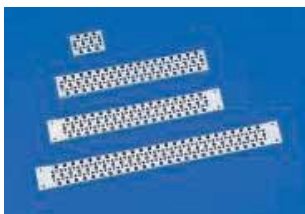


MEC20078



MIR88001

W _{Rack}	H _{Rack}	D _{Rack}	L	Model	for rack type	Order no.	UP
		600	455	Pos. 1	Miracel	05.040.200.9	4 units
		800	655	Pos. 1	Miracel	05.040.201.9	4 units
		900	755	Pos. 1	Miracel	05.040.202.9	4 units
		1000	855	Pos. 1	Miracel	05.040.203.9	4 units
600			534	Pos. 2	Miracel/Smaract	05.040.213.9	4 units
800			734	Pos. 2	Miracel	05.040.214.9	4 units
			468	Pos. 3	Miracel/Smaract/DPR	05.040.215.9	4 units
			1055	Pos. 1	Miracel	05.040.205.9	4 units



MIR00089

Multifunctional brace

- For routing cables with cable ties
- For universal mounting options
- Holes for mounting caged nuts
- Distance between two multifunctional braces can be variably selected using T-slot
- Installation on the extrusions of the rack frame or on the 19" extrusions, diagonal and lateral

Installation positions

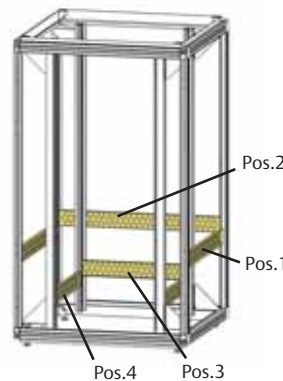
1 on the basic frame on the depth
2 on the basic frame on the width
3 on the 19" extrusions on the width
4 on the 19" extrusions on the depth

Material

Sheet steel, 1.5 mm

Finish

Zinc-passivated



MIR88003

Finish

Zinc-passivated

Supply schedule

4 multifunctional braces

How supplied

Flat-packed kit

W _{Rack}	D _{Rack}	d	Inst. position	for rack type	Order no.	UP
	600	1		Miracel	05.040.160.9	4 units
	800	1		Miracel	05.040.161.9	4 units
	900	1		Miracel	05.040.162.9	4 units
	1000	1		Miracel	05.040.163.9	4 units
	1100	1		Miracel	05.040.164.9	4 units
	1200	1		Miracel	05.040.165.9	4 units
600		2		Miracel/Smaract	05.040.173.9	4 units
700		2		Miracel		4 units
800		2		Miracel	05.040.174.9	4 units
		3		Miracel/Smaract/DPR	05.040.175.9	4 units
600	365	4		Miracel/Smaract	05.040.168.9	4 units
800	565	4		Miracel/Smaract	05.040.169.9	4 units
600	440	4		Miracel/Smaract	05.040.170.9	4 units
800	640	4		Miracel/Smaract	05.040.171.9	4 units
900	740	4		Miracel/Smaract	05.040.172.9	4 units
1000	740	4		Miracel/Smaract	05.040.172.9	4 units



MEC20045

Cascading

- For orderly cable management and cable clamping
- Can be expanded

Material/Finish

Base cover: Sheet steel, powder-coated texture
RAL 7035
Foam: Polyethylene, anthracite

Supply schedule

2 end plates with foam
3 plates with foam on both sides
Mounting material

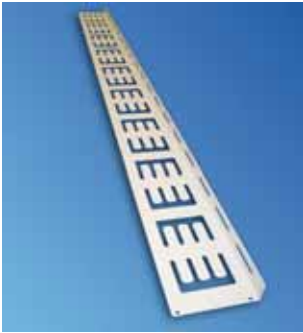
How supplied

Flat-packed kit



MEC20074

W	H	D	Order no.	UP
			05.040.088.9	1 set



MEC20088

Cable Tray

- For orderly cable management in the Miracel rack
- Cable fixing possible using Velcro strips or cable ties
- Combination possible as L, U or T unit

Material/Finish

Sheet steel 1.5 mm, zinc passivated, powder-coated

Color

.1: RAL 7035 light gray
.8: RAL 7021 dark gray

Dimensions

L 150 x W 28 mm

Supply schedule

1 cable tray
Mounting material

How supplied

Flat-packed kit

Note

If required, please also order Velcro strip.



MEC20067

W	H	D	U	Model	Order no.	UP
			41	For rack type Miracel	05.040.021.1	1 set
			46	For rack type Miracel	05.040.022.1	1 set
			41	For rack type Miracel	05.040.021.8	1 set
			46	For rack type Miracel	05.040.022.8	1 set



MIR00096

C-Extrusion Rail

- For cable clamping using U-clamps or cable clamping bars
- Cable clamping closer to access (type 1)
- Suitable for use in conjunction with top cover with cable entry

Material/Finish

Sheet steel, 1.5 mm, zinc-passivated

Supply schedule

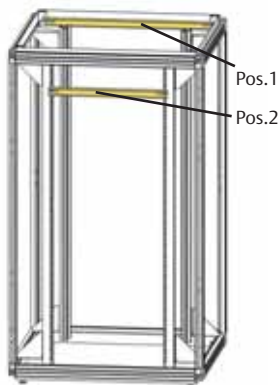
1 C extrusion rail
Mounting material

How supplied

Flat-packed kit

Note

Please also order U-clamps, cable clamping bars or threaded plates.



MIR88002

W	H	D	L	Model	Order no.	UP
600			482.5	Pos. 1: Miracel/Smaract	05.040.080.0	1 unit
800			682.5	Pos. 1: Miracel	05.040.082.0	1 unit
19			508	Pos. 2: Miracel/Smaract/ DoubleProRack	01.110.719.9	1 unit



MEC20136

Type 1

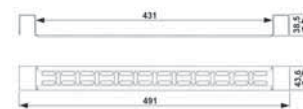


Type 1



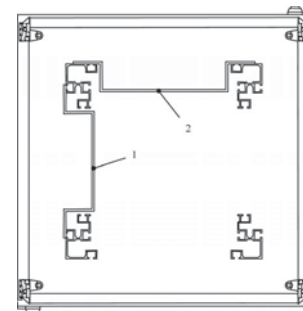
MEC20137

Type 2



MEC20121

Type 2



MIR00094

W/d	H	D	U	w1	w2	X	Type	Model	Order no.	UP
19"			1	482	442.6	81.5	1	Pos. 2: Miracel/Smaract	05.040.018.1	1 unit
19"			1				2	Pos. 2: DoubleProRack	05.040.019.1	1 unit



MEC00114

Assembly Crossbar

- For cable management with Velcro strips
- Universal mounting option for installation accessories, socket strips, telecommunication installation units, mounting panels, etc.
- For side and cross installation

Material/Finish

Sheet steel 1.5 mm, powder-coated texture, RAL 7035

Supply schedule

1 assembly crossbar

How supplied

In units

Note

Please also order the appropriate mounting material.

Cable Clamping Bar

- For clipping to the C-shaped runner

Material

Polyamide, black

Supply schedule

1 set of 10 cable clamping bars

How supplied

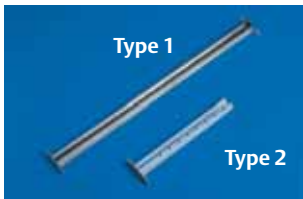
Flat-packed kit

W	H	D	U	d	L	Model	Order no.	UP
							01.130.869.9	10 units

Dimensions in mm: W = Width
H = Height
D = Depth
h = installation height
d = useful depth
L = length
U = standard height unit
1 U = 44.45 mm
UP = unit of packaging
kg = weight
Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound

Knürr Cable Management



MEC00113

C-Extrusion Rail

- For cable clamping using U-clamps or cable clamping bars
- Space-saving installation between the extrusions of the basic rack
- Two-sided installation

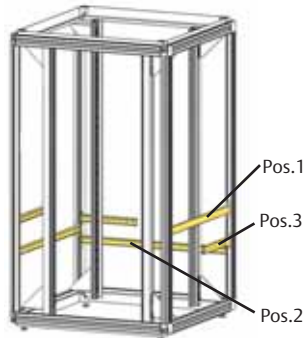
Material
Sheet steel, 1.5 mm, zinc-passivated

Finish
Zinc-passivated

Supply schedule
4 extrusion rails
Mounting material

How supplied
Flat-packed kit

Note
Please also order U-clamps, cable clamping bars or threaded plates.



MIR88004

W _{Rack}	D _{Rack}	W _{Rack}	Inst. position	For rack type	Order no.	UP
600		1		Miracel	05.040.180.9	4 units
800		1		Miracel	05.040.181.9	4 units
900		1		Miracel	05.040.182.9	4 units
1000		1		Miracel	05.040.183.9	4 units
1200		1		Miracel	05.040.185.9	4 units
		3		Miracel/Smaract	05.040.195.9	4 units
800		2		Miracel/Smaract	05.040.194.9	4 units
600		2		Miracel/Smaract	05.040.193.9	4 units



MIR20198

Top-mounting for cable tray

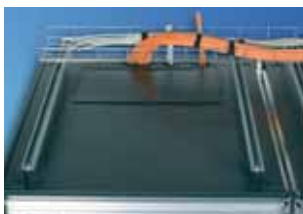
- Fixing cable trays with C extrusion rails
- Any position possible

Material/Finish
C extrusion rail: Sheet steel, zinc-passivated
Mounting bracket: Sheet steel, powdered RAL 7021

Supply schedule
2 C extrusion rails
4 mounting bracket
Mounting material

How supplied
Flat-packed kit

Note
Please also order U-clamps, cable clamping bars or threaded plates.



MEC20034

W	H	D _{Rack}	Order no.	UP
	800		05.040.072.8	1 set
	900		05.040.073.8	1 set
	1000		05.040.074.8	1 set
	1200		05.040.076.8	1 set



MIR00096

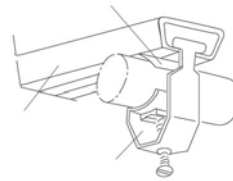
U-Clamp

- For strain relief and individual routing of cables and lines
- Clamping range, 8-64 mm

Material
Steel/plastic

Supply schedule
25 U-clamps
25 clamping saddles

How supplied
Flat-packed kit



ELM00086

W	H	D	U	d	L	Clamping range	Order no.	UP
						8-12 mm	05.040.150.9	1 unit
						12-16 mm	05.040.151.9	1 unit
						16-22 mm	05.040.152.9	1 unit
						22-28 mm	05.040.154.9	1 unit
						34-40 mm	05.040.155.9	1 unit
						46-52 mm	05.040.157.9	1 unit
						58-64 mm	05.040.159.9	1 unit



MEC20051

M5 Threaded Plate

- For use in conjunction with C extrusion rails

Material/Finish
Flat rolled steel, 4.0 mm, zinc-passivated

Supply schedule
20 threaded plates

How supplied
Flat-packed kit



MEC20069

W	H	D	L	Order no.	UP
				05.040.077.9	1 set



MEC20049

19" Cable Tray

- For orderly cable management in front of the 19" front
- Mounting on front panels possible
- Cable fixing possible using Velcro strips

Material/Finish
Sheet steel, 1.5 mm
Powder-coated texture, RAL 7035

Supply schedule
1 cable tray

Knürr Cable Management



MEC20063

How supplied

In units

Note

Please also order front panel mounting material and Velcro strip.

