

# Interior installation

## Rail systems

### C rails

#### for TS, SE

For attaching cables and lines.

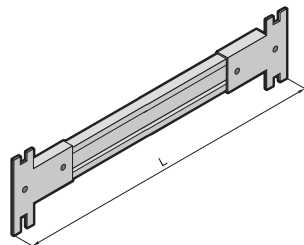
#### Material:

- Sheet steel

#### Supply includes:

- 4 C rails
- 8 brackets
- Assembly parts

For enclosure width/depth mm	Length (L) mm	Packs of	Model No.
600	600	4 pc(s).	9660.210
800	800	4 pc(s).	9660.220



### Punched section with mounting flange

#### for coupling section

For assembling a Maxi-PLS or Flat-PLS busbar system directly beneath or above the circuit-breaker. This punched section with mounting flange may be used without conflict in conjunction with the compartment side panel modules. It is attached to the outer level of the TS 8 enclosure system, but the PS punchings support a mounting level as in the roof or base frame, thereby facilitating the use of busbar system attachment for the roof/base section.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

For enclosure width/depth mm	Packs of	Model No.
600	2 pc(s).	9674.056
800	2 pc(s).	9674.058



### Mounting plates

#### Locatable

on the

- Vertical TS, SE enclosure section
- TS punched section w. mounting flange, 17 x 73 mm

#### Material:

- Sheet steel

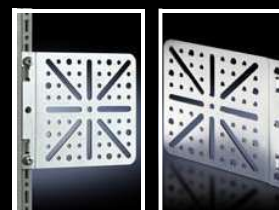
#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8612.400



### Mounting plates

#### Screw-fastened, large

On all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

#### Material:

- Sheet steel

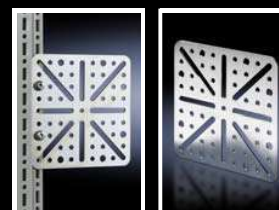
#### Surface finish:

- Zinc-plated

#### Supply includes:

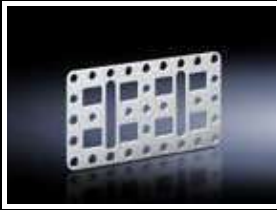
- Assembly screws

Packs of	Model No.
4 pc(s).	8612.410



# Interior installation

## Rail systems



### Mounting plates

**Screw-fastened, small**

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly screws

Packs of	Model No.
4 pc(s).	4532.000



### Mounting plates

**with integral top hat rail, for TS, TS IT, SE**

For direct snap-mounting of components such as speed control, enclosure internal thermostat and hygrostat.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

Packs of	Model No.
1 pc(s).	7526.964



### Mounting bracket

May be screw-fastened onto all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

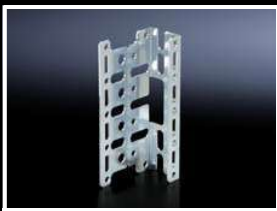
**Supply includes:**

- Assembly screws

Packs of	Model No.
4 pc(s).	4597.000

**+** **Accessories:**

- Screws, see page 737
- Cable ties for fast assembly 2597.000, see page 785



### Mounting bracket

**for interior installation**

For installing punched sections with mounting flanges and support strips in

- Comfort Panel horizontal/vertical from 74 mm installation depth

or for installing in:

- Optipanel from an installation depth of 100 mm

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

Packs of	Model No.
4 pc(s).	6205.100



		Comfort Panel/Optipanel	Page
		Front panel width 482.6 mm (19")	
Punched section with mounting flange	horizontal	8612.150	717
	vertical		
Support strips	horizontal	4695.000	720
	vertical		

# Interior installation

## Assembly components

### Snap-on nut TS

Metric thread for vertical TS, SE enclosure section. To install, insert into slot and clip into position. The snap-on nut is then secure. As the screw is tightened, it is securely tensioned against the section, and potential equalisation is automatically created.

#### Installation options:

- On the vertical TS, SE enclosure section and on the horizontal SE enclosure section (top, in the width)
  - With metric thread M6 or M8
  - The alternative to metal screws
  - Particularly well-suited for dynamically loaded connections

#### Material:

- Precision-cast stainless steel

#### Accessories for interior installation

- 1 Support rails, see page 724
- 2 Cable clamp rails, see page 783
- 3 C rails 30/15, see page 723
- 4 System support rails, see page 724
- 5 TS punched rails 25 x 38 mm, see page 719

Thread	Packs of	Model No.
M6	20 pc(s).	8800.806
M8	20 pc(s).	8800.808



#### Also required:

- Multi-tooth screw M6 x 12 or M8 x 12, see page 737



### Adaptor bracket TS

For external mounting of

- System lights
- Cable ducts

on the vertical TS enclosure section and on the horizontal SE enclosure section (top, in the width)

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly screws

Packs of	Model No.
6 pc(s).	8800.360



# Interior installation

## Assembly components



### Mounting bracket TS

Offers variable mounting options for the punched rail 23 x 23 mm, e.g. for supporting external surfaces or creating an additional internal level.

**Material:**

- Die-cast zinc

**Supply includes:**

- 24 screws 5.5 x 13 mm

Packs of	Model No.
24 pc(s).	8800.370

**+** **Accessories:**

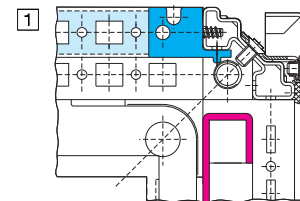
- U nuts (recommendation: M6), see page 735

**Installation options:**

- On the vertical TS, SE enclosure section
  - flush with the outer edge of the enclosure or
  - flush with the enclosure clearance width

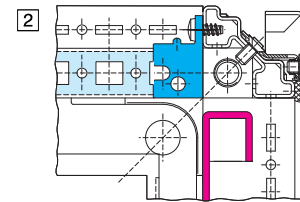


- 1** Support of external surfaces with two mounting options:
- Without mounting plate (photo)
  - With mounting plate (drawing)

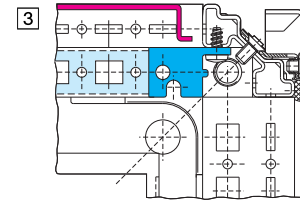


Two installation options for the inner mounting level:

- 2** If there is no divider panel fitted



- 3** With a divider panel fitted, and without or with a mounting plate in a set forward position



### Mounting bracket PS

For variable attachment of punched rail 23 x 23 mm.

**Installation options:**

- Optionally flush with:
  - Outer enclosure edge or
  - Enclosure clearance width
- On the vertical TS, SE enclosure section via
  - Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

**Material:**

- Die-cast zinc

**Supply includes:**

- 1 pc(s). =
- 1 mounting bracket,
- 1 screw M6 x 12 mm,
- 1 cage nut M6

Packs of	Model No.
24 pc(s).	4182.000

**!** **Also required:**

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737

# Interior installation

## Assembly components

### Angle bracket PS

For quick attachment of punched rails 23 x 23 mm.

#### Installation options:

- On the vertical TS, SE enclosure section via  
– Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

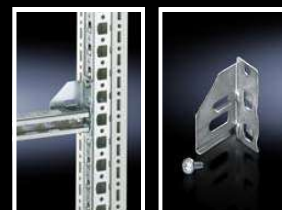
- 1 pc(s). =  
1 angle bracket, left,  
1 angle bracket, right,  
2 metal screws 5.5 x 13 mm

Packs of	Model No.
12 pc(s).	4181.000



#### Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737



### Support bracket TS

For the attachment of

- Punched sections without mounting flanges  
23 x 73 mm or
- Punched rails 23 x 23 mm

#### Installation options:

- On the vertical TS, SE enclosure section  
– on a 25 mm pitch pattern  
– in 2 mm increments.
- On the horizontal SE enclosure section,  
in the width, top

#### Material:

- Die-cast zinc

#### Supply includes:

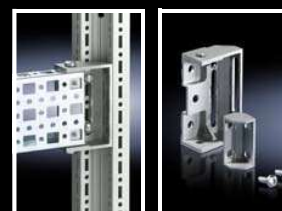
- 1 pc(s). =  
1 support bracket,  
1 stay,  
3 metal screws 5.5 x 13 mm

Packs of	Model No.
6 pc(s).	8800.330



#### Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737



### Support bracket PS

For the attachment of

- Punched sections without mounting flanges  
23 x 73 mm or
- Punched rails 23 x 23 mm

#### Installation options:

- On the vertical TS enclosure section via  
– Snap-on nut 8800.806, see page 729,  
or  
– Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section,  
top in the depth
- On enclosures and rails with rectangular system  
punching 12.5 x 10.5 mm

#### Material:

- Die-cast zinc

#### Supply includes:

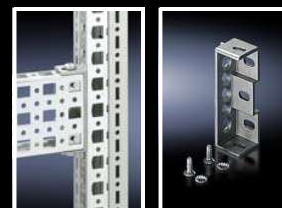
- 1 pc(s). =  
1 support bracket,  
2 countersunk screws,  
2 serrated lock washers

Packs of	Model No.
24 pc(s).	4183.000



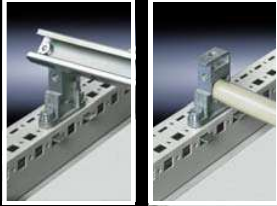
#### Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737
- Adaptor rail for PS compatibility  
(when mounting on the vertical enclosure  
section), see page 721



# Interior installation

## Assembly components



### Bracket/spacer

For the attachment of C rails, punched rails or cable clamp rails (angle section). On the sides, to accommodate square sections or tubes (Ø 20 mm). Attachment points with M8 thread.

#### Installation options:

- On the vertical TS, SE enclosure section via
  - Snap-on nut 8800.808, see page 729 or
  - Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

Packs of	Model No.
6 pc(s).	4199.000

#### Material:

- Die-cast zinc

#### Supply includes:

- 1 pc(s). =
- 1 bracket/spacer,
- 2 screws M8 x 16 mm,
- 2 spring lock washers,
- 2 cage nuts M8,
- 2 serrated lock washers,
- 2 metal screws



#### Accessories:

- Angle piece 4134.000, see page 733



### Angle bracket, C-section

#### for attachment to the horizontal section

For fast attachment to the horizontal enclosure section or for cascaded cable routing between two horizontal punched sections with or without mounting flanges.

#### Installation options:

- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm
- On the vertical TS, SE enclosure section via adaptor rails for PS compatibility

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Angle bracket, left
- Angle bracket, right
- Assembly parts

Packs of	Model No.
8 pc(s).	7091.100



#### Also required:

- C rails, see page 724



#### Assembly instruction:

- Two angle brackets are needed to secure each C rail



#### Accessories:

- TS punched section with mounting flange, 17 x 73 mm, see page 717
- Adaptor rail, see page 721

# Interior installation

## Assembly components

### Quick-assembly block

For a variety of installation options.

#### Installation options:

- On the vertical TS, SE enclosure section via
  - Snap-on nut 8800.808, see page 729 or
  - Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

Packs of	Model No.
12 pc(s).	4133.000

#### Material:

- Die-cast zinc

#### Supply includes:

- 12 quick-assembly blocks
- 12 threaded blocks M8
- 24 screws M8 x 12 mm
- 24 square nuts M8



### Angle piece

For assembling punched rails and mounting surfaces with a 45° incline.

#### Installation options:

- On the vertical TS, SE enclosure section via
  - Snap-on nut 8800.806, see page 729 or
  - Adaptor rail for PS compatibility, see page 721
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm

Packs of	Model No.
12 pc(s).	4134.000

#### Material:

- Angle pieces: Die-cast zinc
- Insulating pieces: Plastic

#### Supply includes:

- 1 pc(s) =
  - 1 angle piece,
  - 1 insulating piece,
  - 1 insulating screw,
  - 2 assembly screws,
  - 1 threaded block M8



### Frame connector piece

#### for TS punched rail 17 x 17 mm

Mounting part with integral M4 threads for attaching the TS punched rail 17 x 17 mm to the horizontal and vertical TS frame section (external level). The frame connector piece can be used as a self-holding construction aid in the TS pitch and fastened with a screw to the frame. Can also be used for fastening other sections with TS pitch.

#### Material:

- Die-cast zinc

#### Supply includes:

- Assembly parts

Packs of	Model No.
24 pc(s).	9673.901



# Interior installation

## Assembly components



### T-connector piece

#### for TS punched rail 17 x 17 mm

Mounting piece with integral M4 threaded holes for attaching the TS punched rail 17 x 17 mm

- to the horizontal and vertical TS chassis
- to TS punched rail 17 x 17 mm
- to the vertical TS frame section (internal level).

