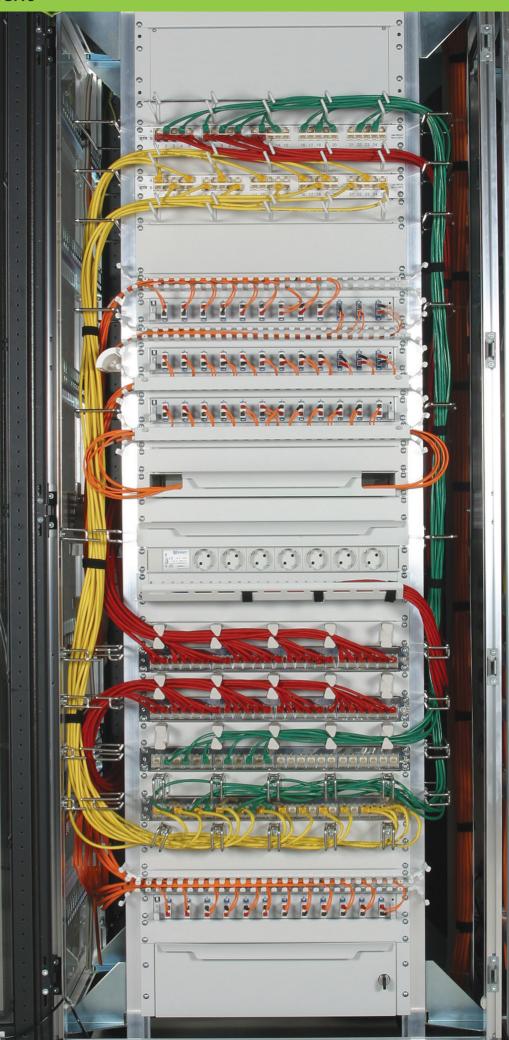
Knürr Cable management

Strong points	1.127
Cable Routing Board	1.129
Multifunctional Cable	
Routing Brace	1.130
Cable Router	1.130
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Jumpering Bracket	1.134
Cable Routing	
Components	1.135
Velcro Strip	1.137
Cable Cantilever	1.138



Knürr Cable Management Strong points

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



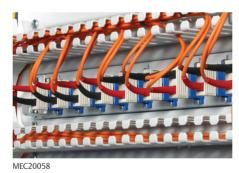


MEC20086



MEC20074

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.

Knürr Cable Management Strong points

Different components for fiberglass 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.

- 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.
- 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.
- on closer examination of the individual products. The cable routing multifunctional 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.
- 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.



1 MEC20082



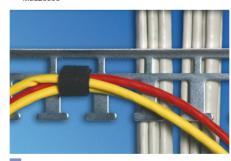




MEC20079



4 MEC20091



4 MEC20077



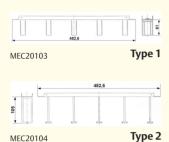
5 MEC20071



MEC00110



MEC20014



19" Cable Routing Board,

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 Front panel: sheet steel 1.0 mm, powdercoated, RAL 7035 light gray

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

Please also order front panel mounting material.

W	Н	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



MFC20041



MFC20102



MEC20076

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, powdercoated 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

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



MEC20081





MEC20058

Fiber Optic Cable Routing Board, 1 U

- For orderly cable routingFor 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 board

■ How supplied

In units

Note

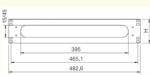
Please also order front panel mounting material and cover.

Not suitable for rack widths 600 mm and 700 mm (asymmetric)!

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



CUD00021



CUD00023



CUD00022

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

Final digit of order number .1: Powder-coated texture, RAL 7035, 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

Please also order front panel mounting

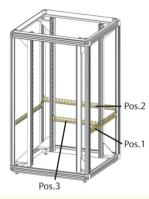
W	Н	D	U	For rack type	Order no.	UP
483	44		1	Powder-coated	01.103.231.1 🧕	6 unit
483	88		2	Powder-coated	01.103.232.1	3 unit



MFC20091



MEC20078



MIR88001

1 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

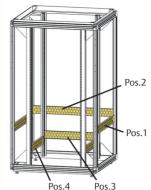
Finish

Zinc-passivated

Supply schedule

- 4 cable routing braces Mounting material
- How supplied
- Note

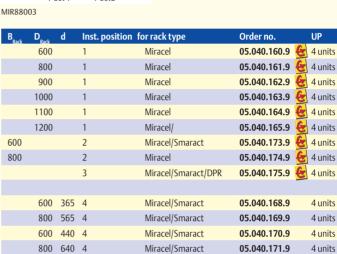
If required, please also order Velcro strip.