W	H	D	U	Model	Order no.	UP
483		100	1		05.040.055.1	1 unit



MEC20042

Cable tray between the racks

- For orderly cable management between linked racks
- Fixing possible using Velcro strips

Material/Finish

Sheet steel, 1.5mm
Powder-coated texture, RAL 7035

Supply schedule

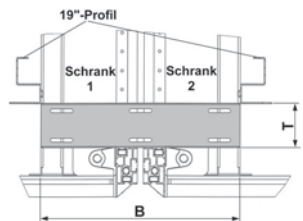
1 cable tray
Mounting material

How supplied

Flat-packed kit

Note

Please also order Velcro strip



MEC20119

W	H	D	U	Model	Order no.	UP
265		60			05.040.058.1	1 unit



MEC20090

Radial limit

- Various mounting options available:
 - on the basic rack for cable clamping
 - on the 19" extrusion for cable routing and diverting
- For use in conjunction with C extrusion rails (also order threaded plates!)

Material/Finish

Sheet steel, 1.5mm, zinc-passivated

Supply schedule

1 radial limit
Mounting material

How supplied

Flat-packed kit



MEC20071

W	H	D	L	Model	Order no.	UP
290		87			05.040.090.0	1 set



MEC20132

Radial Limit, 1 U

- For diverting the cables from the patch area vertically
- The cables can be fixed with Velcro strips
- Side use in conjunction with the cable duct is possible

Material/Finish

Sheet steel, 1.5mm,
powder-coated texture, RAL 7035

Supply schedule

1 radial limit
1 Mounting panel
Mounting material

How supplied

Flat-packed kit



MEC20143

W	H	D	U	Model	Order no.	UP
85		32	1		05.040.091.1	1 set



MEC20135

CDuct, Side

- For orderly cable management
- For use in conjunction with the front panel, swivel
- Cable rerouting with radial limiter, 1 U (optional)

Material/Finish

Sheet steel, 1.5mm
Powder-coated texture, RAL 7035

Supply schedule

1 cable duct
Mounting material

How supplied

Flat-packed kit



MEC20151

W	H	D	U	Model	Order no.	UP
100		130	41		05.040.023.1	1 set

Dimensions in mm: W = Width
H = Height
D = Depth
h = installation height
d = useful depth
L = length
U = standard height unit
1 U = 44.45 mm
UP = unit of packaging
kg = weight
Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound

Knürr Cable Management



MEC20052

Excess Copper Cable Storage

- For storing excess copper cable lengths (or fiber optic cables)
- For orderly cable management in the Miracel rack
- Can be expanded

Material/Finish
Sheet steel, 1.5 mm, zinc-passivated

Supply schedule
1 excess cable holder
Mounting material

How supplied
Flat-packed kit



MEC20079

W	H	D	U	Model	Order no.	UP
				For rack type Miracel	05.040.044.0	1 set



MEC20047

Fiber Optic 19" Excess Cable Drawer, 1 U

- For storing excess fiber optic cable lengths
- Pull-out
- Cable fixing possible with Velcro strips

Material/Finish
Sheet steel, 1.5 mm
Powder-coated texture, RAL 7035

Supply schedule
1 main unit
1 drawer

How supplied
Flat-packed kit

Note
Please also order front panel mounting material and Velcro strip.



MEC20099

W	H	D	Model	Order no.	UP
483	44	350		05.040.047.1	1 set



MEC20044

Excess Fiber Optic Cable Storage

- For orderly fiber optic cable management in the Miracel rack (from W 800 mm)
- For storing excess cable lengths

Material/Finish
Base cover: powder-coated texture, RAL 7035
Cable routing head: Polyamide, black

Supply schedule
1 base cover
1 cable routing head
Mounting material

How supplied
Flat-packed kit



MEC20146

W	H	D	U	Model	Order no.	UP
			2		05.040.041.1	1 set



MEC20038

Universal Jumpering Bracket

- Can be used for extrusion spacing (from front), 123 mm and 73 mm
- For orderly cable management
- Open version, no threading
- Mounting on the external side of the 19" extrusion
- Any installation position selectable

Material
Round steel, d = 6 mm

Finish
Zinc-passivated

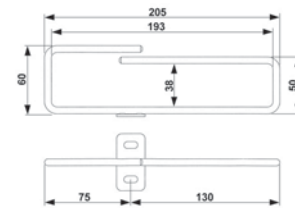
Supply schedule
4 jumpering brackets

How supplied
Flat-packed kit

Note
Please also order the appropriate mounting material.



MEC20072



MEC20106

WRack	For rack type	Order no.	UP
From 800	Miracel	05.040.220.9	4 units



MEC20039

Square Jumpering Bracket

- For orderly cable management
- Open version, no threading
- Mounting on the external side of the 19" extrusion
- Any installation position selectable
- For large cable volumes

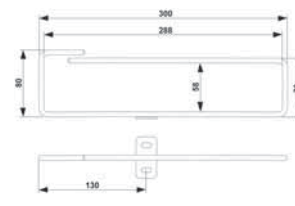
Material
Round steel, d = 6 mm

Finish
Zinc-passivated

Supply schedule
4 square jumpering brackets

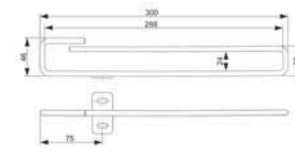
How supplied
Flat-packed kit

Note
Please also order the appropriate mounting material.



MEC20107

Type 1



MEC20116

Type 2

WRack	Type	For rack type	Order no.	UP
From 800	Type 1	Miracel	05.040.221.9	4 units
From 700	Type 2	Miracel	05.040.222.9	4 units
600	Type 2	Smaract	05.040.222.9	4 units



MEC20185

Quick-Strip Velcro strip for T-slot mounting without tools

- Quick fixing without tools
- For bundling cables
- Can be released and used again
- For orderly cable management
- For fixing into T-slots at any position

Material

Polyethylene and Nylon
F.R.T., UL-94 HB

Color

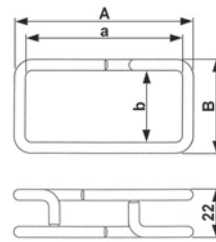
Black

Supply schedule

10 Quick-Strip Velcro strips

How supplied

Flat-packed kit



MEC20108

A	a	B	b	Model	Order no.	UP
82	72	43	33	Fig. 1	05.040.231.0	10 units
222	212	30	20	Fig. 3	05.040.232.0	10 units
102	92	82	72	Fig. 2	05.040.233.0	10 units

W	H	D	U	d	L	For rack type	Order no.	UP
						Miracel	00.218.506.0	1 set

Quick-Clamp plastic jumpering bracket for T-slot mounting without tools

- Quick fixing without tools
- For orderly cable management
- Open version, no threading
- For fixing on T-slots at any position

Material

Nylon
F.R.T., UL-94 HB

Color

Black

Supply schedule

10 plastic jumpering brackets

How supplied

Flat-packed kit



ELM00117

Square Jumpering Bracket

- For orderly cable management
- Open version, no threading
- Mounting on the external lateral T-slot of the 19" extrusion
- Any installation position selectable

Material

Round steel, d = 5 mm

Finish

Zinc-passivated

Supply schedule

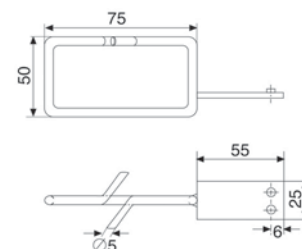
4 jumpering brackets

How supplied

Flat-packed kit

Note

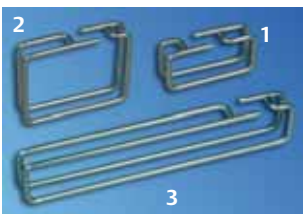
Please also order the appropriate mounting material.



ELM00106

For rack type	Order no.	UP
DoubleProRack	05.040.226.9	4 units

W	H	D	U	d	L	For rack type	Order no.	UP
						Miracel	00.218.505.0	1 set



MEC20035

Jumpering Bracket, Flexible

- For flexible and orderly cable routing
- Any installation place and position selectable
- Open version, no threading

Material

Round steel, d = 5 mm

Finish

Zinc-passivated

Supply schedule

10 jumpering brackets
Mounting material

How supplied

Flat-packed kit



MIR00564

Jumpering Bracket

- For orderly cable management
- Open version, no threading

Material/Finish

Round steel, d = 5 mm

Finish

Zinc-passivated

Supply schedule

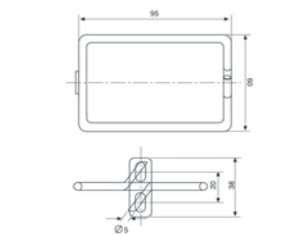
4 jumpering brackets

How supplied

Flat-packed kit

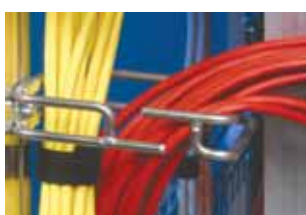
Note

Please also order the appropriate mounting material.



MEC00122

Model	Order
no. UP	



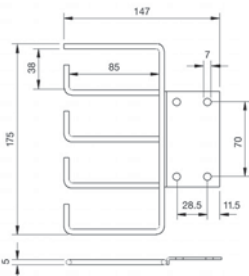
MEC20065

Knürr Cable Management



ELM00028

Z56-1/FH



ELM00029

W	H	D	U	d	L	Model	Order no.	UP
							01.117.033.7	2 units

Jumper Tiebar

- Ideal for vertical routing and cable strain relief
- Open version, no threading
- Mounting on the external lateral T-slot of the 19" extrusion
- Any installation position selectable
- From rack width 600 mm

Material/Finish
Round steel, d = 5 mm, zinc-passivated

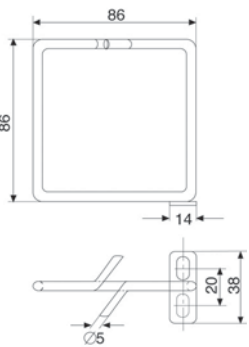
Supply schedule
2 jumper tiebars

How supplied
Flat-packed kit

Note
Please also order the appropriate mounting material.