The T-connector piece can be used as a self-holding construction aid in the TS pitch and fastened with a screw to the frame. Can also be used for fastening other sections with TS pitch.

#### Material:

- Die-cast zinc

#### Supply includes:

- Assembly parts

Packs of	Model No.
24 pc(s).	9673.903



### Corner connector

#### for TS punched rail 17 x 17 mm

Mounting part with integral M4 threads for connecting two TS punched rails 17 x 17 mm at an angle of 90° across the corner. Required for building the auxiliary construction for the busbar space separation.

#### Material:

- Die-cast zinc

#### Supply includes:

- Assembly parts

Packs of	Model No.
10 pc(s).	9673.902



### Universal bracket

For the installation of

- Enclosure lights in
  - Compact enclosures AE
- Door-operated switches in
  - Compact enclosures AE
  - TopConsole system TP
- Cable conduit holders 2593.000 and 2591.000 in
  - Compact enclosures AE
- Support rails for terminals in
  - Command panels and command panel housings with door

Mounting screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

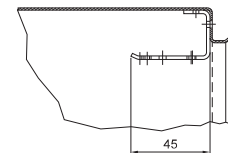
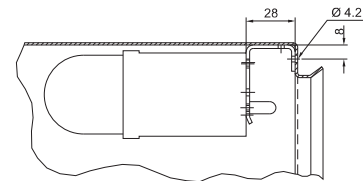
#### Material:

- Sheet steel, zinc-plated

#### Supply includes:

- Assembly parts

Packs of	Model No.
6 pc(s).	2373.000





# Interior installation

## Assembly components

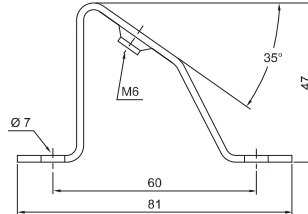
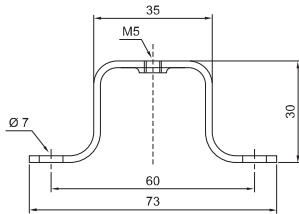
### Rail mounting bracket

For individual rail mounting.

**Material:**

- Sheet steel, zinc-plated

Rail mounting bracket	Packs of	Model No.
Flat	20 pc(s).	2365.000
Inclined	20 pc(s).	2366.000



### Mounting block

for AE

As an accessory for additional interior installation, e.g. mounting of cable ties, PS punched rails, top hat rails and C rails (e.g. for a second pair of mounting angles).

**Supply includes:**

- Assembly parts

Packs of	Model No.
20 pc(s).	2574.000



### U nuts

for

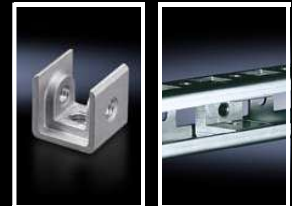
- Punched rail 23 x 23 mm
- Punched section without mounting flange, 23 x 73 mm
- Punched section without mounting flange, 45 x 88 mm
- Punched section with mounting flange, 23 x 73 mm

For mounting punched rails and punched sections without mounting flanges on angle brackets, mounting brackets and support brackets, we recommend U nuts with M6 thread (4179.000).

Thread	Packs of	Model No.
M4	20 pc(s).	4119.000
M5	20 pc(s).	4157.000
M6	20 pc(s).	4179.000
M8	20 pc(s).	4180.000

**+** **Accessories:**

- Multi-tooth screws M6 x 12 mm, for 4179.000, see page 737



# Interior installation

## Assembly components

### Cage nuts/threaded blocks

#### Installation options:

On enclosures and rails with rectangular system punching 12.5 x 10.5 mm, such as

- TS, SE enclosure section,
  - vertically, via adaptor rail for PS compatibility
  - TS horizontally, direct
- SE horizontally, bottom, direct
- SE horizontally, top (in the depth only), direct
- Punched rails 23 x 23 mm
- Punched section without mounting flange, 23 x 73 mm
- Punched section without mounting flange, 45 x 88 mm
- Punched section with mounting flange, 23 x 73 mm



#### Possible alternative:

- On the vertical TS enclosure section TS snap-on nuts, see page 729



#### Cage nut

The compression spring, designed as an insertion aid, ensures reliable mechanical and electrical connection in the system punchings.

Thread	Packs of	Model No.
M5	50 pc(s).	<b>4166.000</b>
M6	50 pc(s).	<b>4164.000</b>
M8	50 pc(s).	<b>4165.000</b>



#### Threaded block

With snap-off insertion aid, die-cast zinc.

Thread	Packs of	Model No.
M6	50 pc(s).	<b>4162.000</b>
M8	50 pc(s).	<b>4163.000</b>



#### Cage nut

The nuts are inserted from the same side as screwfastening takes place. Consequently, attachment points in the same height or width may also be used around corners. The spring cage also ensures electrical connection in the system punchings.

Thread	Packs of	Model No.
M6	50 pc(s).	<b>8800.340</b>
M8	50 pc(s).	<b>8800.350</b>



### Spring nut M5

For

- Comfort Panel from an installation depth of 74 mm
- Optipanel from an installation depth of 100 mm
- Compact Panel

The spring ensures reliable protection against unintentional displacement.

Other interior installation, e.g. with

- Mounting bracket 4597.000 (see page 728) or
- Mounting bracket components for interior installation 6205.100 (see page 728)

#### Material:

- Sheet steel, zinc-plated

Packs of	Model No.
50 pc(s).	<b>6108.000</b>

# Interior installation

## Assembly components

### Threaded inserts M6

#### for KS

For securing installed equipment to the moulded bosses in the door and in the enclosure rear panel. Screw length available for insertion: 8 mm.

Packs of	Model No.
20 pc(s).	1482.000



### Multi-tooth screws

M6 x 12 to fit:

- Snap-on nuts (8800.806)
- U nuts for punched rails (4179.000)
- Cage nuts (4164.000)
- Threaded blocks (4162.000)

M8 x 12 to fit:

- Snap-on nut (8800.808)

Multi-tooth drive for optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

Type of screw	Dimensions mm	Packs of	Model No.
Multi-tooth screws	M6 x 12	300 pc(s).	2504.500
	M8 x 12	300 pc(s).	2504.800
Metal multi-tooth screws	5.5 x 13	300 pc(s).	2486.500
Metal multi-tooth screws for stainless steel	5 x 13	300 pc(s).	2486.300
Self-tapping screws:			
■ Hex screws	M5 x 10	500 pc(s).	2504.000
■ Posidrive raised countersunk screws	M5 x 12	500 pc(s).	2488.000
■ Pan-head screws, posidrive	M5 x 12	500 pc(s).	2489.000
■ Multi-tooth pan-head screws	M5 x 12	500 pc(s).	2489.500
Self-tapping screws	ST 4.8 x 16	300 pc(s).	2487.000

### Metal multi-tooth screws

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.

### Self-tapping screws

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.

### Self-tapping screws

Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm

Length: 16 mm

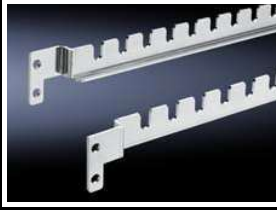
Usable length: 9.5 mm

Width across flats: 8 mm



# Interior installation

## Assembly components



### TS adaptor rail for wiring systems

Adaptor rail for the Lütze LSC wiring system

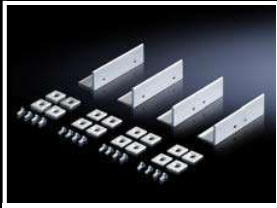
**Supply includes:**

- 6 adaptor rails,
- 24 spring lock washers,
- 24 metal screws 5.5 x 13 mm

**Note:**

- Mounting parts for the LSC wiring system not included with the supply

For enclosure depth mm	Packs of	Model No.
500	6 pc(s).	<b>8800.150</b>
600		<b>8800.160</b>
800		<b>8800.180</b>



### Kit

#### for separate frame TS

Any TS 8 frame can be easily converted to a rack suitable for dismantling. To this end, the frame sections in the roof and base frame are separated, optionally in the width or depth. The four connection components are inserted into the frame section and screw-fastened. The external dimensions of the frame remain unchanged.

**Supply includes:**

- Assembly parts

**Note:**

- The maximum achievable IP protection category is restricted by separation of the frame

Packs of	Model No.
4 pc(s).	<b>7829.400</b>



# Interior installation

## Component shelves for frame attachment

### Component shelf for frame attachment

#### Enclosure width 600 and 800 mm for TS

For installation in enclosures **without** 482.6 mm (19") accommodation.

Max. depth of component shelves = Enclosure depth -100 mm

#### Technical specifications:

- Mounting bolts or mounting rails may be installed on a 25 mm pitch pattern in the enclosure depth
- Mounting hole for handles provided.
- Slotted component shelf

#### Material:

- Sheet steel

#### Surface finish:

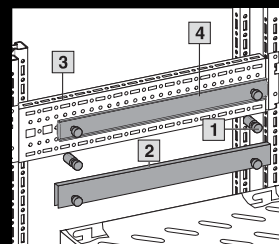
- Spray-finished

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts



- 1 Assembly bolts
- 2 Mounting rails
- 3 Installation kit
- 4 Telescopic slides

#### Enclosure width 600 mm

Load capacity kg (static surface load)	50	50	50	50	100	100	100	100
Component shelf width mm	471	471	471	471	471	471	471	471
Component shelf depth mm	400	500	600	700	400	500	600	700
Component shelf height mm	29	29	29	29	45	45	45	45
<b>Model No.</b>	<b>7164.035</b>	<b>7165.035</b>	<b>7166.035</b>	<b>7166.735</b>	<b>7464.035</b>	<b>7465.035</b>	<b>7466.035</b>	<b>7466.735</b>

#### Enclosure width 800 mm

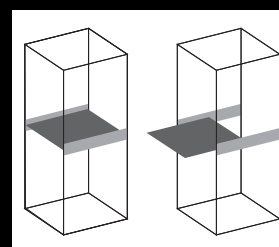
Load capacity kg (static surface load)	50	50	50	50	100	100	100	100
Component shelf width mm	671	671	671	671	671	671	671	671
Component shelf depth mm	400	500	600	700	400	500	600	700
Component shelf height mm	29	29	29	29	45	45	45	45
<b>Model No.</b>	<b>7184.035</b>	<b>7185.035</b>	<b>7186.035</b>	<b>7186.735</b>	<b>7484.035</b>	<b>7485.035</b>	<b>7486.035</b>	<b>7486.735</b>

#### ! Also required:

TS punched section with mounting flange, 17 x 73 mm, as installation kit for enclosure depth, see page 746	500	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050
	600	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060
	800	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080
	1000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000
	1200	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020

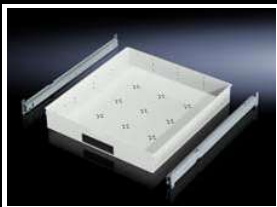
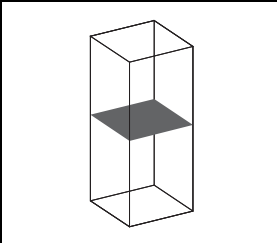
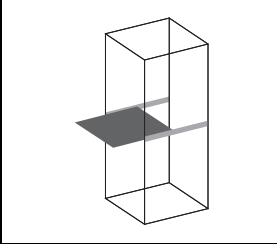
#### + Accessories:

Telescopic slides, see page 746	7061.000	7081.000	7161.000	7161.700	7064.000	7065.000	7066.000	7066.700
Handles for component shelves, see page 747	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 747							



# Interior installation

## Component shelves for frame attachment



### Component shelf, pull-out

#### for TS, SE, PC, IW

For direct mounting on the vertical TS enclosure section.

#### Load capacity:

- 30 kg surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7015

#### Supply includes:

- 2 telescopic slides.

For enclosures <sup>1)</sup>		Support area		Model No.
Width mm	Depth mm	Width mm	Depth mm	
600	600	465	545	<b>6902.960<sup>2)</sup></b>
600	800	465	745	<b>6902.980</b>

<sup>1)</sup> For enclosures without a mounting plate

<sup>2)</sup> May also be installed in 800 mm deep enclosures based on TS (pull-out rear attachment)

### Component shelf, static installation

#### for TS, SE, PC, IW, prepared for fan expansion kit

For direct mounting on the vertical TS enclosure section. Simply locate into 4 pre-fitted screws and secure.