■ Finish Zinc-passivated

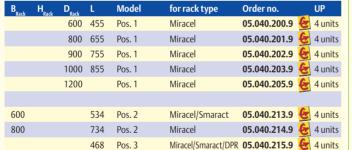
■ Supply schedule 4 multifunctional braces

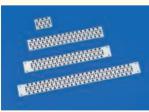
■ How supplied Flat-packed kit



Miracel/Smaract

Miracel/Smaract





MIR00089

Multifunctional brace

- For routing cables with cable ties
- For universal mounting optionsHoles 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



740 4

1000 740 4

900

MEC20045



MEC20074

Cascading

For orderly cable management and cable clamping

05.040.172.9

05.040.172.9

4 units

4 units

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

W	Н	D	Order no.	UP	
				05.040.088.9	1 set



MEC20088



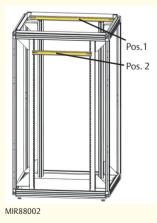
MEC20067

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
 - .1; RAL 7035 light gray
- .8; RAL 7021 dark gray
- Dimensions L 150 x W 28 mm
- Supply schedule1 cable trayMounting material
- How supplied
- Flat-packed kit
- Note If required, please also order Velcro strip.

W	Н	w	Model	Order no.	UP
	2000	100	For Miracel and DCM racks	05.040.251.X	1 unit
	2200	100	For Miracel and DCM racks	05.040.252.X	1 unit
	2000	150	For Miracel and DCM racks	05.040.254.X	1 unit
	2200	150	For Miracel and DCM racks	05.040.255.X	1 unit
	2000	200	For Miracel and DCM racks	05.040.257.X	1 unit
	2200	200	For Miracel and DCM racks	05.040.258.X	1 unit

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

W	Н	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/	01.110.719.9 🦞	1 unit
				DoubleProRack		

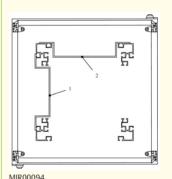


MFC20136









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
- Please also order the appropriate mounting material.

W/d								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

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	Н	D	U	d L	Model	Order no.	UP
						01 130 869 9	10 unit

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

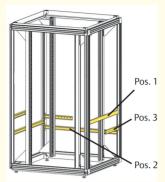
U = standard height unit 1 U = 44.45 mm UP = unit of packaging kg = weight Express item

Conversion: 1 mm = 0.03937 inch

1 kg = 2.2046 pound



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

Zinc-passivated

Supply schedule 4 extrusion rails Mounting material

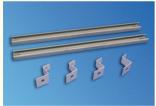
■ How supplied Flat-packed kit

Note

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



B _{Rack} D _{Ra}	ck W _{Rack}	Inst. position	for rack type	Order no.	UP
60		1	Miracel	05.040.180.9	4 units
80	0	1	Miracel	05.040.181.9	😉 4 units
90	0	1	Miracel	05.040.182.9	4 units
10	00	1	Miracel	05.040.183.9	🚱 4 units
12	00	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



MEC20034

Top-mounting for cable tray

- Fixing cable trays with C extrusion railsAny 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 brackets Mounting material
- How supplied Flat-packed kit

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

W	Н	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



ELM00086

U-Clamp

- For strain relief and individual routing of cables and lines
- Clamping range, 8-64 mm
- Material Steel/plastic
- Supply schedule 25 clamping saddles
- How supplied Flat-packed kit

W	Н	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



MEC20069

M5 Threaded Plate

- For use in conjunction with C extrusion rails
- Material/finish Flat rolled steel, 4.0 mm, zinc-passivated
- Supply schedule
- How supplied Flat-packed kit

W	Н	D	L	Order no. UP	
				05.040.077.9 😉 1 set	



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



How supplied In units

Please also order front panel mounting material and Velcro strip.