MIR00183



ELM00057

W _{Rack}	Model	Order no.	UP
From 800	86x86	05.040.224.9	4 units

Jumpering Bracket, Square

- For orderly cable management
- Open version, no threading
- Mounting on the external lateral T-slot of the 19" extrusion
- Any installation position selectable
- From rack width 800 mm

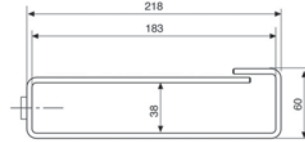
Finish
Zinc-passivated, Zn 10c, white

Supply schedule
4 vertical jumpering brackets

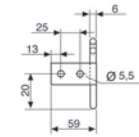
How supplied
Flat-packed kit



MIR00566



MEC00123



Jumpering Bracket, Vertical

- For orderly cable management
- Open version, no threading
- Mounting on the external side of the 19" extrusion and on the side on the rack T-slot
- Any installation position selectable
- For large cable volumes

Material
Round steel, d = 6 mm

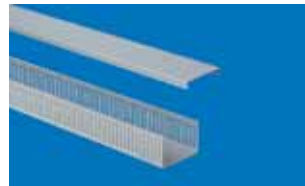
Finish
Zinc-passivated

Supply schedule
4 vertical jumpering brackets

How supplied
Flat-packed kit

Note
Please also order the appropriate mounting material.

Model	Order no.	UP
218x60	05.040.223.9	4 units



ELM00004



ELM00052

W	H	D	U	d	L	Model	Order no.	UP
						2000	01.117.098.3	1 units

Cable Duct

- Ideal for orderly and covered cable management of jumper cables

Material
Hard PVC

Finish
Stone gray, RAL 7030

Supply schedule
1 jumper cable duct with cover
Mounting material

Fiber Optic Cable Router



LIG00068



LIG00021

- For safe and orderly cable management of fiber optic cables
- With step-index extrusion of the slots to provide strain relief of the fiber optic cables
- Mounting on the external side of the 19" extrusion

Material
PA UL (94-V0)

Supply schedule
1 pair of fiber optic cable routers
Mounting material

Dimensions in mm: W = Width
H = Height
D = Depth
h = installation height
d = useful depth
L = length

U = standard height unit
1 U = 44.45 mm
UP = unit of packaging
kg = weight

= Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound

Knürr Cable Management

- **How supplied**
Flat-packed kit

W	H	D	U	d	L	Model	Order no.	UP
							01.117.099.1	1 pair



ELM00025

Cable Routing Ring

- For orderly cable management
- Open version, no threading
- Mounting on the T-slots of the vertical extrusions
- Any installation position selectable

■ **Material/Finish**
PA 6, GF 15, black, UL 94-HB

■ **Supply schedule**
5 cable routing rings
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	U	d	L	Model	Order no.	UP
						54 x 118 mm	01.312.207.9	5 units



MEC20158

Cable Routing Set

- For orderly cable management
- Dimensions:
Outside 61 mm x 42.5 mm,
inside 52 mm x 23 mm

■ **Material/Finish**
Cable holder: PPO,
sim. RAL 7035 light gray
Soft rubber extrusion: EPDM,
sim. RAL 7021 dark gray

■ **Supply schedule**
10 cable routers

■ **How supplied**
Flat-packed kit

■ **Note**
Please also order the appropriate
mounting material.

W	H	D	U	d	L	Model	Order no.	UP
						Threaded	05.040.113.9	10 units
						For cut-out 9.5 x 9.5 mm Plug-in	05.040.112.9	10 units



MEC20048

Velcro strip (by the meter)

- For stress-free mounting and bundling of copper and fiber optic cables
- Velcro strip can be cut to any length required

■ **Material/Color**
Black: One Wrap Fastener
F.R.T., UL 94-V2
Blue: One Wrap Fastener



MEC20147

■ **Supply schedule**
1-meter or 25-meter Velcro strip

■ **How supplied**
By the meter

W	H	D	L	Model	Order no.	UP
16			1000	Black	05.040.060.9	1 meter
16			1000	Blue	05.040.061.9	1 meter
16			25000	Black	05.040.065.9	25 meters
16			25000	Blue	05.040.066.9	25 meters



MEC20025

Velcro Strip with Plastic Eyelet

- For mounting non-standard components
- For bundling cables

■ **Material/Color**
Polypropylene/Polyamide, black

■ **Supply schedule**
20 Velcro strips

■ **How supplied**
Flat-packed kit

W	H	D	L	Model	Order no.	UP
16			300		01.240.550.9	1 set



ELM00049

Cable Band Clip

- For orderly cable management
- For fixing cable harnesses and cables with large cross section
- Quick and easy mounting
- For clipping into T-slots at any position
- With detachable lock

■ **Material**
PA 6.6, black, UL 94-V0

■ **Supply schedule**
20

■ **How supplied**
Flat-packed kit



ELM00050

W	H	D	U	d	L	Model	Order no.	UP
							01.240.548.9	20 units

Dimensions in mm: W = Width, H = Height, D = Depth, h = installation height, d = useful depth, L = length, U = standard height unit (1 U = 44.45 mm), UP = unit of packaging, kg = weight, = Express item

Conversion: 1 mm = 0.03937 inch, 1 kg = 2.2046 pound

HIGH DENSITY WIRE MANAGEMENT

Cable management can have a serious impact on the reliability of your data transmissions. Poorly managed cables can adversely affect network throughput whilst poorly arranged patch cords can make cabling moves, add-ons and changes difficult to achieve. High Density Wire Managers will help to improve network performance and reliability by reducing the risk of attenuation due to fiber micro bends. Its capacity allows for a large number of patch cables without exceeding TIA/EIA/ISO recommended fill factor. Due to its clever design, backbone as well as patch cables will be well organized in accordance with industry standards and major cable manufacturer recommendations so any cabling needs will be met.

DESCRIPTION:

Front/rear design

- Dual pathway for managing cables within the same HDWM
- Horizontal and vertical orientations, except rack vertical (VMR) which are front only

Front only design

- Simple pathway for cables
- Available in horizontal and vertical orientations

Horizontal orientation

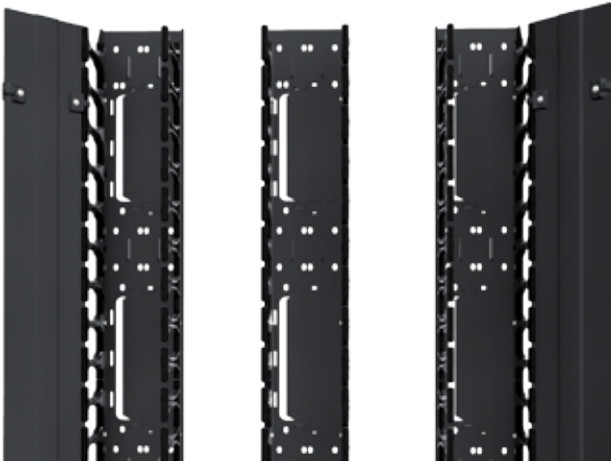
- Horizontal pathway for managing cables among the installed equipment
- Mounting onto the 19" extrusions

Vertical orientation

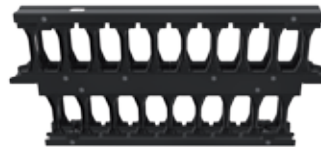
- Vertical pathway for managing cables into and through the rack or frame
- Velcro cable ties for optimum cable bundle management
- Vertical managers can be bolted together (front to back) to customize the HDWM to your requirements

Cable Troughs

- Allow the management of cables between vertical rack (VMR) or frame (VMF) HDWM
- Adjustable length



Front only design - HDWM-WM-3F



Front/rear design - HDWM-HM-1FR

INSTALLATION

vertical high density wire managers can be installed in any type of standard vertical 19" extrusions

HDWM-HM-1FR

front/rear horizontal 1U high density wire manager, applicable in both rack and frame deployments

front/rear horizontal 2 or 3U high density wire manager with brush also available

HDWM-HM-2F

front horizontal 2U high density wire manager, applicable in both rack and frame deployments

HDWM-VMR-ACT

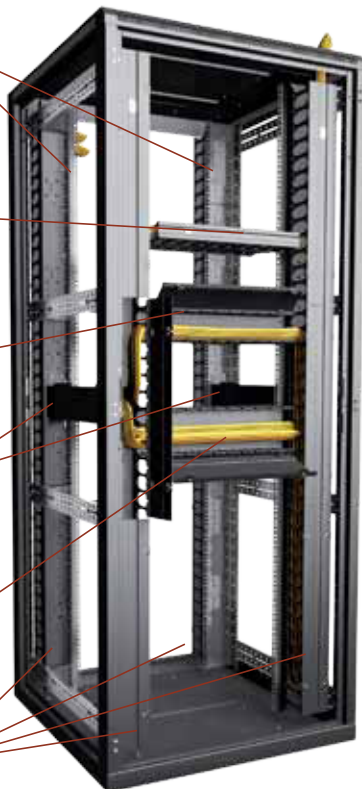
horizontal adjustable cable troughs to lead the cables between front and rear vertical rack high density wire managers

HDWM-HM-3F

front horizontal 3U high density wire manager, applicable in both rack and frame deployments

HDWM-VMR-42-12/10F

front vertical high density wire managers, applicable in rack deployment



HDWM-VMF-47-15/20F

front vertical high density wire manager, applicable in frame deployments

HDWM-VMF-47-15/20F

front vertical high density wire manager, applicable in frame deployments

HDWM-VMF-ACT

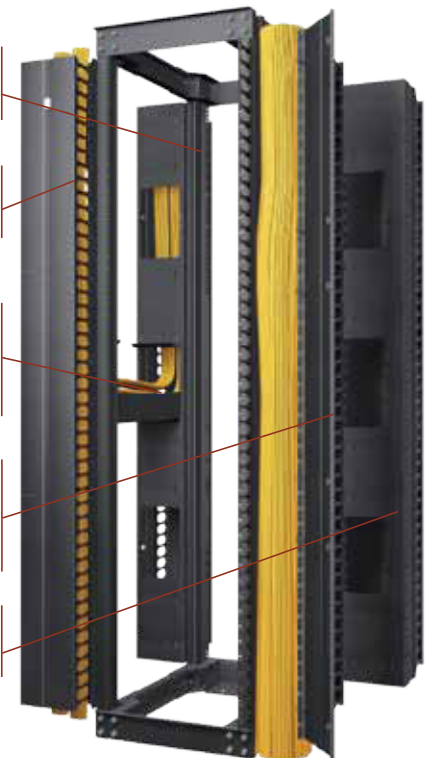
horizontal adjustable cable troughs to lead the cables between front and rear vertical open frame high density wire managers

HDWM-VMF-47-25/20F (2x)