#### Load capacity:

- 40 kg surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7015

#### Supply includes:

- Assembly parts

For enclosures <sup>1)</sup>		Support area		Model No.
Width mm	Depth mm	Width mm	Depth mm	
600	600	507	550	<b>8800.900</b>
600	800	507	750	<b>8800.910</b>

<sup>1)</sup> For enclosures without a mounting plate



#### Accessories:

- Fan expansion kit 7980.XXX, see page 533

### Drawer tray

#### Pull-out

For enclosures with TS frame construction in series IW, PC.

Width 600 mm and depth 600 – 800 mm.

Tray height: 83 mm

#### Load capacity:

- 40 kg surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- 2 telescopic slides.

Packs of	Model No.
1 pc(s).	<b>6902.700</b>

# Interior installation

## Component shelves for attachment to the 482.6 mm (19") section

### Component shelf, 482.6 mm (19") installation

#### for enclosures with cranked or L-shaped mounting angles front and rear

Depending on their depth, the component shelves have several attachment points, so the distance between the 482.6 mm (19") mounting angles is variable within certain limits. Each component shelf secured in this way can be retrospectively upgraded to full withdrawal using telescopic slides. For this purpose, the telescopic slides are screw-fastened in place of the spacers.

**Load capacity:**  
– 50 kg surface load, static

**Material:**  
– Sheet steel

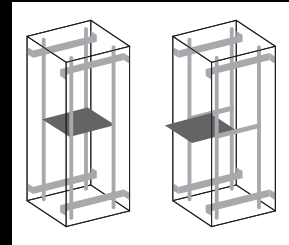
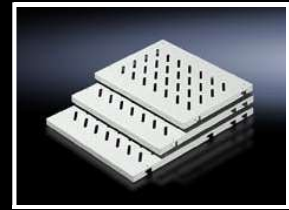
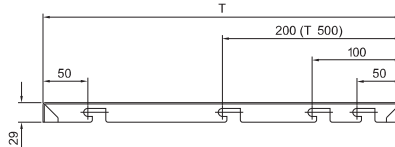
**Surface finish:**  
– Spray-finished

**Colour:**  
– RAL 7035

**Supply includes:**  
– Assembly parts

**! Also required:**

- Adaptor for L-shaped mounting angles 7827.300, see page 746
- Installation kit, depth variable 7063.850, for flexible mounting on L-shaped mounting angles, see page 745



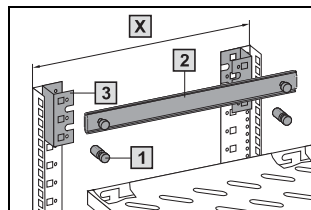
Component shelf width mm	409	409	409	409
Component shelf depth mm	400	500	600	700
Distance between levels (X)	348/398	348/448/498	448/548/598	548/648/698
	<b>7144.035</b>	<b>7145.035</b>	<b>7145.635</b>	<b>7145.735</b>

**+ Accessories:**

Telescopic slides for 50 kg, see page 746	7061.000	7081.000	7161.000	7161.700
Handles for component shelf, see page 747	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 747			

**For TS:**  
**Note for installation in network enclosures based on TS, L-shaped mounting angle:**

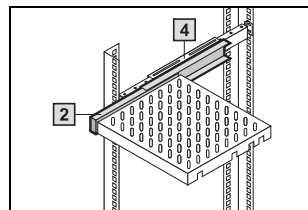
If L-shaped mounting angles are used, adaptor 7827.300 is required, see page 746.



- 1** Spacers
- 2** Telescopic slides
- 3** Adaptors
- X** Distance between levels

**For TS, 482.6 mm (19") system punchings:**  
**Note regarding flexible installation between two L-shaped mounting angles:**

May be mounted directly on the 482.6 mm (19") system punchings using the depth-variable installation kit, 7063.850, see page 745.



- 2** Telescopic slides
- 4** Installation kit, depth-variable

# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system



### Component shelf, static installation

#### 482.6 mm (19"), depth-variable for TS IT, TE

For static installation between two 482.6 mm (19") mounting levels.

- Contact width: 489 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Supply includes:**

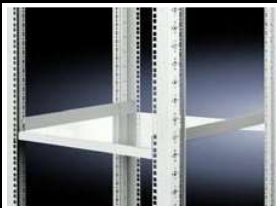
- Assembly parts

Distance between levels mm	Load capacity, static kg	Height U	Packs of	Model No.
400 – 600	50	½	1 pc(s).	<b>5501.655</b>
600 – 900	50	½	1 pc(s).	<b>5501.665</b>
400 – 600	100	1	1 pc(s).	<b>5501.695</b>
600 – 900	100	1	1 pc(s).	<b>5501.705</b>



**Accessories:**

- Cable support, hinged, see page 747



### Component shelf, static installation

#### for TE

The component shelf is attached directly at the side to the front and rear 482.6 mm (19") mounting frames for TE.

**Material:**

- Sheet steel

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

**Note:**

- Not suitable for combination with telescopic slides

Contact surface, width mm	505
Contact surface, depth mm	410
Distance between 482.6 mm (19") levels mm	495
Load capacity (static) N	300
Packs of	1 pc(s).
<b>Model No.</b>	<b>7000.620</b>



# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system

### Component shelf, pull-out

#### 482.6 mm (19") for TS IT, TE

For mounting between two 482.6 mm (19") mounting levels.

- Contact width: 419 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly from the enclosure front
- Self-locking
- Full withdrawal

#### Material:

- Sheet steel

#### Surface finish:

- Component shelf: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

#### Colour:

- Component shelf: RAL 9005

#### Supply includes:

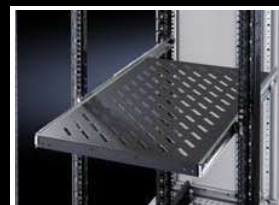
- Component shelf, slotted
- Telescopic slide with mounting kit
- Assembly parts

Distance between levels mm	Load capacity, static kg	Height U	Depth mm	Packs of	Model No.
400–600	50	1	500	1 pc(s).	<b>5501.675</b>
600–900	50	1	700	1 pc(s).	<b>5501.685</b>
400–600	100	1½	500	1 pc(s).	<b>5501.715</b>
600–900	100	1½	700	1 pc(s).	<b>5501.725</b>



#### Accessories:

- Handle for component shelf 5501.730, see page 747
- Cable support, hinged, see page 747



### Component shelf, pull-out

#### for TE

For mounting between two 482.6 mm (19") mounting angles.

#### Benefits:

- Depth-variable to adjust to the distance between 482.6 mm (19") levels in a 25 mm pitch pattern
- Full withdrawal

#### Material:

- Base: Sheet steel

#### Surface finish:

- Base: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

#### Colour:

- RAL 7035

#### Supply includes:

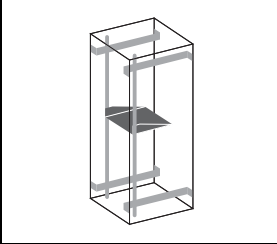
- Component shelf, vented
- Telescopic slides with mounting kit

Contact surface, width mm	409
Contact surface, depth mm	500
Distance between 482.6 mm (19") levels mm	395 – 645
Load capacity (static) N	500
Packs of	1 pc(s).
<b>Model No.</b>	<b>7000.625</b>



# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system



### Component shelf 1 U, static installation

**482.6 mm (19")  
for one 482.6 mm (19") mounting level**

The ideal support surface for small active components such as modems or mini-hubs.

**Load capacity:**  
– 10 kg surface load, static

**Material:**  
– Sheet steel

**Surface finish:**  
– Spray-finished

**Colour:**  
– RAL 7035

**Note:**  
– Usable height inside the U approx. 35 mm

Component shelf depth mm	Packs of	Model No.
140	1 pc(s).	<b>7119.140</b>

**! Also required:**

- Cage nuts, see page 815
- Screws, see page 737



### Component shelf 2 U, static installation

**482.6 mm (19")  
for one 482.6 mm (19") mounting level**

The ideal support surface for small active components such as modems or mini-hubs.

**Load capacity:**  
– 25 kg surface load, static

**Material:**  
– Sheet steel

**Surface finish:**  
– Spray-finished

Component shelf depth mm	Colour RAL	Packs of	Model No.
250	7035	1 pc(s).	<b>7119.250</b>
	9005	1 pc(s).	<b>5501.615</b>
400	7035	1 pc(s).	<b>7119.400</b>
	9005	1 pc(s).	<b>5501.625</b>

**! Also required:**

- Cage nuts, see page 815
- Screws, see page 737

# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system

### Component shelf, pull-out, 2 U

#### for one 482.6 mm (19") mounting level

For simple, front installation of wall-mounted or floor-standing enclosures with at least one 482.6 mm (19") mounting level. This complete set comprises the pre-configured variant including telescopic slides, moulded handle, flange and locking pins.

#### Benefits:

- Simple tool-free assembly
- Full withdrawal
- Self-locking

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Component shelf, pre-configured
- Assembly parts

Contact surface, width mm	Contact surface, depth mm	Load capacity (static) N	Packs of	Model No.
430	300	250	1 pc(s).	<b>5501.635</b>



### Installation kit, depth-variable

#### For component shelves, 482.6 mm (19") installation

Depending on the distance between the two 482.6 mm (19") mounting levels, the installation kit is screw-fastened in the depth between the L-shaped 482.6 mm (19") mounting angles or mounting frame.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Packs of	Model No.
550 – 850	2 pc(s).	<b>7063.850</b>



# Interior installation

## Installation kits/accessories for component shelves



### TS punched section with mounting flange, 17 x 73 mm

#### as installation kit for component shelves

Simply locate and secure. One pack is sufficient for 2 component shelves.

#### Load capacity:

- 100 kg surface load, static

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Installation in enclosure depth mm	Packs of	Model No.
500	4 pc(s).	<b>8612.050</b>
600	4 pc(s).	<b>8612.060</b>
800	4 pc(s).	<b>8612.080</b>
1000	4 pc(s).	<b>8612.000</b>
1200	4 pc(s).	<b>8612.020</b>



### Adaptor for L-shaped mounting angles

#### for TS

For mounting component shelves and slide rails on L-shaped mounting angles.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Packs of	Model No.
4 pc(s).	<b>7827.300</b>



### Telescopic slides

#### For component shelf for frame attachment and component shelf, 482.6 mm (19") configuration

Static component shelves are easily converted to full withdrawal, by exchanging the existing assembly bolts or mounting rails (heavy-duty version) for telescopic slides.

#### Technical specifications:

- For installation and locking on a 25 mm pitch pattern in the enclosure depth

#### Material:

- Sheet steel

#### Surface finish:

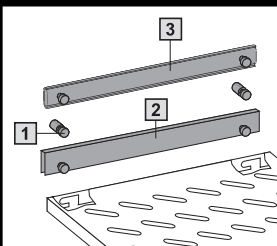
- Zinc-plated

#### Load capacity 50 kg

For component shelf depth mm	Packs of	Model No.
400	2 pc(s).	<b>7061.000</b>
500	2 pc(s).	<b>7081.000</b>
600	2 pc(s).	<b>7161.000</b>
700	2 pc(s).	<b>7161.700</b>

#### Load capacity 100 kg

For component shelf depth mm	Packs of	Model No.
400	2 pc(s).	<b>7064.000</b>
500	2 pc(s).	<b>7065.000</b>
600	2 pc(s).	<b>7066.000</b>
700	2 pc(s).	<b>7066.700</b>



- 1 Assembly bolts
- 2 Mounting rails
- 3 Telescopic slides

# Interior installation

## Accessories for component shelves

### Cable support

#### Hinged, with quick-release fastener

For secure routing of connection cables from the component shelf to the clamping point. The attachment may be released on both sides thanks to the quick-release fastener.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

For enclosure depth mm	Packs of	Model No.
≤ 600	1 pc(s).	7163.500
> 600	1 pc(s).	7163.550

**Note:**

- Max. depth of component shelves = Enclosure depth -100 mm



### Cable support

#### Hinged, with anti-kink device and quick-release fastener

For secure routing of connection cables from the component shelves with telescopic pull-out to the clamping point. Kink-free cable routing in the central part via mobile chain links. The attachment may be released on both sides, thanks to the quick-release fastener.

**Material:**

- Sheet steel, zinc-plated
- Centre part: Plastic

**Supply includes:**

- Assembly parts

For enclosure depth mm	Packs of	Model No.
≤ 600	1 pc(s).	7163.560
> 600	1 pc(s).	7163.565

**Note:**

- Max. depth of component shelves = Enclosure depth -200 mm



### Handles

#### for pull-out component shelves

The component shelves are prepared for the attachment of handles.