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



Cable tray between the racks

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

19"-Profil

■ Material/finish

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

■ Supply schedule 1 cable tray Mounting material

How supplied Flat-packed kit

Please also order Velcro strip

MEC20119

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



1 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!)



Sheet steel, 1.5mm, zinc-passivated



Supply schedule

1 radial limit Mounting material

How supplied Flat-packed kit

MEC20071

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

Cable Duct, Side

- For orderly cable management - For use in conjunction with the front

Cable rerouting with radial limiter,

Powder-coated texture, RAL 7035

panel, swivel

1 U (optional)

Sheet steel, 1.5mm

Mounting material

Flat-packed kit



MEC20135





MEC20151

W	Н	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 = lenath

Express item

Conversion: 1 mm = 0.03937 inch

1 kg = 2.2046 pound

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



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



Sheet steel, 1.5 mm, zinc-passivated

1 excess cable holder Mounting material

How supplied

Flat-packed kit



MEC20079

W	Н	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
- 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

Please also order front panel mounting material and Velcro strip

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



MEC20044



MEC20146

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

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



MEC20038



MEC20072

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

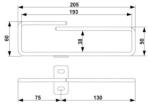
Finish

Zinc-passivated

Supply schedule

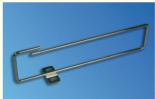
4 jumpering brackets Mounting material

How supplied Flat-packed kit

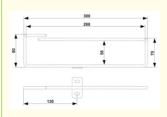


MEC20106

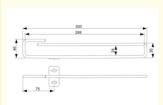
B _{Rack}	For rack type	Order no.	UP
From 800	Miracel	05.040.220.9 હ	4 units



MEC20039



MEC20107 Type 1



Type 2 MEC20116

K	_{ck} Type	For rack type	Order no.	UP
ab	800 Type 1	Miracel	05.040.221.9	
ab	700 Type 2	Miracel		
60	0 Type 2	Smaract	05.040.222.9	😉 4 units



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 Mounting material

How supplied Flat-packed kit



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

W	Н	D	U	d L	For rack type	Order no.	UP
				Mi	iracel	00.218.506.0	1 set



MEC20187

Quick-Clamp plastic jumperingbracket for T-slot mounting without tools

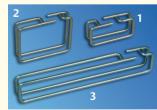
- Quick fixing without tools
- For orderly cable management
- Open version, no threading
- For fixing on T-slots at any position
- Material

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

- Color
- Supply schedule
- 10 plastic jumpering brackets

■ How supplied Flat-packed kit

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



MEC20035



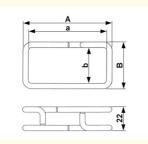
MEC20065

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

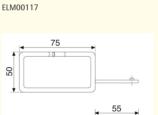
- Supply schedule 10 jumpering brackets Mounting material
- How supplied Flat-packed kit



MEC20108

Α	а	В	Ь	Model	Order no.	UP
82	72	43	33	Fig. 1	05.040.231.9	€10 units
222	212	30	20	Fig. 3	05.040.232.9	€10 units
102	92	82	72	Fig. 2	05.040.233.9	€10 units





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

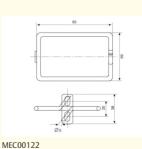
Zinc-passivated

- Supply schedule 4 jumpering brackets Mounting material
- How supplied Flat-packed kit

ELM00106

For rack type	Order no.	UP
DoubleProRack	05.040.226.9	4 units



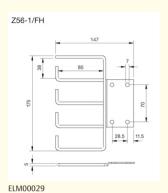


Jumpering Bracket

- For orderly cable managementOpen version, no threading
- Material/finish Round steel, d = 5 mm
- Finish Zinc-passivated
- Supply schedule 4 jumpering brackets Mounting material
- How supplied Flat-packed kit