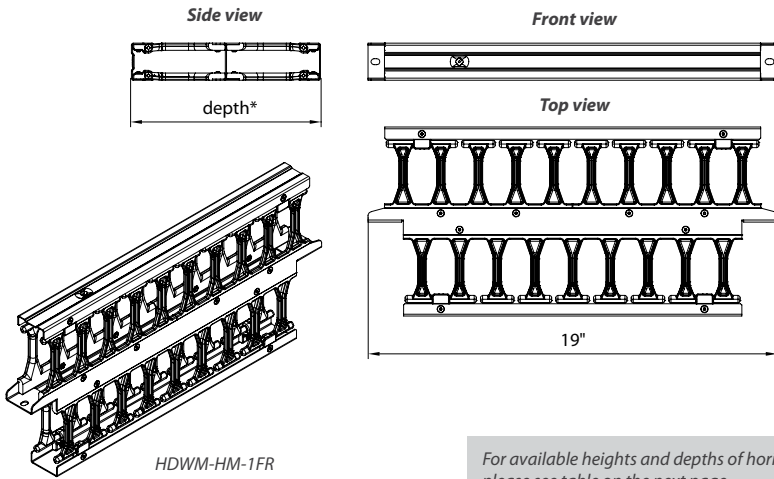
front wire managers shown joined to give front & rear cable management, applicable in frame deployments

HDWM-VMF-47-25/30F

front vertical high density wire manager, applicable in frame deployments

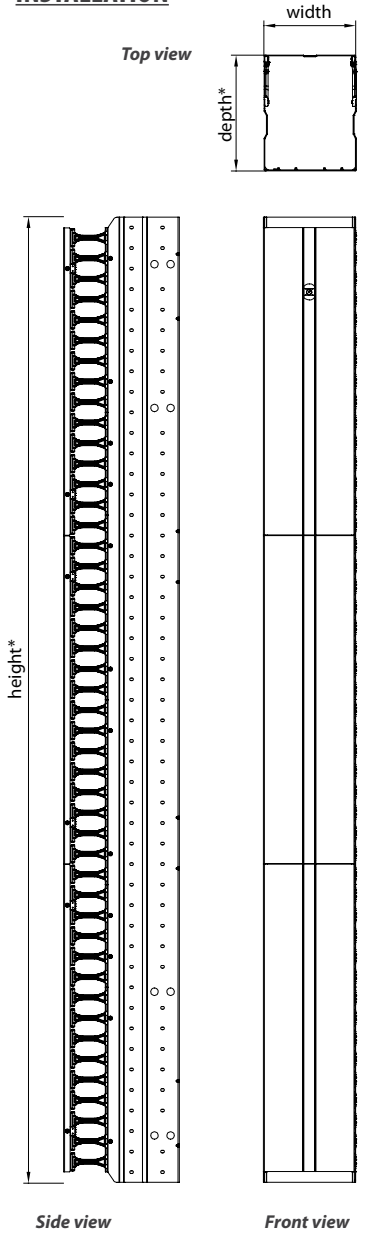


HORIZONTAL HIGH DENSITY WIRE MANAGERS – FRONT/REAR



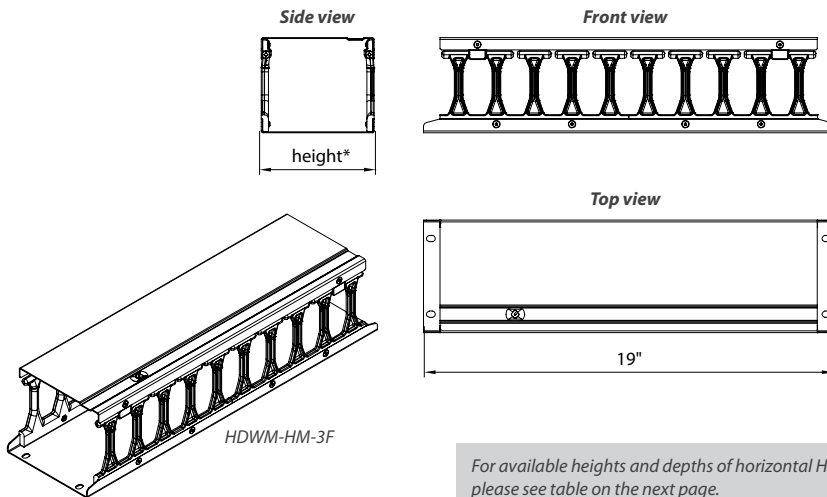
For available heights and depths of horizontal HDWM please see table on the next page.

VERTICAL HIGH DENSITY WIRE MANAGERS – OPEN FRAME INSTALLATION



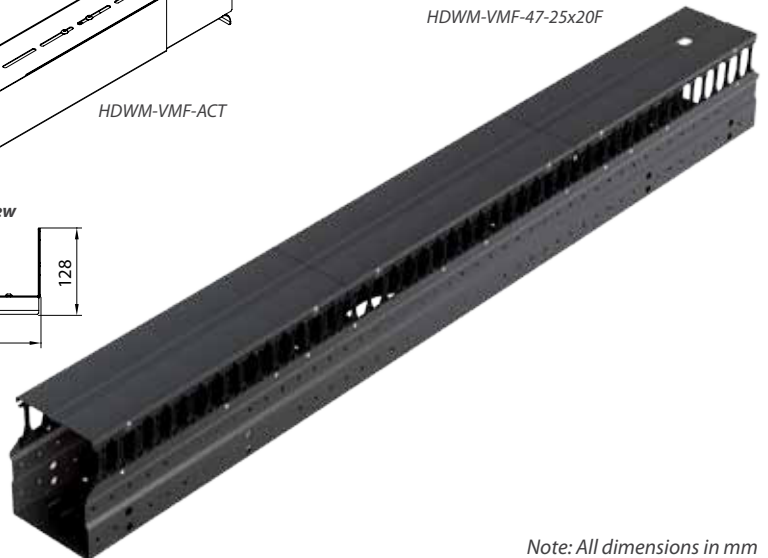
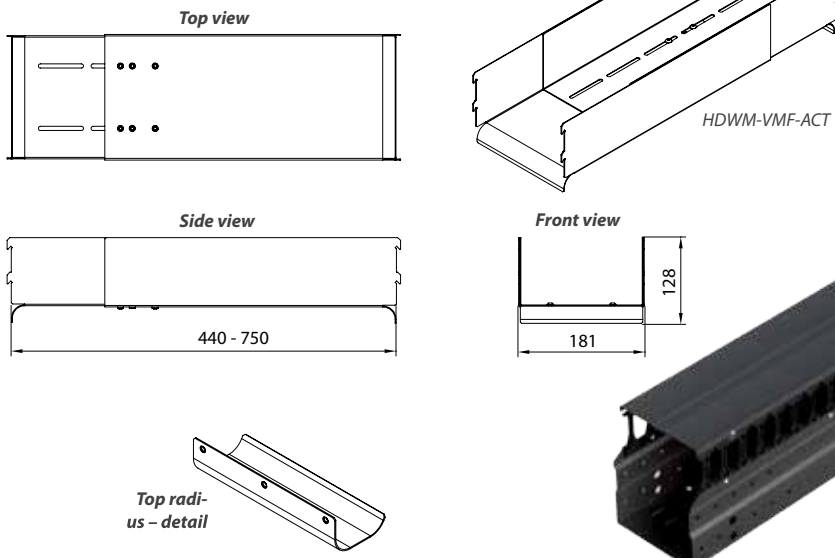
HDWM-VMF-47-25x20F

HORIZONTAL HIGH DENSITY WIRE MANAGERS – FRONT ONLY



For available heights and depths of horizontal HDWM please see table on the next page.

ADJUSTABLE CABLE TROUGH FOR VERTICAL HDWM – FRAME INSTALLATION



Note: All dimensions in mm

HORIZONTAL HIGH DENSITY WIRE MANAGERS

Code	Installation	Type	No. of fingers		Dimensions		
			Front	Rear	H in U	W	D in mm
HDWM-HM-1F	Open frame/rack	Front	10	x	1	19"	112
HDWM-HM-1FR	Open frame/rack	Front/rear	10	9	1	19"	223
HDWM-HM-2F	Open frame/rack	Front	10	x	2	19"	112
HDWM-HM-2FR	Open frame/rack	Front/rear	10	9	2	19"	223
HDWM-HM-2FRB	Open frame/rack	Front/rear, brush	10	9	2	19"	223
HDWM-HM-3F	Open frame/rack	Front	10	x	3	19"	112
HDWM-HM-3FR	Open frame/rack	Front/rear	10	9	3	19"	223
HDWM-HM-3FRB	Open frame/rack	Front/rear, brush	10	9	3	19"	223

Standard equipment: manager, installation instructions, 4 mounting kits

VERTICAL HIGH DENSITY WIRE MANAGERS

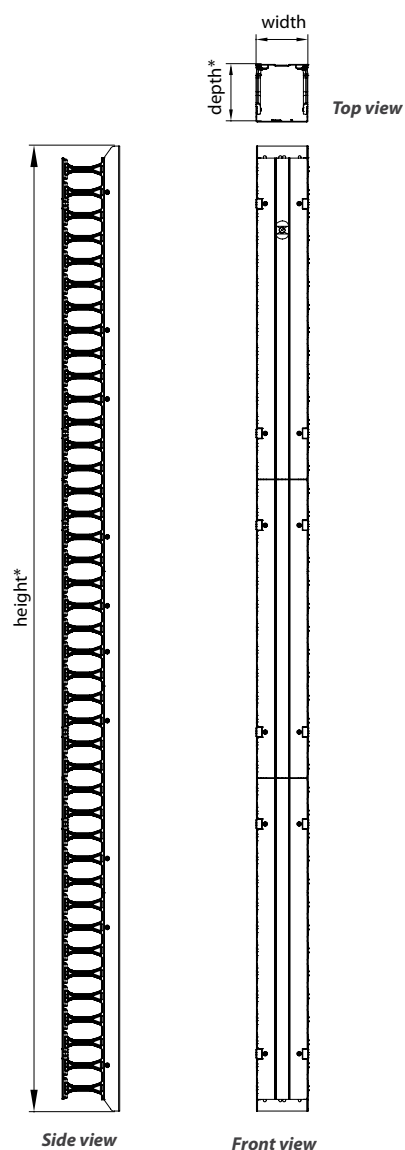
Code	Installation	Type	No. of fingers		Dimensions		
			Front	Rear	H in U	W in mm	D in mm
HDWM-VMR-42-12/10F	Rack	Front	41	x	42	100	126
HDWM-VMR-45-12/10F	Rack	Front	44	x	45	100	126
HDWM-VMF-42-15/20F	Open frame	Front ¹	41	x	42	200	151
HDWM-VMF-45-15/20F	Open frame	Front ¹	44	x	45	200	151
HDWM-VMF-47-15/20F	Open frame	Front ¹	46	x	47	200	151
HDWM-VMF-42-25/20F	Open frame	Front ¹	41	x	42	200	251
HDWM-VMF-45-25/20F	Open frame	Front ¹	44	x	45	200	251
HDWM-VMF-47-25/20F	Open frame	Front ¹	46	x	47	200	251
HDWM-VMF-42-25/30F	Open frame	Front ¹	42	x	41	300	251
HDWM-VMF-45-25/30F	Open frame	Front ¹	44	x	45	300	251
HDWM-VMF-47-25/30F	Open frame	Front ¹	46	x	47	300	251