**Material:**

- Die-cast zinc

**Surface finish:**

- Spray-finished

**Colour:**

- Silver grey

**Supply includes:**

- Assembly parts

Packs of	Model No.
2 pc(s).	5501.730



### Fastening bolts

#### for slotted component shelves

For non-slip attachment of your components. The bolts are screwed into the longitudinal slots of the component shelf support surface. Consequently, they are infinitely adjustable and can be adapted to suit any appliance.

Packs of	Model No.
4 pc(s).	7115.000



# LED system light – Sensationally bright



## Optimum illumination

- Innovative LED technology for even more light into the very last corner
- Intelligent lighting, tailored to the geometry of the enclosure, thanks to a special optical cover with Fresnel structure
- Optical cover with two different Fresnel structures
- The cover is easily rotated – to adapt the light distribution to the current installation situation
- Enormous luminous intensity up to 1200 lumens, directed selectively into the enclosure

## Simple assembly

- Fast, tool-free assembly thanks to a latching hook system on a 25 mm pitch pattern of holes; simply latch and secure
- Optional screw-fastening also available, or opt for complete flexibility with a magnetic attachment freely positionable inside the enclosure
- May be fitted horizontally and vertically with no loss of space in the enclosure; existing rails and sections can simply be covered
- Lights with motion detectors are equipped with a rotating LED board as standard, allowing the direction of light to be perfectly adapted to any installation situation

## Flexible connection

- Rotating connectors support installation in the most confined spaces
- Simple through-wiring based on the plug & play system
- Variants with integral motion detectors eliminate the need for installing separate door-operated switches
- If additionally equipped with a socket, electricity will be available whenever it is needed for maintenance work
- Suitable for immediate, global use with wide-range voltage 100 – 240 V (AC) and 24 V (DC)



# LED system light



Connection accessories Page 752 Enclosure systems Page 67 Compact enclosures AE Page 58

### Benefits:

- Optimum illumination of the entire enclosure
- Optionally with clip, screw and magnetic attachment
- Equipment to suit every application

### Material:

- Plastic
- Aluminium

### Colour:

- Enclosure: RAL 7016

### Light colour:

- 4000 K (neutral white)

### Supply includes:

- Assembly screws




### Note:

- Connection accessories should be ordered separately
- Further information on country-specific versions can be found on the Internet

<b>Model No.</b>		<b>2500.310</b>	<b>2500.300</b>	<b>2500.210</b>	<b>2500.200</b>
Output (lumens)		1200	1200	900	900
Length (mm)		437	437	437	437
Motion sensor		■	■	–	–
Rated operating voltage	100 – 240 V AC	■	■	■	■
	24 V DC	–	–	–	–
Equipment	Socket	■	–	■	–
	90° rotating connector	■	■	■	■
	Adjustable light direction	■	■	–	–
	Adjustable light distribution	■	■	■	■
Protection class		II (all-insulated)			
Approvals	UL	–	■	–	■
	cUL	–	■	–	■
	CCC	–	■	–	■
	ENEC	■	■	■	■
Installation type	Screw-fastening	■	■	■	■
	Clip attachment	■	■	■	■
	Magnetic attachment to surfaces (accessory)	–	■	–	■
Connection options	Infeed	3-pole	3-pole	3-pole	3-pole
	Through-wiring	3-pole	3-pole	3-pole	3-pole
	Door-operated switch (accessories)	–	–	■	■
Mounting options	Enclosures with a 25 mm pitch pattern	Screw fastening/clip	Directly on the profile	Directly on the profile	Directly on the profile
	AE	Screw-fastening	With universal bracket		
<b>Accessories</b>					
Universal bracket		2373.000	2373.000	2373.000	2373.000
Mounting kit magnet		–	2500.480	–	2500.480
Door-operated switch		–	–	2500.460	2500.460
Door-operated switch, UL		–	–	–	2500.470
<b>Connection accessories</b>					
Infeed, 2-pole		–	–	–	–
Infeed, 3-pole		2500.400	2500.400	2500.400	2500.400
Infeed, 3-pole, ENEC, UL		–	2500.500	–	2500.500
Through-wiring, 2-pole		–	–	–	–
Through-wiring, 3-pole		2500.430	2500.430	2500.430	2500.430
Through-wiring, 3-pole, ENEC, UL		–	2500.530	–	2500.530

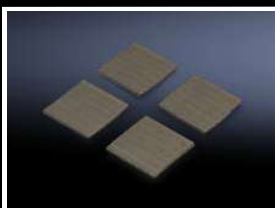
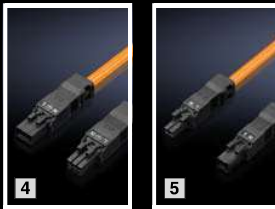
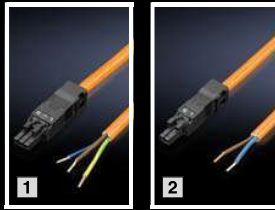


# LED system light

				
<b>Model No.</b>		<b>2500.220</b>	<b>2500.110</b>	<b>2500.100</b>
Output (lumens)		900	600	400
Length (mm)		437	337	262
Motion sensor		-	-	-
Rated operating voltage	100 – 240 V AC	-	■	■
	24 V DC	■	-	-
Equipment	Socket	-	-	-
	90° rotating connector	■	-	-
	Adjustable light direction	-	-	-
	Adjustable light distribution	■	-	-
Protection class		III (SELV)	II (all-insulated)	
Approvals	UL	■	-	-
	cUL	■	-	-
	CCC	-	■	■
	ENEC	■	■	■
Installation type	Screw-fastening	■	■	■
	Clip attachment	■	■	■
	Magnetic attachment to surfaces (accessory)	■	■	■
Connection options	Infeed	2-pole	2-pole	2-pole
	Through-wiring	2-pole	2-pole	2-pole
	Door-operated switch (accessories)	■	■	■
Mounting options	Enclosures with a 25 mm pitch pattern	Screw fastening/clip	Directly on the profile	Directly on the profile
	AE	Screw-fastening	With universal bracket	
<b>Accessories</b>				
Universal bracket		2373.000	2373.000	2373.000
Mounting kit magnet		2500.480	2500.480	2500.480
Door-operated switch		2500.460	2500.460	2500.460
Door-operated switch, UL		2500.470	-	-
<b>Connection accessories</b>				
Infeed, 2-pole		2500.410	2500.420	2500.420
Infeed, 3-pole		-	-	-
Infeed, 3-pole, ENEC, UL		-	-	-
Through-wiring, 2-pole		2500.440	2500.450	2500.450
Through-wiring, 3-pole		-	-	-
Through-wiring, 3-pole, ENEC, UL		-	-	-

# Interior installation

## LED system light



### Connection accessories

#### for LED system light

The following components can be used for time-saving and simple installation of the lights:



#### Accessories:

- Cable ties for quick assembly, see page 785

Connection cable for	ENEC	UL	Length mm	Packs of	Model No.	
					orange	black
[1] Infeed, 3-pole, 100 – 240 V AC	■	■	3000	1 pc(s).	<b>2500.500</b>	-
	■	-	3000	5 pc(s).	<b>2500.400</b>	-
[2] Infeed, 2-pole, 100 – 240 V AC	■	-	3000	5 pc(s).	<b>2500.420</b>	-
[3] Infeed, 2-pole, 24 V DC	■	-	3000	5 pc(s).	-	<b>2500.410</b>
[4] Through-wiring, 3-pole, 100 – 240 V AC	■	■	1000	1 pc(s).	<b>2500.530</b>	-
	■	-	1000	5 pc(s).	<b>2500.430</b>	-
[5] Through-wiring, 2-pole, 100 – 240 V AC	■	-	1000	5 pc(s).	<b>2500.450</b>	-
[6] Through-wiring, 2-pole, 24 V DC	■	-	1000	5 pc(s).	-	<b>2500.440</b>

### Door-operated switch

#### for LED system light

#### Supply includes:

- Assembly parts

Connection cable	ENEC	UL	Length mm	To fit	Packs of	Model No.
						black
Connection cable	■	-	600	230 V AC/24 V DC, 1 A	1 pc(s).	<b>2500.460</b>
	-	■	600			<b>2500.470</b>

### Mounting kit magnet

#### for LED system light

For sticking onto the rear of lights without a socket.

Packs of	Model No.
4 pc(s).	<b>2500.480</b>

# Interior installation

## System lights

### Universal light with integral motion detector

**Benefits:**

- Insulated plastic housing
- Efficient compact fluorescent tube
- Simple attachment of the light to the enclosure

**Material:**

- Plastic

**Supply includes:**

- Mounting clips



**Also required:**

- Connection accessories, see page 755



Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
18 W, 110 – 240 V, 50 – 60 Hz	Earthing-pin	343	95	55	<b>4155.110</b>	VDE
	-	343	95	55	<b>4155.010</b>	VDE
	-	343	95	55	<b>4155.510</b>	UL

### Courtesy light

**without door-operated switch**

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
14 W, 100 – 240 V, 50/60 Hz	Earthing-pin	452	117	50	<b>4139.140</b>	ENEC
18 W, 100 – 240 V, 50/60 Hz	Earthing-pin	682	117	50	<b>4139.180</b>	ENEC
30 W, 100 – 240 V, 50/60 Hz	Earthing-pin	987	117	50	<b>4139.300</b>	ENEC

**with door-operated switch**

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
14 W, 100 – 240 V, 50/60 Hz	Earthing-pin	452	117	50	<b>4139.150</b>	ENEC
18 W, 100 – 240 V, 50/60 Hz	Earthing-pin	682	117	50	<b>4139.190</b>	ENEC
30 W, 100 – 240 V, 50/60 Hz	Earthing-pin	987	117	50	<b>4139.350</b>	ENEC



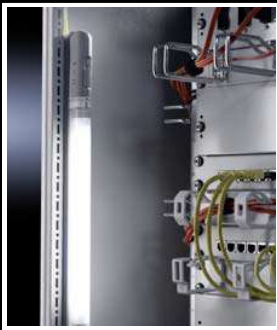
**Also required:**

- Connection accessories, see page 755



# Interior installation

## System lights



### Compact light

- Slimmer: Around 50% less height and depth and therefore around 75% less volume than conventional lights
- Door-operated switch can also be connected via a 2-pole connector

#### Colour:

- Similar to RAL 7035

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Compact light with clip and screw mounting kits, including assembly parts

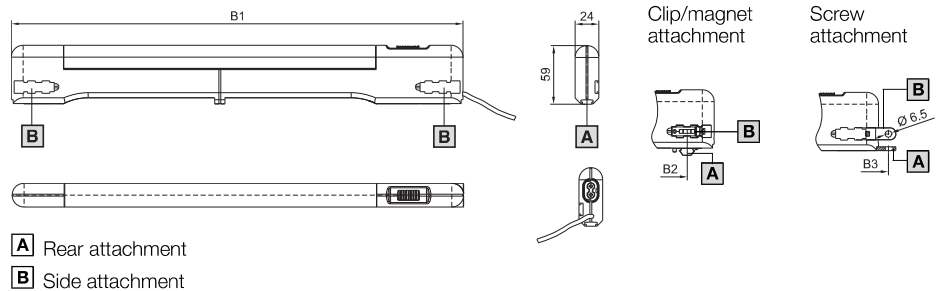


#### Accessories:

- Mounting kit magnet for compact light, see page 754
- Door-operated switch with connection cable, see page 755

Model No.	ENEC 24		-		4140.110		4140.120	
	cURus		4140.210 <sup>1)</sup>		4140.220 <sup>1)</sup>			
Rated voltage	100 – 240 V ±10% at 50 – 60 Hz				24 V (DC) ±10%			
Wattage	8		14		8		14	
Protection category	II (all-insulated)							
Width (B1) mm	455		705		455		705	
Mounting distance (B2) mm clip/magnet	400		650		400		650	
Mounting distance (B3) mm	475		725		475		725	
Connection cable	3 m (open end)							
Cover colour	yellow	grey	yellow	grey	yellow	yellow		
Rated current A								
- at 230 V	0.045 – 0.088		0.073 – 0.127		-		-	
- at 110 V	0.083 – 0.149		0.149 – 0.216		-		-	
- at 24 V (DC)	-		-		0.35		0.57	
Light	Fluorescent lamp T5							
Operating unit	Wide-range electronic ballast				Electronic ballast			
Circuit-breakers	Integral, on/off/door-operated switch mode							
Light cover	Transparent, grooved on the inside							
Cable deflector across rear	■	-	■	-	■	■		

<sup>1)</sup> Only for the North American market



### Mounting kit magnet

for compact light and LED compact system light

For reliable adhesion on all sheet steel surfaces.