Model Order no.	UP	
95x60	05.040.225.9 & 4 ur	nit





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

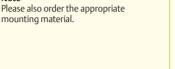
■ Material/finish

Round steel, d = 5 mm, zinc-passivated

Supply schedule 2 jumper tiebars

■ How supplied Flat-packed kit

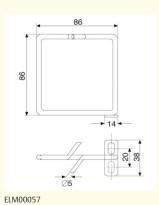
Please also order the appropriate



Order no. d L **01.117.033.7 &** 2 units



MIR00183



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 Mounting material

■ How supplied Flat-packed kit

From 800 86x86 05.040.224.9 & 4 units

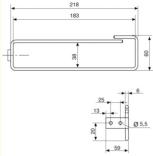
Dimensions in mm: W = Width

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





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

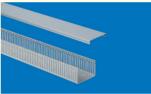
Zinc-passivated

Supply schedule

4 vertical jumpering brackets Mounting material

■ How supplied Flat-packed kit

Model	Order no.	UP
218x60	05.040.223.9 🤡	4 units



ELM00004

MFC00123



Jumper 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



W	Н	D	U	d L	Model	Order no.	UP
				2000		01 117 098 3	1 unit



LIG00068



HG00021

Fiber Optic Cable Router

- 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-VO)

Supply schedule

1 pair of fiber optic cable routers Mounting material

■ How supplied Flat-packed kit

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



ELM00025



Cable Routing Ring

- For orderly cable managementOpen 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	Н	D	U	d L	Model	Oraci noi	UP
					54 x 118 mm	01.312.207.9	5 units



MEC20158

Cable Routing Set

- For orderly cable management
- Dimensions:
- External 61 mm x 42.5 mm Internal - 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	
	Forc	ut-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



Supply schedule 1-meter or 25-meter Velcro strip

■ How supplied By the meter

MEC20147

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



ELM00049



ELM00050

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
- How supplied Flat-packed kit

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

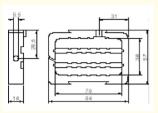
d = useful depth L = lenath

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



MEC20017



ELM00024

Cable Clamping Frame

- For orderly cable management
- Open version, no threading
- Cross-section for cable routing, variable with removable routing ribs
- Can be expanded by adding on further cable clamping frames
- Optional mounting: lengthwise or across the width

Material Polypropylene, black

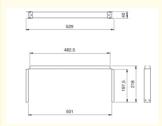
Supply schedule
1 cable clamping frame
Mounting material

■ How supplied Flat-packed kit

W	Н	D	U	d L	Model	Order no.	UP
						01.113.153.9	1 unit



MIR00086



MIR00182

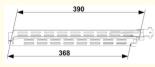
Cable Clamping, Swing **Frame**

- Absolutely recommended when using swing frame
- For cable strain relief
- For relief on plug-type connections Prevents damage to the cable braided shielding
- Supply schedule 2 mounting brackets
- 1 extrusion rail Mounting material

W	H	D	U	d L	Model	Order no.	UP
						01.113.203.1	1 set



MEC20154



MFC88005

Cable Cantilever

- For easy mounting in rack/on the shelf; quick connecting to and disconnecting from shelf or rack with a spring clip
- Guarantees defined and kink-free cable management
- Minimum space requirement behind the pushed-in shelves, 40 mm

■ Material/finish Sheet steel, 1.5 mm, zinc-passivated

Supply schedule 1 cable cantilever girder Mounting material

■ How supplied Flat-packed kit

W	Н	D	U	d WxL	Туре	Order no.	UP
					2-piece	05.040.096.0	😉 1 unit



CUD00025

Cable Clamping Bracket / **Earthing Bracket**

- For 19" cable routing panel, 2 HUFor strain relief of cables and plug-type
- connections with cable ties
- Material

Sheet steel, 1.5 mm

Zinc-passivated, Zn 10c, white

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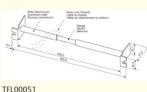
■ Supply schedule 1 earthing bracket Mounting material

CUD00024

W	Н	D	U	d L	Model	Order no.	UP
						01.117.035.7	1 unit



TEL00034



Cable Roller

- For 19" racks and enclosures
- Reduces the cable load on slot-in
- Orderly cabling
- Prevents cable-sagging
- Material Sheet steel, 1.5 mm
- Supply schedule 1 cable roller

W	Н	D	U	d L	Model	Order no.	UP
						05.043.327.9	1 unit

H = Height D = Depth

h = installation height

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

d = useful depth L = length



Conversion: 1 mm = 0.03937 inch