Standard equipment: manager including blanking panels, installation instructions, mounting hardware, 10 velcro ties
¹For front/rear design simply order respective front managers and install them easily together on the installation site by using enclosed hardware which is delivered in each box as standard

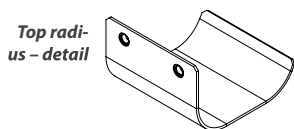
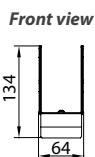
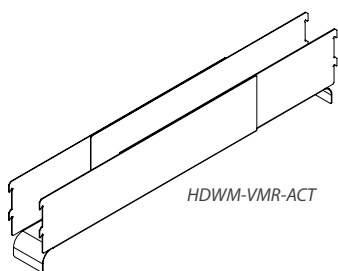
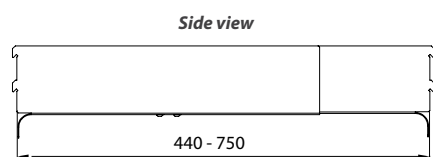
ACCESSORIES FOR HIGH DENSITY WIRE MANAGERS

Code	Description
HDWM-VMR-19	Bracket for attachment of HDWM-VMR-xx-xx/xxF to 19" profiles (not required for ROF/RHF/RDF/RSF)
HDWM-VMR-ACT	Adjustable cable trough to manage cables between front and rear mounted vertical High Density Rack Wire Managers
HDWM-VMF-ACT	Adjustable cable trough to manage cables between front and rear mounted vertical High Density Frame Wire Managers
HDWM-VMF-B15	Bracket for attachment of HDWM-VMF-xx-15/xxF to back of open frame (not required for RSG and CPI/Panduit)
HDWM-VMF-B25	Bracket for attachment of HDWM-VMF-xx-25/xxFR to back of open frame (not required for RSG and CPI/Panduit)
HDWM-VMF-BLANK-42	Blank panel kit to close ACT holes for 42U VMF range of wire managers
HDWM-VMF-BLANK-45	Blank panel kit to close ACT holes for 45/47U VMF range of wire managers
HDWM-FSS-50	Fiber Storage Spools, 50mm deep, pair, including mounting hardware
HDWM-FSS-100	Fiber Storage Spools, 100mm deep, pair, including mounting hardware
HDWM-VCT	Velcro Cable Ties, 25mm x 300mm, pack 10, black

VERTICAL HIGH DENSITY WIRE MANAGERS – RACK INSTALLATION



ADJUSTABLE CABLE TROUGH FOR VERTICAL HDWM – RACK INSTALLATION



Note: All dimensions in mm

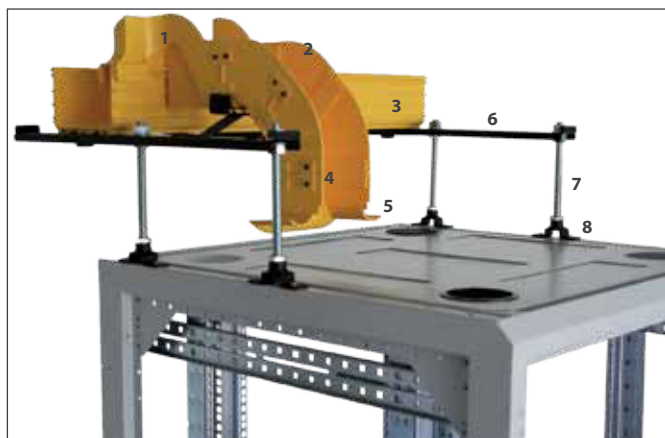
OPTIWAY SYSTEM

OptiWay is designed to provide a safe, easy to use, and cost effective management system for your fragile optical cables. OptiWay allows you to route fiber optic cables among equipment and provides the physical protection and bend radius management that is crucial to optical cable performance.

Constructed of halogen free PC/ABS material OptiWay can be used to protect your cabling from the point of building entry right up to the terminal devices. The OptiWay system is fully modular giving you unrivalled flexibility in your chosen layout, whether a new build or refurbishment project.



Description of pictures 1 and 2 on the right		
No	Code	Description
1	OPW-10DR	Spillover
2	OPW-16IA90	Vertical inside elbow
3	OPW-16MD2M	Main Duct
4	OPW-10JO	Joiner
5	OPW-10TP	Trumpet
6	OPW-RRB-100	Threaded rod attachment bracket (rack mounting)
7	OPW-TR-16/20	Threaded rod
8	OPW-TR-BR	Threaded rod mounting bracket
9	OPW-TR-16/100	Threaded rod
10	OPW-30MD2M	Main duct
11	OPW-TRB-30	Threaded rod attachment bracket (ceiling mounting)



1. Example of OptiWay installation on the top of the rack

OPTIWAY INSTALLATION – there are two ways of installing OptiWay system. In the first case the threaded rods are fixed to the ceiling construction and OptiWay ducts are supported by brackets mounted on the threaded rods. In the second case, threaded rods are fixed to the top of rack. OptiWay ducts are again supported by brackets mounted on the threaded rods. As each type of installation has its own specific features, the final design is individually customized by CONTEG product engineers to guarantee the best available OptiWay system performance.



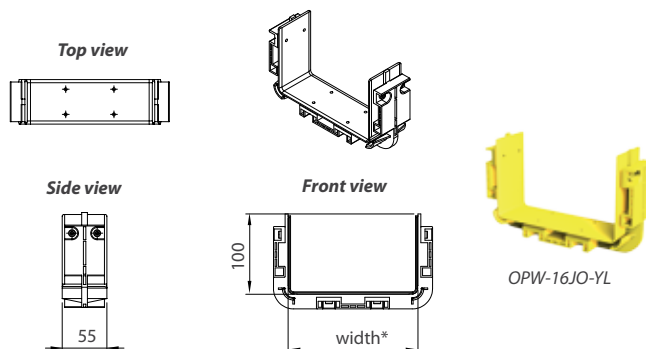
2. Example of OptiWay installation from the ceiling

JOINER

Used to connect two components of OptiWay. The joiner does not require drilling of duct or components. Screws included. Color: Yellow

Code	Inner duct size in mm	
	H	W
OPW-10JO-YL	100	100
OPW-16JO-YL	100	160
OPW-30JO-YL	100	300

*for available widths see appropriate table



MAIN DUCT

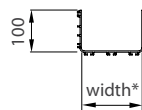
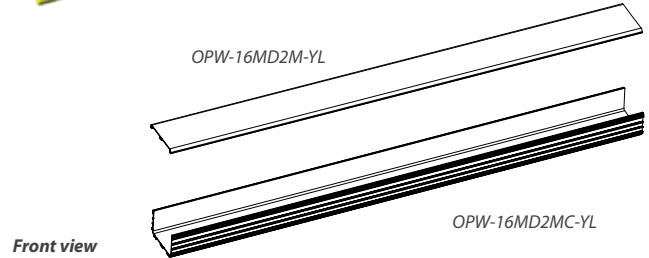
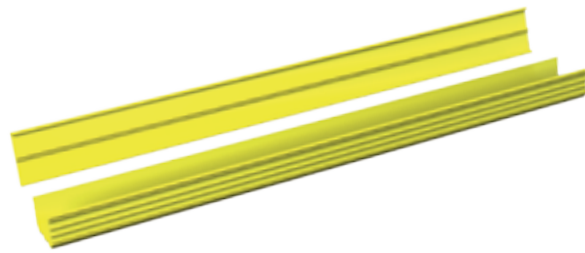
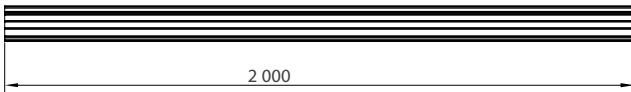
The main duct is an extruded 2 meter long conduit and can be connected with any other OptiWay products using joiners. The duct can be easily cut to length on site. Delivered always in even numbers (packaged by 2pcs = 4m). Color: Yellow

Code	Inner duct size in mm		Length in m
	H	W	
OPW-16MD2M-YL	100	160	2
OPW-30MD2M-YL	100	300	2
Covers			
OPW-16MD2MC-YL	-	160	2000
OPW-30MD2MC-YL	-	300	2000

Top view



Side view



Duct load rating 20kg/m, required distance between brackets max. 900mm

*for available widths see appropriate table

CROSS

The Cross is used to establish a 4 way right angled intersection. Four joiners are required per cross. Color: Yellow

Code	Inner duct size in mm		Arms
	H	W	
OPW-16CA-YL	100	160	4
OPW-30CA-YL	100	300	4
Covers			
OPW-16CAC-YL			160
OPW-30CAC-YL			300

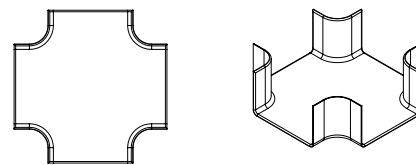


OPW-16CA-YL

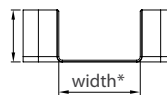


OPW-16CAC-YL

Top view



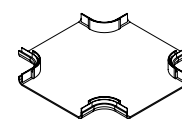
Side view



Front view



Cover

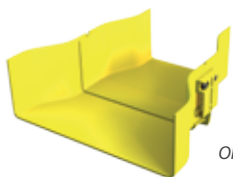


*for available widths see appropriate table

REDUCER

The reducer allows sections of 300 x 100 & 160 x 100 OptiWay to be joined together. Two joiners are required per reducer. Color: Yellow

Code	Inner duct size in mm	
	H	W ₁ / W ₂
OPW-3016RD-YL	100	300 / 160
Cover		
OPW-3016RDC-YL	-	300 / 160

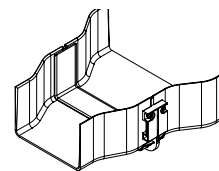
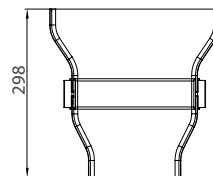