Packs of	Model No.
2 pc(s).	4140.000

# Interior installation

## System lights

### Connection accessories

#### For universal light, courtesy light and compact light

The following components can be used for time-saving and simple installation of the lights:



#### Accessories:

- Cable ties for quick assembly, see page 785

Connection cable for	UL	Length mm	Packs of	Model No.	
				orange	grey
1 Power supply (with jack, without connector)	-	3000	5 pc(s).	4315.100	-
1 Power supply (with socket and strain relief, without connector)	■	3000	1 pc(s).	-	4315.150
2 Through-wiring (with socket and connector)	■	600	1 pc(s).	-	4315.450
2 Through-wiring/power supply via connection component 2507.500 (with socket and connector)	-	600	5 pc(s).	4315.400	-
	-	1000		4315.200	-
	-	4000		4315.600	-

Door-operated switch with mounting accessories	UL	Length mm	Technical specifications	Packs of	Model No.		
					orange	yellow	grey
3 With connection cable (not required for universal lights and courtesy lights with integral door-operated switch)	-	600	240 V, 6 A 125 V, 8 A	1 pc(s).	4315.520	-	-
		1000	24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4315.320	-	-
Without connection cable	■	-		1 pc(s).	4127.010		
4 With connection cable (for compact light)	-	600	240 V, 2.5 A 125 V, 2.5 A	1 pc(s).	-	4315.710	-
		600	24 V, 2.5 A 24 V (DC), 2.5 A	1 pc(s).	-	-	4315.720

#### Also required:

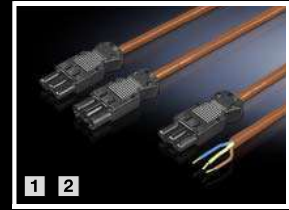
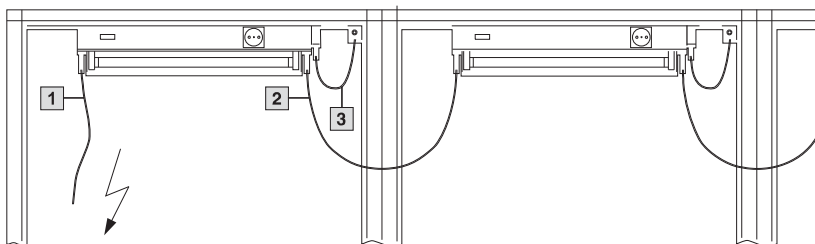
Mounting kit for installation in HP	7888.615
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Door-operated switch with toggle	UL	Technical specifications	Packs of	Model No.
5 Without connection cable, for TS enclosures with installed large swing frame. The toggle is actuated via the tubular door frame of the sheet steel door, or in the case of glazed doors, via an adaptor included with the supply.	■	240 V, 6 A 125 V (DC), 8 A 24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4127.210

Connection component with circuit-breaker 10 A	Packs of	Model No.
6 Reduce assembly costs: Power is supplied rapidly and reliably to system and workstation lights via connection cables. For independently configured cables, connector 2507.200 must be used. Connection component to be snapped onto the top hat rail.	1 pc(s).	2507.500

For self-assembly	Packs of	Model No.
7 Sockets for power supply/through-wiring	5 pc(s).	2507.100
Connectors for connection component/through-wiring	5 pc(s).	2507.200
T distributor with 2 sockets, 1 connector	5 pc(s).	2507.300
Connector for door-operated switch cable	5 pc(s).	2507.400

- 1 Connection cable for infeed
- 2 Connection cable for through-wiring/infeed
- 3 Door-operated switch with connection cable



# Interior installation

## System lights



### LED compact system light in 24 V (DC) version

- Max. EMC compatibility
- Protected, as it operates within the safety extra-low voltage range
- Door operated switch connection supported
- Integral through-wiring
- Vertically hinged light cone

#### Material:

- Light body: Extruded aluminium
- Light cover: Polycarbonate (halogen-free)
- Light ends: PC-ABS

#### Colour:

- Similar to RAL 7035

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- LED compact system light with clip and screw mounting kits, assembly parts

Model No.	4140.810	4140.820	4140.830	4140.840
Rated voltage	<b>24 V (DC) (±10%)</b>			
Number of LEDs	10	20	30	40
Protection category	<b>III (SELV)</b>			
Width (B1) mm	230	330	430	530
Mounting distance CLIP (B2) mm	175	275	375	475
Mounting distance, screw attachment (B3) mm	250	350	450	550
Rated current A <sup>1)</sup>	0.04	0.08	0.12	0.16
Switches	Integral on/off/door-operated switch mode			

<sup>1)</sup> Maximum buying up to a total rated current strength of 2 amps

#### ! Also required:

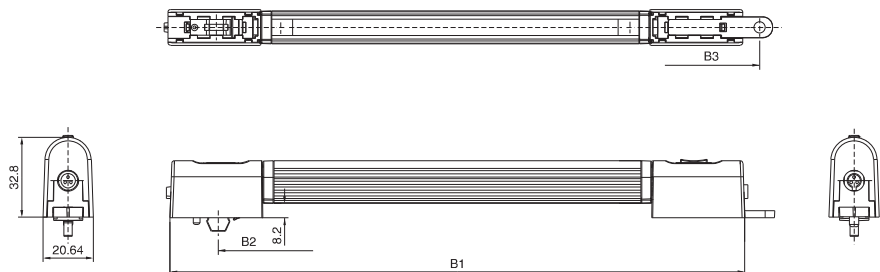
- LED connection cable, see page 757 or
- Door-operated switch with LED connection cable, see page 757

#### + Accessories:

- Mounting kit magnet for LED compact system light, see page 754
- Door-operated switch with LED connection cable, see page 757
- LED connection cable, see page 757
- Adaptor power pack, see page 757

#### Note:

- Only intended for use in enclosures and sealed cases!
- When using on customer-supplied power packs, it is important to obtain the requisite approvals depending on the application

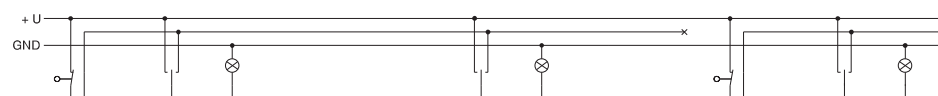
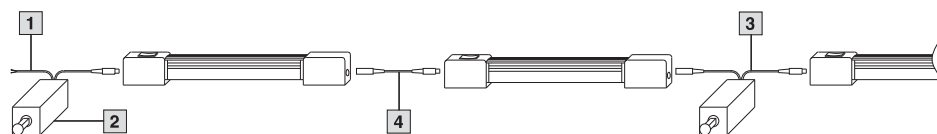


### Connection accessories for LED compact system light

	Connection cable	Length mm	Packs of	Model No.
1	LED connection cable	3000	1 pc(s).	4315.800
<b>Door-operated switch</b>				
2	With LED connection cable	3000	1 pc(s).	4315.810
3	With LED interconnecting cable	1000	1 pc(s).	4315.820
<b>Interconnecting cable</b>				
4	LED interconnecting cable	600	1 pc(s).	4315.830
		1000	1 pc(s).	4315.840
		3000	1 pc(s).	4315.850
<b>Adaptor power pack</b>				
5	Adaptor power pack	Technical specifications 100 – 230 V/24 V (DC), 1 A	1 pc(s).	4315.860

#### Layout diagram for LED compact system light 24 V (DC):

- 1 Connection cable
- 2 Door-operated switch with LED connection cable (open end/cable bush)
- 3 Door-operated switch with LED interconnecting cable
- 4 LED interconnecting cable for through-wiring



# Interior installation

## EMC



### EMC side panels

#### for TS

Automatic potential equalisation via assembly components, and a high level of EMC protection thanks to a special EMC seal.

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Aluminium zinc coated, powder-coated on the outside

#### Colour:

- RAL 7035

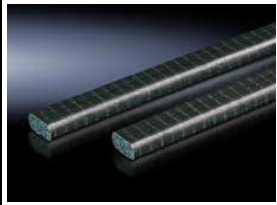
#### Protection category IP to IEC 60 529:

- IP 54

#### Supply includes:

- Assembly parts

For enclosures		Packs of	Model No.
Height mm	Depth mm		
2000	600	2 pc(s).	<b>8106.750</b>
2000	800	2 pc(s).	<b>8108.750</b>



### EMC baying seal

#### for TS

For baying enclosure systems. Seal with all-round, electrically conductive sheathing.

#### Supply includes:

- 3 seals, length 2 m each

Cross section mm	Model No.
6.3 x 6.3	<b>8800.690</b>



### EMC divider panel seal

This seal ensures optimum contact in bayed EMC enclosure systems and when using a zinc-plated divider panel.

#### Material:

- PU foam with electrically conductive sheathing

#### Supply includes:

- 1 roll (12.7 x 12.7 x 5300 mm)

Packs of	Model No.
1 pc(s).	<b>4348.000</b>



### Rail

#### for EMC shielding bracket and strain relief

Combined rail for strain relief and EMC contacting of inserted cables.

#### Design:

- C rail to accommodate cable clamps
- T-head cut-outs on a 40 mm pitch pattern for cable clamping using cable ties

#### Benefits:

- Additional contacting on the left or right of the rail via existing holes (9 mm diameter)
- Prepared for tool-free mounting of EMC shielding brackets

#### Installation options:

- On the horizontal/vertical TS, SE, PC enclosure section
- May also be fitted without a retaining bracket on a mounting plate

#### Material:

- Extruded aluminium section

#### Surface finish:

- Chrome-free passivated

#### Supply includes:

- 1 rail
- 2 retaining brackets
- Assembly parts

For enclosure width mm	Length mm	Packs of	Model No.
600	553	1 pc(s).	<b>2388.650</b>
800	753	1 pc(s).	<b>2388.850</b>
1000	953	1 pc(s).	<b>2388.050</b>
1200	1153	1 pc(s).	<b>2388.125</b>



#### Also required:

- EMC shielding bracket, see page 759
- Cable clamps, see page 784



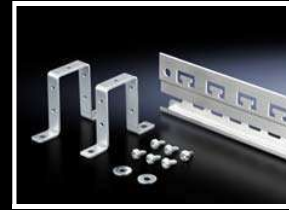
#### Accessories:

- Support bracket or spacer, see page 732
- Quick-assembly block, see page 733
- Angle piece, see page 733
- Earth straps, see page 762
- Earthing braids, see page 762



#### Possible alternative:

- C rails 30/15, see page 723



### EMC shielding bracket

Quick assembly without the use of tools:

Press the EMC shielding bracket against the cable shield and clip into the rail. Diameter changes are compensated in full by the spring of the EMC shielding bracket.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

For shield diameter mm	Packs of	Model No.
3 – 10	10 pc(s).	<b>2388.100</b>
4 – 15	10 pc(s).	<b>2388.150</b>
10 – 20	10 pc(s).	<b>2388.200</b>
15 – 28	10 pc(s).	<b>2388.280</b>



### EMC gland plates

For shielded cables with a maximum diameter of 20 mm.

Combined EMC/IP seal provides low-resistance contact between cable shield and gland plate.

For all 400, 500, 600 and 800 mm deep enclosures in conjunction with standard gland plates.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- 1 gland plate with T-head punching
- 1 sliding base plate
- 2 IP/EMC seals

Width mm	Packs of	Model No.
600	1 pc(s).	<b>8800.660</b>
800	1 pc(s).	<b>8800.680</b>
1000	1 pc(s).	<b>8800.600<sup>1)</sup></b>
1200	1 pc(s).	<b>8800.620<sup>1)</sup></b>

<sup>1)</sup> For one enclosure half only



# Interior installation

## EMC



### EMC cable glands

The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shield in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed down, thus creating a conductive connection.

**Protection category IP to IEC 60 529:**

- IP 68

**Possible alternative:**

- Cable gland Hygienic Design, see page 777

**Cable glands, metric**

Size	Cable diameter mm	Minimum shield diameter <sup>1)</sup> mm	Packs of	Model No.
M16	4.5 – 10	3	5 pc(s).	<b>2843.160</b>
M20	6 – 12	5	5 pc(s).	<b>2843.200</b>
M25	11 – 17	8	5 pc(s).	<b>2843.250</b>
M32	15 – 21	10	1 pc(s).	<b>2843.320</b>
M40	19 – 28	15	1 pc(s).	<b>2843.400</b>
M50	27 – 38	19	1 pc(s).	<b>2843.500</b>
M63	34 – 44	30	1 pc(s).	<b>2843.630</b>

<sup>1)</sup> Minimum shield diameter = cable diameter minus cable sheathing



### EMC shield bus

Made of corrosion-proof steel strip, 75 mm<sup>2</sup> cross section, for cable shield contact.