OPW-3016RD-YL

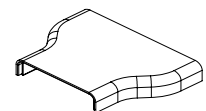


OPW-3016RDC-YL

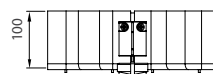
Top view



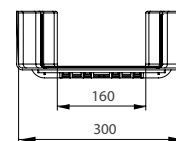
Cover



Side view



Front view

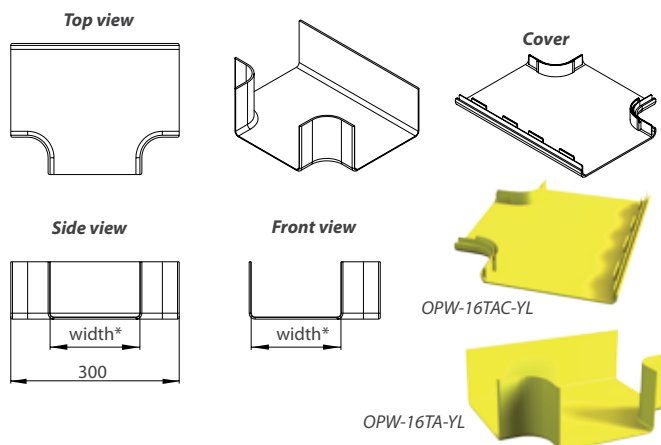


Note: All dimensions in mm

TEE

The Tee is used to 3-way right angled intersection. Three joiners are required per Tee. Color: Yellow

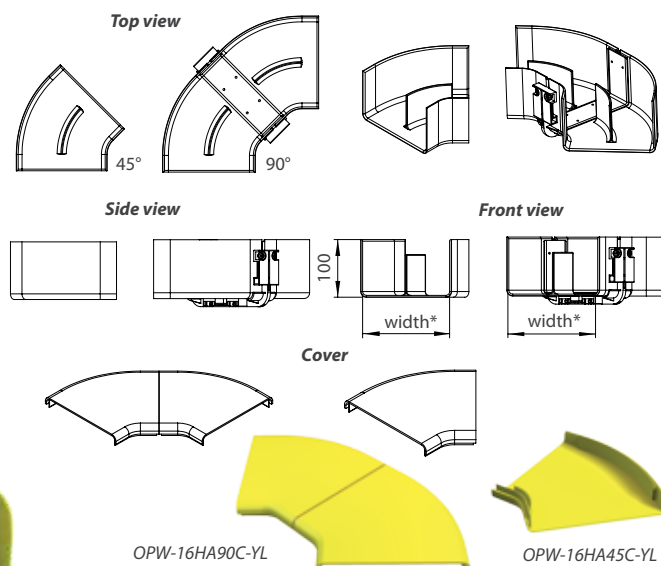
Code	Inner duct size in mm	
	H	W
OPW-16TA-YL	100	160
OPW-30TA-YL	100	300
Covers		
OPW-16TAC-YL	-	160
OPW-30TAC-YL	-	300



HORIZONTAL ELBOW

The horizontal elbows allow ducts to be diverted through 45° or 90°. Two joiners required per elbow. Color: Yellow

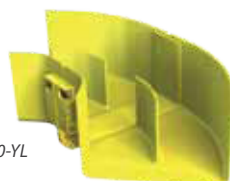
Code	Type	Inner duct size in mm	
		H	W
OPW-16HA45-YL	45°	100	160
OPW-30HA45-YL	45°	100	300
OPW-16HA90-YL	90°	100	160
OPW-30HA90-YL	90°	100	300
Covers			
OPW-16HA45C-YL	45°	-	160
OPW-30HA45C-YL	45°	-	300
OPW-16HA90C-YL	90°	-	160
OPW-30HA90C-YL	90°	-	300



OPW-16HA45-YL



OPW-16HA90-YL

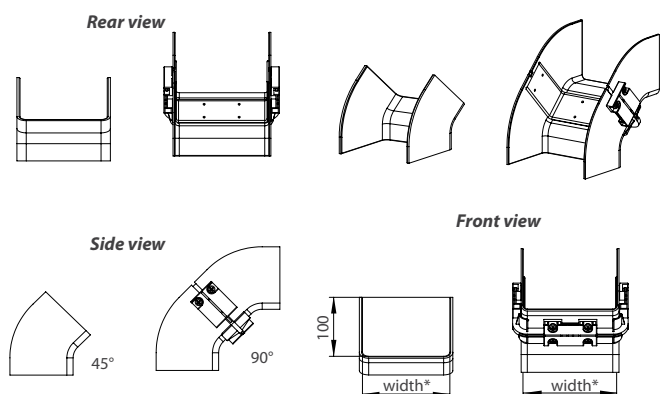


* for available widths see appropriate table

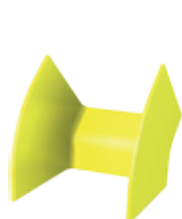
VERTICAL INSIDE ELBOW

The vertical inside elbows allow ducts to be diverted through 45° or 90° with an Inside angle (usually in a downward direction). Two joiners required per elbow. Color: Yellow

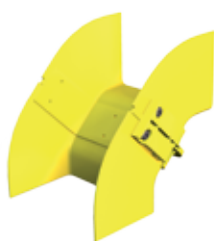
Code	Type	Inner duct size in mm	
		H	W
OPW-16IA45-YL	45°	100	160
OPW-30IA45-YL	45°	100	300
OPW-16IA90-YL	90°	100	160
OPW-30IA90-YL	90°	100	300
Covers			
OPW-16IA45C-YL	45°	-	160
OPW-30IA45C-YL	45°	-	300
OPW-16IA90C-YL	90°	-	160
OPW-30IA90C-YL	90°	-	300



* for available widths see appropriate table

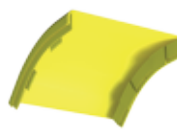


OPW-16IA45-YL

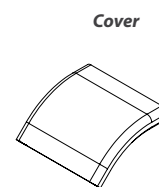


OPW-16IA90-YL

OPW-16IA90C-YL



OPW-16IA45C-YL

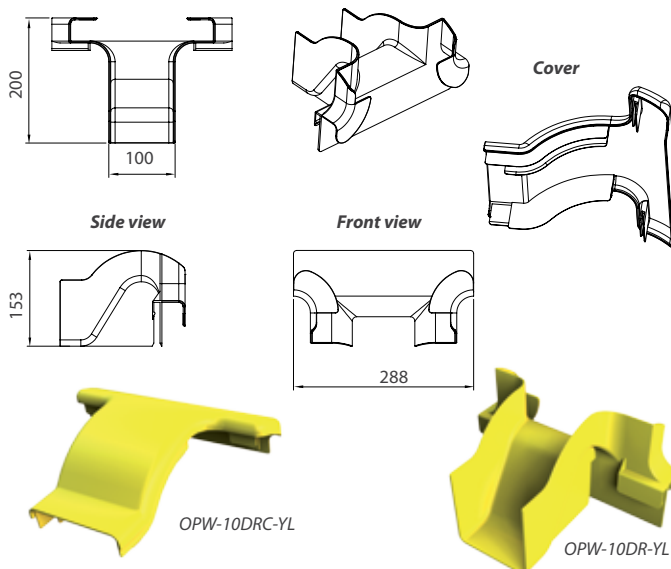


Note: All dimensions in mm

SPILOVER

The spillover is used to provide a controlled exit from the OptiWay ducting system for cables. Color: Yellow

Code	Inner duct size in mm	
	H	W
OPW-10DR-YL	100	100
Cover		
OPW-10DRC-YL	-	100

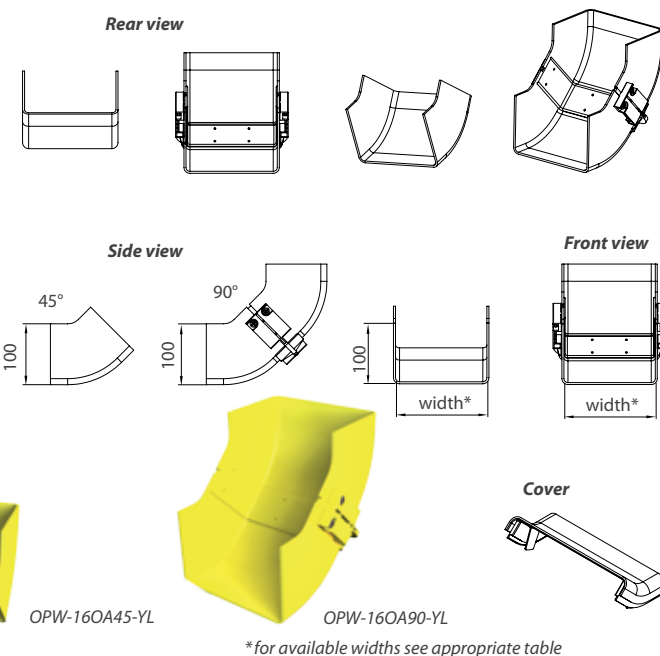


ACCESSORIES FOR SPILOVER	
Code	Description
OPW-10JO-YL	OptiWay 100 Joiner, 100 x 100mm, yellow
OPW-10TP-YL	OptiWay 100 Trumpet, 100 x 100mm, yellow
OPW-10IA45-YL	OptiWay 100mm 45 degree down angle, yellow
OPW-SDMB-16	OptiWay Side Drop Mounting Bracket for 160 x 100mm duct size
OPW-SDMB-30	OptiWay Side Drop Mounting Bracket for 300 x 100mm duct size

VERTICAL OUTSIDE ELBOW

The vertical outside elbows allow ducts to be diverted through 45° or 90° with an Inside angle (usually in an upward direction). Two joiners required per elbow. Color: Yellow

Code	Angle	Inner duct size in mm	
		H	W
OPW-16OA45-YL	45°	100	160
OPW-30OA45-YL	45°	100	300
OPW-16OA90-YL	90°	100	160
OPW-30OA90-YL	90°	100	300
Covers			
OPW-16OA45C-YL	45°	-	160
OPW-30OA45C-YL	45°	-	300
OPW-16OA90C-YL	90°	-	160
OPW-30OA90C-YL	90°	-	300

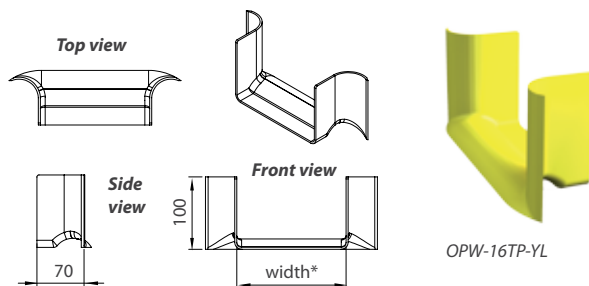


*for available widths see appropriate table

TRUMPET

The trumpet is used to provide bend-radius control for cables entering or exiting the OptiWay ducting system. One joiner is required per trumpet. Color: Yellow

Code	Inner duct size in mm	
	H	W
OPW-10TP-YL	100	100
OPW-16TP-YL	100	160
OPW-30TP-YL	100	300