**Supply includes:**

- Assembly parts

Rail length mm	Connections	Packs of	Model No.
375	10	1 pc(s).	<b>2413.375</b>
550	16	1 pc(s).	<b>2413.550</b>



### EMC earth clamps

The clamps may be used directly on the device or operating equipment on the mounting plate for cable shield contact.

**Material:**

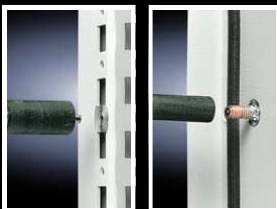
- Sheet steel

**Surface finish:**

- Zinc-plated

Size mm	Packs of	Model No.
4	50 pc(s).	<b>2367.040</b>
6	50 pc(s).	<b>2367.060</b>
8	50 pc(s).	<b>2367.080</b>
12	50 pc(s).	<b>2367.120</b>
16	50 pc(s).	<b>2367.160</b>
20	25 pc(s).	<b>2367.200<sup>1)</sup></b>

<sup>1)</sup> 2 assembly brackets



### Contact cutter

The contact cutter enables EMC-compatible preparation of the contact point e.g. for earthing braids. Plastic-bound abrasive with guide pin for round system punchings. With location point for drill, grinder etc.

For	Model No.
Frame section	<b>2414.000</b>
Earthing bolts <sup>1)</sup>	<b>2414.500</b>

<sup>1)</sup> Not necessary with TS



### Contact paint

Contact paint prevents the corrosion of conductive, unprotected contact points.

**Contents:**

- 12 ml

Packs of	Model No.
1 pc(s).	<b>2415.000</b>

# Interior installation

## For areas at risk from earthquakes

**TS 8 for earthquake zone 1, 2 and 3 to Bellcore**  
8806.500:  
W x H x D 800 x 2000 x 600 mm

With base/plinth (base/plinth components front and rear, see page 619 and base/plinth trim panel, side, see page 620), 100 mm high.

**Note:**

- In conjunction with a corresponding sheet steel TS base/plinth, 100 mm high, the TS 8 enclosure 8806.500 meets the requirements for earthquake zone 1, 2 and 3 to Bellcore.
- These versions have been tested and meet the requirements to Telcordia GR 63-CORE. They should be seen as a comparative variable to the customer's own plant, since empty enclosures cannot be certified.
- To comply with earthquake zone 4 to Bellcore, the TS 8 enclosure 8806.500 can be retrofitted with an earthquake kit together with an earthquake base/plinth.

**TS 8 for earthquake zone 4 to Bellcore**  
8806.500:  
W x H x D 800 x 2000 x 600 mm

Fitted with:

- Earthquake kit and
- Earthquake base/plinth, see page 761

(Photo shows TS 8 for earthquake zone 4 to Bellcore)



### Earthquake kit

**Material:**

- Sheet steel

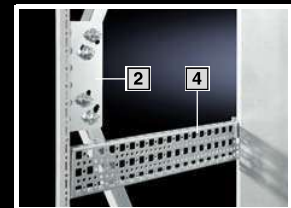
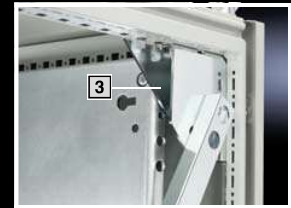
**Surface finish:**

- Zinc-plated

**Supply includes:**

- 1 2 side reinforcements, bottom
- 2 2 bracing struts each, sides
- 3 8 gusset plates
- 4 Mounting plate attachment and reinforcement, including assembly parts

For enclosures W x H x D mm	Packs of	Model No.
800 x 2000 x 600	1 pc(s).	8613.860



### Earthquake base/plinth

Height 100 mm

**Material:**

- Corner pieces: Sheet steel, 5 mm
- Trim panels: Sheet steel, 2 mm

**Surface finish:**

- Powder-coated

**Colour:**

- RAL 7022

**Supply includes:**

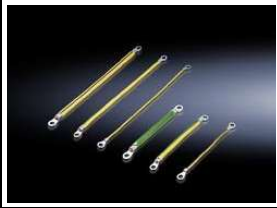
- 1 pc(s). =
  - 4 corner pieces,
  - 2 depth stays,
  - 1 trim panel each front and rear
- Fully assembled.

For enclosures W x D mm	Packs of	Model No.
800 x 600	1 pc(s).	8601.860



# Interior installation

## Earthing



### Earth straps

For configuring a reliable earthing connection with perfect contact

- With ring terminals in M6 and M8 to match the earthing screws
- Length-optimised and ready to install

Enclosure	Connection option		
	Door/cover	Enclosure	Mounting plate
KL	M6	M6	M8
EB/BG	M6	M6	–
AE	M6	M6 <sup>1)</sup> /M8	M8
KE/KEL	M8	M8	M8
CM/TP	M6	M8	M8
TS/SE	M8	M8	M8
PC	M8	M8	–

<sup>1)</sup> M6 with AE 1032.XXX/AE 1035.XXX

Connection	Cross-section mm <sup>2</sup>	Length mm	Packs of	Model No.
M8 – M8	4	170	5 pc(s).	<b>2564.000</b>
M8 – M8	16	170	5 pc(s).	<b>2565.000</b>
M8 – M8	25	170	5 pc(s).	<b>2566.000</b>
M6 – M6	10	200	5 pc(s).	<b>2565.100</b>
M8 – M8	4	300	5 pc(s).	<b>2567.000</b>
M6 – M8	10	300	5 pc(s).	<b>2565.110</b>
M8 – M8	10	300	5 pc(s).	<b>2565.120</b>
M8 – M8	16	300	5 pc(s).	<b>2568.000</b>
M8 – M8	25	300	5 pc(s).	<b>2569.000</b>



### Earthing braid

Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing braids counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

For	Cross-section mm <sup>2</sup>	Length mm	Packs of	Model No.
M6	10	200	10 pc(s).	<b>2412.210</b>
M8	16	200	10 pc(s).	<b>2412.216</b>
M8	25	200	10 pc(s).	<b>2412.225</b>
M6	10	300	10 pc(s).	<b>2412.310</b>
M8	16	300	10 pc(s).	<b>2412.316</b>
M8	25	300	10 pc(s).	<b>2412.325</b>



### Assembly parts

#### for system punchings

For fastening the earth straps and earthing braids to:

- Horizontal TS enclosure sections
- PS rail systems
- Horizontal SE enclosure sections (in the depth only, top)

Size	Packs of	Model No.
M6	10 pc(s).	<b>2570.000</b>
M8	10 pc(s).	<b>2559.000</b>

#### ! Also required:

- For mounting on the horizontal TS, SE enclosure section: Cage nut, see page 736



### Assembly parts

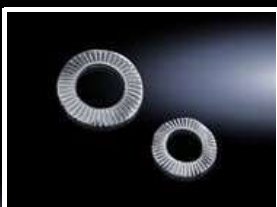
#### for gland plates

For fastening the earth straps and earthing braids to:

- Gland plates

Fast assembly thanks to self-tapping screws

Size	Packs of	Model No.
M8	10 pc(s).	<b>2570.200</b>



### Contact washers

Serrated contact washers facilitate secure PE conductor connection. As a result, there is no need to manually strip paint in the connection area.

Size	Packs of	Model No.
M5	100 pc(s).	<b>2343.000</b>
M6	100 pc(s).	<b>2334.000</b>
M8	100 pc(s).	<b>2335.000</b>

# Interior installation

## Earthing

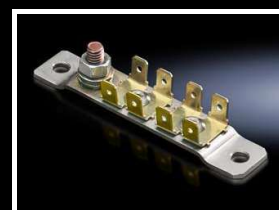
### Earthing plate

- For installation in
- Comfort Panel
  - Optipanel
  - TS
  - SE
  - PC

One earthing cable can be screw-fastened to the threaded bolt and connected to up to 8 components with earth straps via 6.3 mm flat-pin connectors.

Packs of	Model No.
1 pc(s).	2570.500

- Supply includes:**
- Assembly parts



### Central earthing point

- For connecting
- Earth straps
  - Earthing braids
- to the vertical and horizontal enclosure profile. The connection bracket is connected to the enclosure frame with 2 screws and is securely contacted. Earth connection is carried out via the threaded bolt M8 x 20 mm.

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

Packs of	Model No.
1 pc(s).	7829.200

- Supply includes:**
- 1 connection bracket
  - 2 assembly screws for mounting on the enclosure section
  - 2 serrated washers
  - 1 nut M8
  - 1 contact lock washer M8
  - 1 washer



### Potential equalisation star

#### for 8 mm earthing bolt

The earthing connector is used for simple potential equalisation on an 8 mm earthing bolt, or in conjunction with central earthing point 7829.200. Up to five flat-pin connectors (6.3 mm) may be contacted on one earthing point.

Packs of	Model No.
10 pc(s).	7548.210

- Supply includes:**
- 10 earthing connectors
  - Assembly parts



### Earthing extension kits

#### for TS IT

To DIN EN 60 950/VDE 0805,  $\varnothing$  4 mm<sup>2</sup>, length 300 mm. For system-compatible earthing of all housing parts on the housing frame. The earth conductors are pre-assembled ready for connection with connectors.

- Supply includes:**
- 8 earth straps, UL style 1015 AWG 12
  - Central earthing point and assembly parts

- Approvals:**
- UL

Packs of	Model No.
1 pc(s).	7829.150



# Interior installation

## Earthing



### Complete earthing kit

#### for TE

To DIN EN 60 950/VDE 0805,  $\varnothing$  4 mm<sup>2</sup>. For system-compatible earthing of all housing parts on the housing frame. The earth conductors are pre-assembled ready for connection with connectors and cut to the correct length.

#### Supply includes:

- 4 earth straps, 300 mm
- 4 earth straps, 350 mm
- Assembly parts

Packs of	Model No.
1 pc(s).	<b>7000.675</b>



### Earthing kit

#### for KL

Comprising all the screws, nuts, contact washers and earthing strip needed to earth the cover; length 250 mm, cross-section 4 mm<sup>2</sup>.

Packs of	Model No.
5 pc(s).	<b>2570.100</b>



### PE busbar

699 mm long PE busbar with pre-fitted screws, including terminal clamps up to 6 mm<sup>2</sup> (fine wire conductors), 10 mm<sup>2</sup> (single wire or multi-wire conductors) and main terminal clamp up to 35 mm<sup>2</sup>.

Packs of	Model No.
1 pc(s).	<b>2364.000</b>

#### Accessories:

- Cable retainer, see page 735



### Earth rail, horizontal

#### for TS, TS IT, SE

#### Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 20 connection points with M5 screws
- 2 earth connections 25 mm<sup>2</sup>
- 2 isolators
- Assembly parts

For enclosure width mm	Width mm	Height mm	Length mm	Packs of	Model No.
600 800	15	5	450	1 pc(s).	<b>7113.000</b>

# Interior installation

## Earthing

### Earth rail, vertical

#### for TS

Easily fitted to the 25 mm DIN pitch pattern of distributors or to the 482.6 mm (19') mounting angles. The supplied earth conductors facilitate star earthing of the cable clamp straps in the patch panels. The earth terminals are fully adjustable. Current carrying capacity of rail approx. 200 A.

#### Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 16 conductor connection clamps 2.5 – 16 mm<sup>2</sup>
- 15 earthing leads 6 mm<sup>2</sup>, L = 500 mm
- Assembly parts

For enclosure height mm	Length mm	Packs of	Model No.
800	545	1 pc(s).	7541.000
1000	745	1 pc(s).	7542.000
1200	945	1 pc(s).	7543.000
1400	1145	1 pc(s).	7544.000
1600	1345	1 pc(s).	7545.000
1800	1545	1 pc(s).	7546.000
2000	1745	1 pc(s).	7547.000
2200	1945	1 pc(s).	7548.000



### Extension kit

#### for earth rail, vertical

For system-compatible expansion of the star earthing on the vertical potential equalisation rail.

#### Supply includes:

- 15 earthing leads 6 mm<sup>2</sup>, L = 500 mm
- Preassembled, with ring terminal and wire end ferrule
- Earth terminals 2.5 – 16 mm<sup>2</sup>
- Assembly parts

Packs of	Model No.
10 pc(s).	7549.000



### ESD connection point

Dangerously high potential differences can occur during maintenance or conversion work on the enclosure. To protect sensitive electronic components, this standardised connection point (push-button) provides potential equalisation. The connection point is directly conductively connected to the enclosure frame via two screws.

Packs of	Model No.
1 pc(s).	7752.950

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts



# Interior installation

## Earthing



### E-Cu busbars

#### with integral holes

Suitable for

- Direct installation in enclosures
- Busbar supports
  - 9340.000/.010, see page 266
  - 9340.004, see page 266
  - 3052.000, see page 352
  - 3073.000, see page 352
- PE/PEN combinations in conjunction with PE/PEN combination angles, see page 767 and baying bracket E-Cu, see page 767

#### Size 30 x 5 mm (hole Ø 11 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	365	2 pc(s).	<b>9661.345</b>	
600	565	2 pc(s).	<b>9661.365</b>	
800	765	2 pc(s).	<b>9661.385</b>	
1000	965	2 pc(s).	<b>9661.305</b>	
1200	1165	2 pc(s).	<b>9661.325</b>	

#### Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.355	767
PE/PEN combination angle	–	4 pc(s).	9661.235	767

#### Size 30 x 10 mm (hole Ø 11 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	365	2 pc(s).	<b>9661.340</b>	
600	565	2 pc(s).	<b>9661.360</b>	
800	765	2 pc(s).	<b>9661.380</b>	
1000	965	2 pc(s).	<b>9661.300</b>	
1200	1165	2 pc(s).	<b>9661.320</b>	

#### Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.350	767
PE/PEN combination angle	–	4 pc(s).	9661.230	767

#### Size 40 x 10 mm (hole Ø 14 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	392	2 pc(s).	<b>9661.040</b>	
600	592	2 pc(s).	<b>9661.060</b>	
800	792	2 pc(s).	<b>9661.080</b>	
1000	992	2 pc(s).	<b>9661.000</b>	
1200	1192	2 pc(s).	<b>9661.020</b>	

#### Accessories

Baying bracket E-Cu	88	4 pc(s).	9661.050	767
PE/PEN combination angles for use with Form 2-4	–	4 pc(s).	9661.240	767
PE/PEN combination angles for other applications	–	4 pc(s).	9661.200	767

#### Size 80 x 10 mm (hole Ø 14 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	392	2 pc(s).	<b>9661.140</b>	
600	592	2 pc(s).	<b>9661.160</b>	
800	792	2 pc(s).	<b>9661.180</b>	
1000	992	2 pc(s).	<b>9661.100</b>	
1200	1192	2 pc(s).	<b>9661.120</b>	

#### Accessories

Baying bracket E-Cu	88	4 pc(s).	9661.150	767
PE/PEN combination angles for use with Form 2-4	–	4 pc(s).	9661.240	767
PE/PEN combination angles for other applications	–	4 pc(s).	9661.200	767



# Interior installation

## Earthing

### Inserted screw nuts M12

Self-holding nuts with knurled ring for busbars E-Cu.

Hole diameter: 14,5 mm

Packs of	Model No.
30 pc(s).	3591.060



### PE/PEN combination angle E-Cu

#### for PE/PEN combinations

The PE/PEN combination, comprising busbars, combination angles and baying brackets, supports type-tested configurations to IEC 61 439-1.

The pre-assembled combination angles, baying brackets and busbars customised to match the enclosure width ensure time-saving assembly and reduced costs.

#### Material:

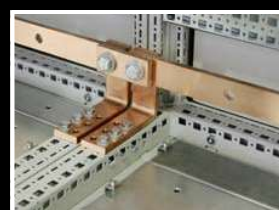
- E-Cu

#### Supply includes:

- Assembly parts

#### Tested short-circuit resistance

- PE/PEN combination 30 x 5 mm:  
 $I_{cw}$  18 kA, 1 sec.
- PE/PEN combination 30 x 10 mm:  
 $I_{cw}$  30 kA, 1 sec.
- PE/PEN combination 40/80 x 10 mm:  
 $I_{cw}$  60 kA, 1 sec.



For busbars mm	Application		Size mm	Packs of	Model No.
	Form 2-4	Others			
30 x 5	■	■	30 x 5	4 pc(s).	9661.235
30 x 10	■	■	30 x 10	4 pc(s).	9661.230
40 x 10 and	■	-	40 x 10	4 pc(s).	1 9661.240
80 x 10	-	■	40 x 10	4 pc(s).	9661.200

### Baying bracket E-Cu

For busbars mm	Length mm	Packs of	Model No.
30 x 5	95	4 pc(s).	9661.355
30 x 10	95	4 pc(s).	9661.350
40 x 10	88	4 pc(s).	9661.050
80 x 10	88	4 pc(s).	9661.150



# Cable management

## Cable entry



### Cable entry plates

**for**

- Cable entry grommets
  - Connector grommets
- instead of segments of the standard divided gland plates

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

**For installation in TS, SE and PC enclosures**

Enclosure width mm	Cut-outs per plate	Packs of	Model No.
600	5	2 pc(s).	<b>8800.060</b>
800	8	2 pc(s).	<b>8800.080</b>
1000	4	4 pc(s).	<b>8800.100</b>
1200	6	4 pc(s).	<b>8800.120</b>

**For installation in CM enclosures and TP TopConsole system**

Enclosure width mm	Cut-outs per plate	Packs of	Model No.
600	5	1 pc(s).	<b>5001.226</b>
800	8	1 pc(s).	<b>5001.227</b>
1000	4	1 pc(s).	<b>5001.228</b>
1200	6	1 pc(s).	<b>5001.229</b>
1600	8	1 pc(s).	<b>5001.237</b>

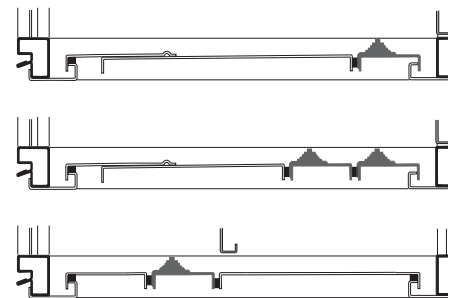
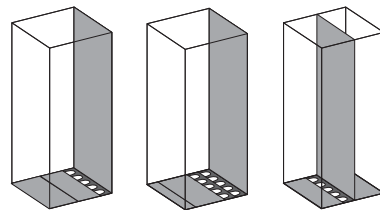


**Accessories:**

- Cable entry grommets, see page 769

**Three examples from a wide range of possibilities**

The diagrams show three TS examples for the positioning of cable entry plates instead of segments of the three-piece gland plates supplied as standard. This facilitates positioning to fit the mounting plate. Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.



# Cable management

## Cable entry

### Cable entry grommets

In conjunction with the cable entry plate, supports simple and fast sealing of cables inserted in the base area of enclosures.

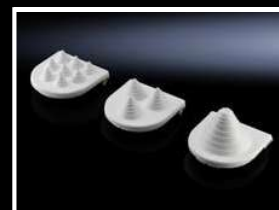
**Material:**

- Body: Polypropylene
- Cover: Thermoplastic elastomer

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

Cables per grommet	Max. Ø mm	Packs of	Model No.
8	13	25 pc(s).	<b>4316.000</b>
3	21	25 pc(s).	<b>4317.000</b>
1	47	25 pc(s).	<b>4318.000</b>



### Connector grommets

Suitable for cable diameters from 8 to 36 mm.

**Material:**

- Outer cover: Polypropylene covered with thermoplastic elastomer
- Seal: Cellular rubber

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

Packs of	Model No.
10 pc(s).	<b>4311.000</b>



### Section for cable entry, centre for TS, SE, CM, TP

For top-mounting on gland plates. A superior alternative to the foam rubber cable clamp strip, thanks to:

- Easier mounting
- Full-surface support
- High level of sealing of cables inserted into the enclosure

**Material:**

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

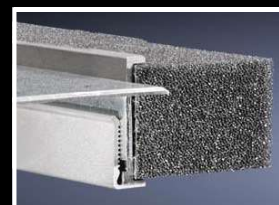
**Supply includes:**

- Plug-in sections, incl. foam rubber clamp strips

**Note:**

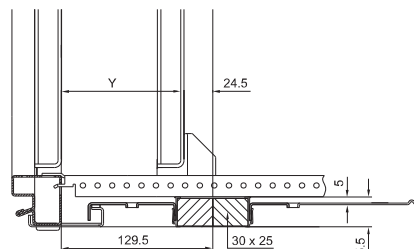
- 2 pc(s). are sufficient for one base opening up to an enclosure width of 800 mm
- From an enclosure width of 1000 mm, two base openings are provided. 4 packs per enclosure may be fitted.

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	<b>8802.060</b>
800	2 pc(s).	<b>8802.080</b>
1000	4 pc(s).	<b>8802.100</b>
1200	4 pc(s).	<b>8802.120</b>
1600	4 pc(s).	<b>8802.160</b>



**Accessories:**

- Cable clamp rails (right angle section), see page 783
- C rail 30/15, see page 723



Y = Mounting plate depth-adjustable on a 25 mm pitch pattern (final pitch 30 mm)

# Cable management

## Cable entry



### Section for cable entry, rear for TS, SE, CM, TP

Unlike the section for cable entry, centre, the rear section is mounted directly onto the base opening. In this way, when installing the mounting plate in the rearmost position (TS) or with CM, the cables may be routed directly on a cable clamping rail with no large radii. In conjunction with the cable clamp rail, optimum adjustment between the cable entry and mounting plate can be achieved.

#### Material:

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

#### Protection category IP to IEC 60 529:

- IP 55 if installed correctly

#### Supply includes:

- Plug-in sections, incl. foam rubber clamp strips

#### Note:

- 2 pc(s). are sufficient for one base opening up to an enclosure width of 800 mm
- From an enclosure width of 1000 mm, two base openings are provided. 4 packs per enclosure may be fitted.

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	<b>8802.065</b>
800	2 pc(s).	<b>8802.085</b>
1000	4 pc(s).	<b>8802.105</b>
1200	4 pc(s).	<b>8802.125</b>
1600	4 pc(s).	<b>8802.165</b>



#### Accessories:

- Cable clamp rail, see page 783



### Foam rubber cable clamp strip

For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

#### Material:

- PU foam
- Cross-section: 30 x 30 mm

#### Protection category IP to IEC 60 529:

- IP 55 if installed correctly

Packs of	Model No.
3 m	<b>2573.000</b>



### EMC gland plates

see page 759

# Cable management

## Gland plates

### Plastic cable gland plates

#### With metric knockouts

With pre-punched holes for cable glands. Used for sealing standard gland plates.

#### Temperature range:

– Suitable for use from -40°C...+70°C

#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

– IP 55 if installed correctly

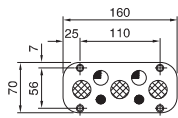
#### Note:

– The applicable size may be taken from the relevant product ordering page

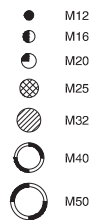
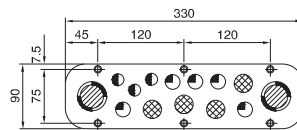
Size	Packs of	Model No.
1	10 pc(s).	2560.010
3	10 pc(s).	2561.010
4	5 pc(s).	2562.010
5	5 pc(s).	2563.010



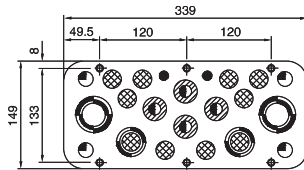
Size 1



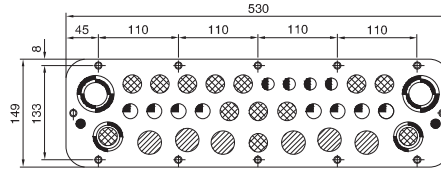
Size 3



Size 4



Size 5



### Plastic cable gland plates

#### With PG knockouts

With pre-punched PG holes for cable glands. Used for sealing standard gland plates.

#### Temperature range:

– Suitable for use from -40°C...+70°C

#### Material:

– ABS

#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

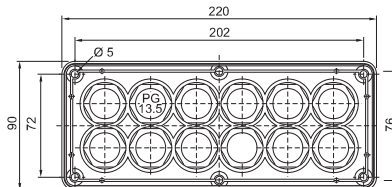
– IP 55 if installed correctly

#### Note:

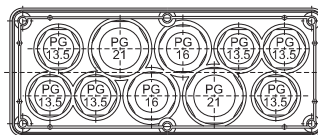
– The applicable size may be taken from the relevant product ordering page

Size	PG	Qty.	Packs of	Model No.
2	13.5	12	5 pc(s).	1581.000
	16	6		
	21	2	5 pc(s).	1582.000
	21	2		

1581.000



1582.000



# Cable management

## Gland plates



### Plastic gland plates

#### with membranes

Simply pierce the plastic with a sharp object, and pull through the cable.