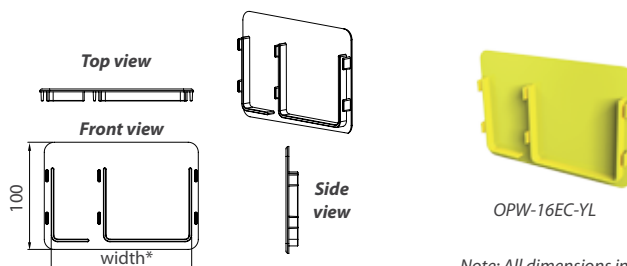


*for available widths see appropriate table

END CAP

Provides a clean finish to the end of an OptiWay run. Color: Yellow

Code	Inner duct size in mm	
	H	W
OPW-16EC-YL	100	160
OPW-30EC-YL	100	300

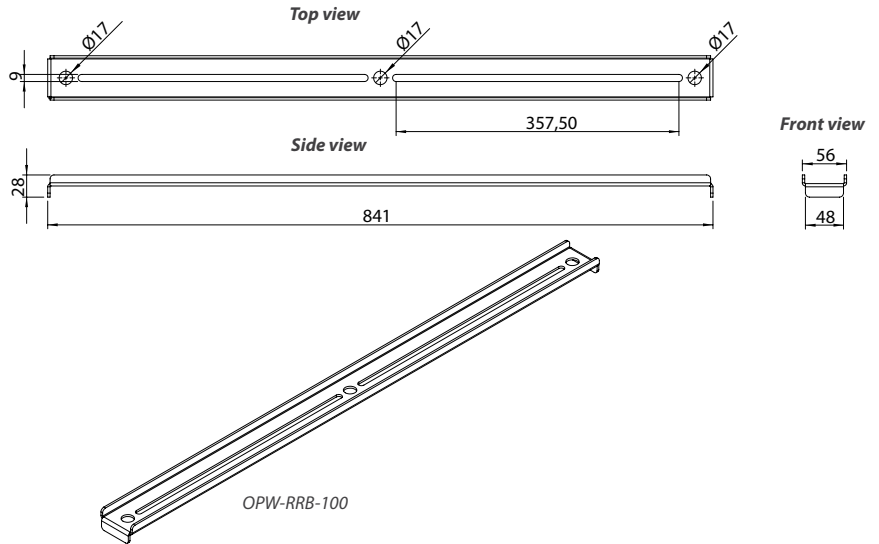
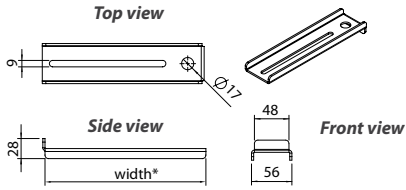


*for available widths see appropriate table

Note: All dimensions in mm

THREADED ROD ATTACHMENT BRACKET

Basic supporting element. Consists of metal bracket and 2 fixing screws. Please note: brackets do not include threaded rod. Recommended threaded rod of diameter 12-16mm. Color: Black



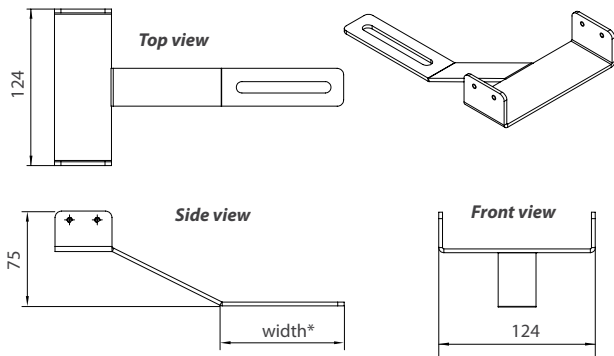
Code	Bracket length in mm	Type of mounting	Rec. rack depth in mm	Mount. holes
OPW-TRB-16	160	ceiling mounted	all	1
OPW-TRB-30	300	ceiling mounted	all	1
OPW-RRB-40	400	mounted on the top of the half part of the rack	800	2
OPW-RRB-50	500	mounted on the top of the half part of the rack	1000	2
OPW-RRB-60	600	mounted on the top of the half part of the rack	1200	2
OPW-RRB-80	800	on top of the rack or overlap of the rack	800	2
OPW-RRB-100	1000	on top of the rack or overlap of the rack	1000	2
OPW-RRB-120	1200	on top of the rack or overlap of the rack	1200	2

Note: required distance between brackets max. 900mm

*for available widths see appropriate table

SPILOVER SUPPORT BRACKET

Spillover's supporting element. Consists of metal bracket and 2 fixing screws. Color: Black

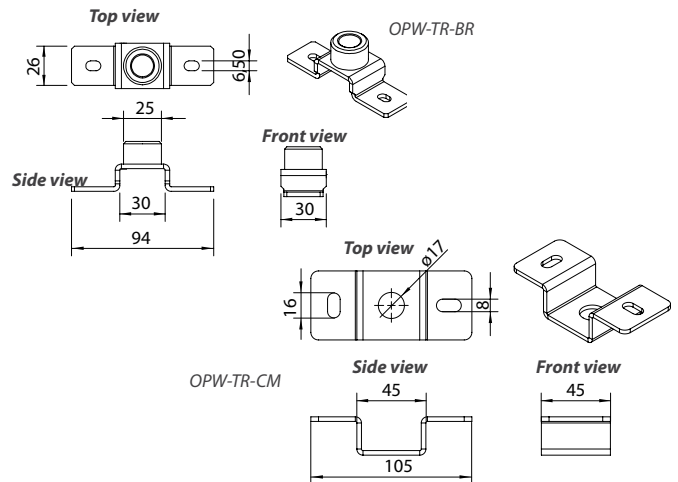


*for available widths see appropriate table

Note: All dimensions in mm

Code	Supported duct inner size in mm	
	H	W
OPW-SDMB-16	100	160
OPW-SDMB-30	100	300

THREADED ROD



Code	Supported duct inner size in mm		Type of mounting
	H	Size	
OPW-TR-16/100	1000	M16	from the ceiling
OPW-TR-16/200	2000	M16	from the ceiling
OPW-TR-16/20	200	M16	on the top of the rack using OPW-TR-BR
OPW-TR-16/40	400	M16	on the top of the rack using OPW-TR-BR
OPW-TR-16/60	600	M16	on the top of the rack using OPW-TR-BR
OPW-TR-BR		M16	Threaded rod mounting bracket for top part of RDF/RSF/RHF
OPW-TR-CM			Threaded rod mounting bracket for ceiling installation with OPW-TR-16/100 or 200

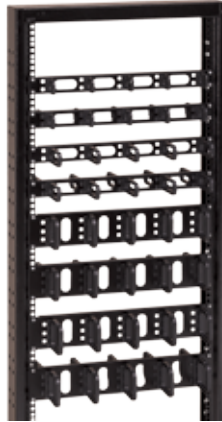
STANDARD CABLE MANAGEMENT

19" WIRE MANAGEMENT PANELS WITH PLASTIC BRACKETS

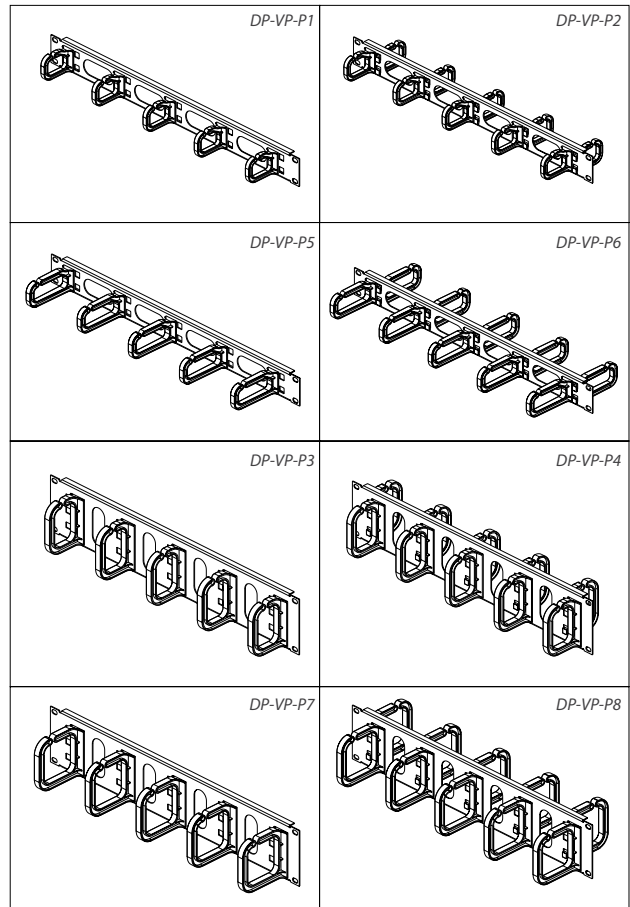
Used for storing and managing cables horizontally within the rack.

DESCRIPTION:

- 19" height
- Available in "only" and "front and rear" types
- plastic brackets per side
- openings in panel allow front to rear cabling
- powder coated RAL (standard RAL 9005); brackets black



DP-VP-P



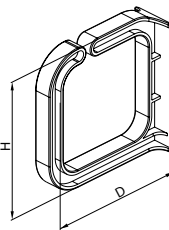
Code	H in U	Type	Hook sizes H x D in mm	Number of brackets
DP-VP-P1	1	Front only	40 x 50	5
DP-VP-P2	1	Both sides	40 x 50	10
DP-VP-P3	2	Front only	80 x 60	5
DP-VP-P4	2	Both sides	80 x 60	10
DP-VP-P5	1	Front only	40 x 80	5
DP-VP-P6	1	Both sides	40 x 80	10
DP-VP-P7	2	Front only	80 x 80	5
DP-VP-P8	2	Both sides	80 x 80	10













PLASTIC CABLE BRACKETS

Mounted on 19" vertical extrusions for management of horizontal and vertical cabling within the rack.

DESCRIPTION:

- Types:
 - a) for managing vertical cables
 - b) for managing horizontal cables
- Equipped with a metal flange for installing on 19" vertical extrusions
- powder coated RAL (standard RAL 9005); brackets black



 VO-P1-40/50	 VO-P5-40/80	 VO-P3-80/60	 VO-P7-80/80
 VO-P2-40/50	 VO-P6-40/80	 VO-P4-80/60	 VO-P8-80/80
 VO-40/50	 VO-40/80	 VO-80/60	 VO-80/80

Code	H in mm	D in mm	Orientation
VO-P1-40/50	40	50	Horizontal
VO-P2-40/50	40	50	Vertical
VO-P3-80/60	80	60	Horizontal
VO-P4-80/60	80	60	Vertical
VO-P5-40/80	40	80	Horizontal
VO-P6-40/80	40	80	Vertical
VO-P7-80/80	80	80	Horizontal
VO-P8-80/80	80	80	Vertical

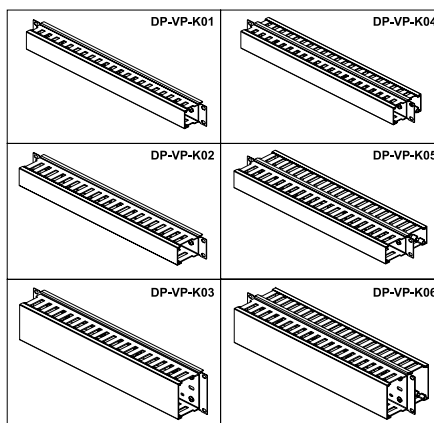
H...height, D...depth

19" WIRE MANAGEMENT PANELS WITH PLASTIC DUCTS

Used for storing and managing cables horizontally; within the rack.

DESCRIPTION:

- Height 1U or 2U
- Available in "front only" and "front and rear" types
- Plastic duct for cable managing
- Oval openings in panel allow front to rear cable passing
- Color powder coated RAL (standard RAL 9005); ducts are black



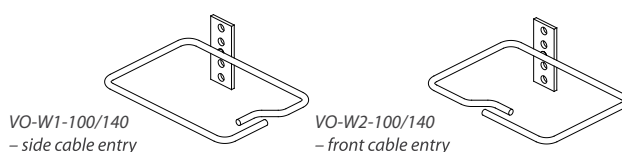
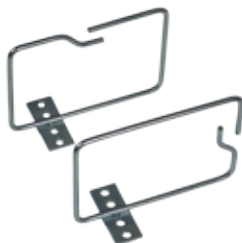
Code	H in U	Type	Duct sizes H x D in mm
DP-VP-K01	1	Front only	40 x 40
DP-VP-K02	1	Front only	40 x 60
DP-VP-K03	2	Front only	80 x 60
DP-VP-K04	1	Both sides	40 x 40
DP-VP-K05	1	Both sides	40 x 60
DP-VP-K06	2	Both sides	80 x 60

METAL CABLE BRACKETS

Mounted on 19" vertical extrusions and used for vertical cable management in racks.

DESCRIPTION:

- For vertical cable management
- Dimensions 100x140mm
- Flange with 4 holes for installing on front or side of 19" vertical extrusion
- Zinc plated
- Each code contains 10pcs of brackets
- Front or side cable entry



Code	Dimensions in mm		Cable entry	Qty
	W	D		
VO-W1-100/140	140	100	side	10 pcs
VO-W2-100/140	140	100	front	10 pcs

HOLDERS OF VERTICAL WIRE MANAGEMENT PANELS AND CABLE BRACKETS

Used for installation of vertical wire management panels and cable brackets (ordered separately) in 800mm wide free-standing racks.

DESCRIPTION:

- Set includes 2 holders
- Mounting kit included
- Color black (RAL 9005)



HVMF with installed VO-80/80 brackets

Code	Rack height in U
HVMF-15	15
HVMF-18	18
HVMF-21	21
HVMF-24	24
HVMF-27	27
HVMF-33	33
HVMF-36	36
HVMF-42	42
HVMF-45	45
HVMF-48	48

VERTICAL WIRE MANAGEMENT PANELS

Used for storing and managing cables vertically in 800mm wide free-standing racks.

DESCRIPTION:

- For racks 15-48U high
- Plastic duct for cable management, size 80x60mm
- Oval openings in base of ducts allow front to rear cabling
- Ducts of 33U and over have divided cover for easier handling
- Installation to the front part of vertical extrusions by using holder of vertical wire management panels (HVMF) – ordered separately
- Color black (RAL 9005)

Code	Rack height in U
DP-VP-VR-15	15
DP-VP-VR-18	18
DP-VP-VR-21	21
DP-VP-VR-24	24
DP-VP-VR-27	27
DP-VP-VR-33	33
DP-VP-VR-36	36
DP-VP-VR-42	42
DP-VP-VR-45	45, 48



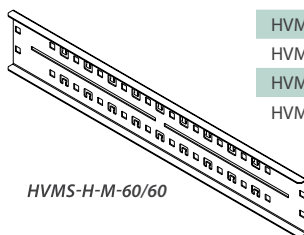
HVMF-42/45/48 – holder with 3x 1U 19" positions – on the request

HORIZONTAL HOLDERS FOR CABLE TRAYS AND SIDE CABLE MANAGEMENT

The HVMS-H-M holders are used for fitting vertical cable trays in racks. The holder can be used also as cable holder.

DESCRIPTION:

- HVMS-H-M: for ROF family rack series, mounted to rack frame
- HVMS-H: for all rack series (recommended for RM7 and RI7), mounted on vertical extrusions
- Possibility to install plastic cable brackets
- Set includes 2 holders
- Mounting kit included



HVMS-H-M-60/60

Code	Used in rack sizes (in mm)	
	ROF/RMF/RDF/RHF/RSF	SEVEN family
HVMS-H-M-60/60	600x600, 800x600 600x1200, 800x1200	
HVMS-H-M-60/80	600x800, 800x800	
HVMS-H-M-60/100	600x1000, 800x1000	
HVMS-H-600	600x600, 800x600	600x600, 800x600
HVMS-H-800	600x800, 800x800	600x800, 800x800

CABLE BASKET TRAYS

Cable basket trays HVMS-B are used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels.

DESCRIPTION:

- 140x30mm (WxD): could be mounted between horizontal holder and side panel
- 300x60mm and 400x60mm (WxD); mounted on inner side of horizontal holder
- 140x60mm (WxD): mounted on inner side of horizontal holder
- Produced for rack sizes 15-48U
- Mounted on holders of vertical extrusions, horizontal holders are needed for racks of 18, 21 and 27U; for RI7 and RM7 only sizes 42 and 45U
- Set of fittings included



HVMS-B

Code	Dimensions in mm			Used in rack height (U)
	H	W	D	
HVMS-B-600-140/30	605	170	35	15,18
HVMS-B-800-140/30	805	170	35	21
HVMS-B-1000-140/30	1005	170	35	24, 27
HVMS-B-1400-140/30	1405	170	35	33, 36
HVMS-B-1800-140/30	1805	170	35	42, 45, 48
HVMS-B-600-140/60	605	170	65	15, 18
HVMS-B-800-140/60	805	170	65	21
HVMS-B-1000-140/60	1005	170	65	24, 27
HVMS-B-1400-140/60	1405	170	65	33, 36
HVMS-B-1800-140/60	1805	170	65	42, 45, 48

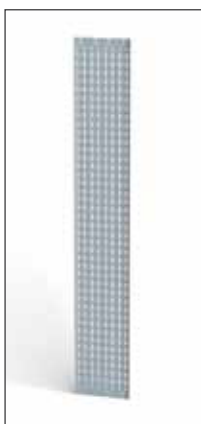
Code	Dimensions in mm			Used in rack height (U)
	H	W	D	
HVMS-B-1800-300/60	1805	325	65	42, 45, 48
HVMS-B-1800-400/60	1805	425	65	42, 45, 48

SIDE CABLE PERFORATED PANELS

Panels DP-VV are used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels.

DESCRIPTION:

- Application in free-standing racks 15 – 48U high
- Available widths – 150mm and 300mm
- Installation either directly in top and bottom frame of the rack (OPTIMAL/PREMIUM racks family only) or on holders of vertical extrusions (all free-standing rack series)
- Installation kit is included in delivery



DV-VV-42U/300

Code	Used in rack height (U)	
	panels width 150mm	panels width 300mm
DP-VV-15U/150	DP-VV-15U/300	15
DP-VV-18U/150	DP-VV-18U/300	18
DP-VV-21U/150	DP-VV-21U/300	21
DP-VV-24U/150	DP-VV-24U/300	24
DP-VV-27U/150	DP-VV-27U/300	27
DP-VV-30U/150	DP-VV-30U/300	30
DP-VV-33U/150	DP-VV-33U/300	33
DP-VV-36U/150	DP-VV-36U/300	36
DP-VV-42U/150	DP-VV-42U/300	42
DP-VV-45U/150	DP-VV-45U/300	45
DP-VV-48U/150	DP-VV-48U/300	48

SIDE CABLE GRIDS

These grids are used for managing cables in the sides of rack behind the 19" extrusions.

DESCRIPTION:

- Installation possible in racks 600, 800 and 1000mm deep
- The installation kit is part of delivery
- Cable ties are not part of delivery



HVMS-CH

Code	Dimensions in mm	Used in rack depths (in mm)
HVMS-CH-500	504x181	600, 800, 1000
HVMS-CH-600	604x181	800, 1000
HVMS-CH-700	704x181	800, 1000
HVMS-CH-800	804x181	1000

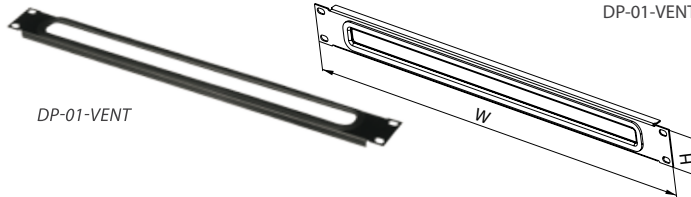
19" VENTED PANEL

Enables front to rear cable passage through empty positions in rack.

Code	H in U	Width
DP-01-VENT	1	19"

DESCRIPTION:

- 1U Height
- 19" Width
- powder coated RAL (standard RAL 9005)



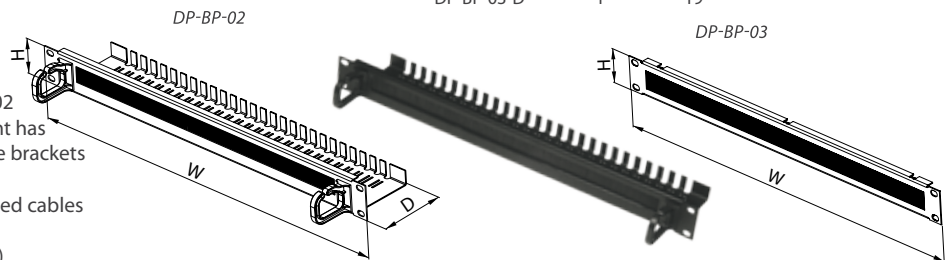
19" VENTED PANEL WITH BRUSH

Enables front to rear cable passage through empty positions in rack, whilst helping to minimize by-pass airflow.

Code	H in U	Width	Depth in mm
DP-BP-02	1	19"	85
DP-BP-03	1	19"	--
DP-BP-03-D	1	19"	--

DESCRIPTION:

- Types:
 - a) with brush DP-BP-03
 - b) with brush, divided - DP-BO-03-D
 - c) with brush and cable management DP-BP-02
- Vented panel with brush and cable management has cable management bar on back and two cable brackets 40x50mm on sides
- divided possible to use on an installed cables
- 1U Height
- powder coated RAL (standard RAL 9005)



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