#### Material:

- Plastic to UL 94-V0

#### Colour:

- Similar to RAL 7035

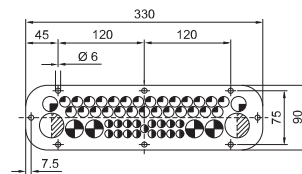
#### Protection category IP to IEC 60 529:

- IP 65 with careful cable entry

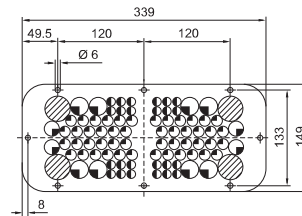
#### Note:

- The applicable size may be taken from the relevant product ordering page

Size 3



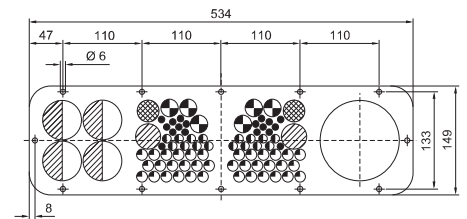
Size 4



Size	Packs of	Model No.
3	1 pc(s).	<b>2561.500</b>
4	1 pc(s).	<b>2562.500</b>
5	1 pc(s).	<b>2563.500</b>

Diameter mm	No. of cable entries for Model No.		
	2561.500	2562.500	2563.500
● 5 – 9	–	–	18
◐ 6 – 11	17	–	–
◑ 7 – 12	–	24	16
◒ 10 – 15	27	48	36
◓ 15 – 21	2	4	–
◔ 15 – 24	–	–	6
◕ 15 – 25	–	8	–
◖ 16 – 25	4	–	–
◗ 19 – 34	2	–	–
◘ 23 – 30	–	–	2
◙ 26 – 35	–	4	2
◚ 26 – 54	–	–	4
○ 50 – 110	–	–	1

Size 5



# Cable management

## Gland plates

### Metal gland plates

#### with metric knockouts

Simply knock out the holes for the cable glands using a screwdriver.

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

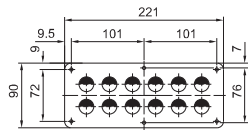
#### Protection category IP to IEC 60 529:

- IP 66 when mounting in the usual position at the bottom

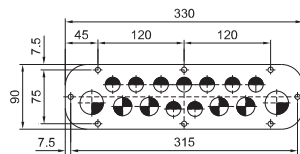
#### Note:

- The applicable size may be taken from the relevant product ordering page

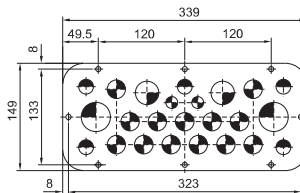
#### Size 2



#### Size 3



#### Size 4



Size	Packs of	Model No.
2	1 pc(s).	1581.100
3	1 pc(s).	2561.100
4	1 pc(s).	2562.100
5	1 pc(s).	2563.100

#### Number of cable entries

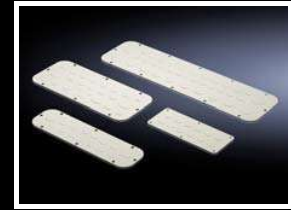
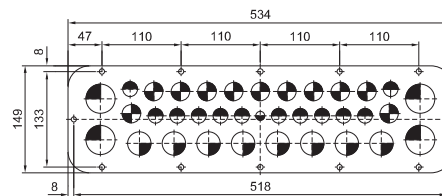
Diameter						Model No.
M12	M16	M20	M25	M32	M40	
-	-	12	-	-	-	1581.100
-	-	9	4	2	-	2561.100
-	2	5	13	2	2	2562.100
1	-	12	11	8	4	2563.100



#### Accessories:

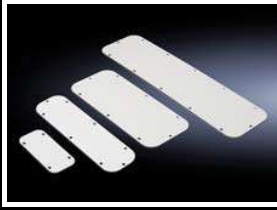
- Cable glands made from polyamide or brass, see page 776

#### Size 5



# Cable management

## Gland plates



### Metal gland plates

As spare/replacement part for the standard gland plates supplied loose.

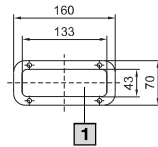
**Material:**  
– Sheet steel

**Colour:**  
– RAL 7035

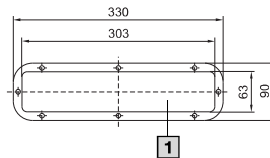
**Protection category IP to IEC 60 529:**  
– IP 66 when mounting in the usual position at the bottom

**Note:**  
– The applicable size may be taken from the relevant product ordering page

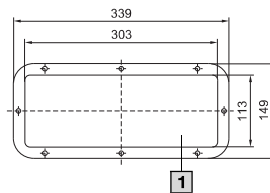
2560.400



2561.400



2562.400

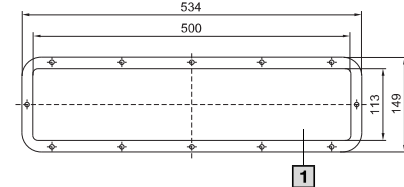


Size	Version	Packs of	Model No.
1	solid	1 pc(s).	<b>2560.400</b>
2	solid	6 pc(s).	<b>1158.500</b>
3	solid	1 pc(s).	<b>2561.400</b>
4	solid	1 pc(s).	<b>2562.400</b>
5	solid	1 pc(s).	<b>2563.150</b>

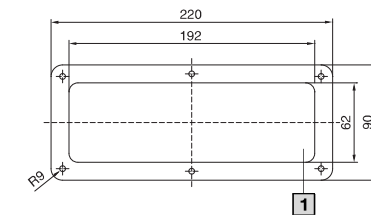
### Accessories:

– Cable glands made from polyamide or brass, see page 776

2563.150



1158.500



**1** Area available for population



### Gland plate

for metric cable glands, for EL

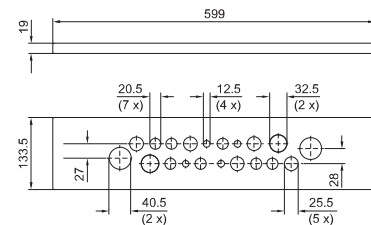
Folded gland plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

**Material:**  
– Sheet steel, 1.5 mm

**Colour:**  
– RAL 7035

**Protection category IP to IEC 60 529:**  
– IP 55

Width mm	Depth mm	Cable entry (quantity x diameter)	Packs of	Model No.
599	133.5	4 x M12 7 x M20 5 x M25 2 x M32 2 x M40	1 pc(s).	<b>7705.235</b>





# Cable management

## Gland plates

### Gland plate

#### with brush insert, for EL

Folded gland plate with foamed-in seal and plastic brush inserts for simple cable entry.

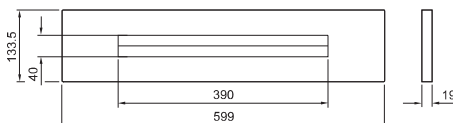
#### Material:

- Sheet steel, 1.5 mm

#### Colour:

- RAL 7035

Packs of	Model No.
1 pc(s).	7705.035



### Brush strip

For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any given positions in the side panel, rear panel, doors, roof and base plate may be finished off attractively by simply attaching the brush strip.

Packs of	Model No.
2 m	7072.200

#### Technical specifications:

- For metal thickness: 0.6 – 1.5 mm
- Bristle length: 30 mm
- Plastic sheathing: 18 mm
- Snap-on surface: 10 mm
- Maximum cut-out height: 38 mm



### Brush strip, super-airtight

For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any position in the side panel, rear panel, doors, roof and base plate. These special brush strips may be used to create airtight entries for cable sections and conductors. The brush strips arranged in an offset configuration ensure good sealing from the routed cables even with large quantities of cables. In this way, unwanted flow losses may be reduced to a minimum.

Packs of	Model No.
2 x 1 m	7825.375

#### Technical specifications:

- For metal thickness: 1.5 – 2 mm
- Bristle length: 58 mm
- Plastic sheathing: 14 mm
- Snap-on surface: 11.5 mm
- Cut-out width: 88 – 90 mm

#### Material:

- Plastic

#### Supply includes:

- 1 brush strip, right-hand version
- 1 brush strip, left-hand version



# Cable management

## Cable gland



### Cable gland, brass

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

**Material:**

- Brass
- Seal: TPE/NBR

**Surface finish:**

- Nickel-plated

**Protection category IP to IEC 60 529:**

- IP 68 (1 bar, 30 min.)

**Approvals:**

- VDE

Size	Packs of	Model No.
M12 x 1.5	15 pc(s).	<b>2411.801</b>
M16 x 1.5	15 pc(s).	<b>2411.811</b>
M20 x 1.5	10 pc(s).	<b>2411.821</b>
M25 x 1.5	10 pc(s).	<b>2411.831</b>
M32 x 1.5	5 pc(s).	<b>2411.841</b>
M40 x 1.5	4 pc(s).	<b>2411.851</b>
M50 x 1.5	2 pc(s).	<b>2411.861</b>
M63 x 1.5	1 pc(s).	<b>2411.871</b>

**Possible alternative:**

- Cable gland Hygienic Design, see page 777



### Cable gland, polyamide

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

**Material:**

- Polyamide 6
- Seal: Neoprene

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 68 (1 bar, 30 min.)

**Approvals:**

- VDE

Size	Packs of	Model No.
M12 x 1.5	50 pc(s).	<b>2411.601</b>
M16 x 1.5	50 pc(s).	<b>2411.611</b>
M20 x 1.5	50 pc(s).	<b>2411.621</b>
M25 x 1.5	25 pc(s).	<b>2411.631</b>
M32 x 1.5	15 pc(s).	<b>2411.641</b>
M40 x 1.5	5 pc(s).	<b>2411.651</b>
M50 x 1.5	5 pc(s).	<b>2411.661</b>
M63 x 1.5	3 pc(s).	<b>2411.671</b>

# Cable management

## Cable gland

### HD cable gland

#### Applications:

- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

#### Benefits:

- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms
- Much easier, and therefore cheaper, to clean compared with conventional cable glands

#### Material:

- Cap nut: Stainless steel 1.4305 (AISI 303)
- Seal: Conforms to FDA 21 CFR 177.2600

#### Protection category IP to IEC 60 529:

- IP 68 (5 bar, 30 min.)

#### Protection category IP to DIN 40 050-9:

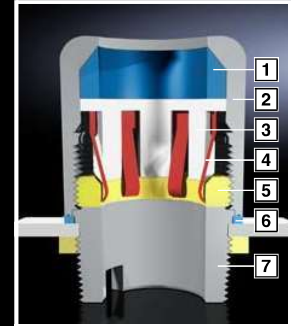
- IP 69K

#### Standard version

Size	Cable diameter mm	Packs of	Model No.
M12 x 1.5	3 – 6.5	5 pc(s).	<b>2410.000</b>
M16 x 1.5	5 – 10	5 pc(s).	<b>2410.010</b>
M20 x 1.5	6 – 12	5 pc(s).	<b>2410.020</b>
M25 x 1.5	12 – 17	5 pc(s).	<b>2410.030</b>

#### EMC version

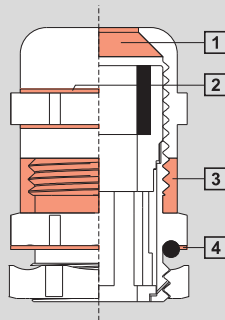
Size	Cable diameter mm	Packs of	Model No.
M16 x 1.5	5 – 10	5 pc(s).	<b>2410.110</b>
M20 x 1.5	6 – 12	5 pc(s).	<b>2410.120</b>
M25 x 1.5	12 – 17	5 pc(s).	<b>2410.130</b>



### Why use hygienic cable glands?

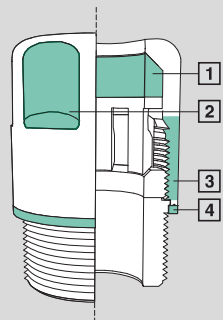
#### Critical points with conventional solutions

- 1 Cable entry in front of seal
- 2 No minimum radii on the hexagon
- 3 External threads
- 4 Gap caused by O-ring on the enclosure surface



#### Hygienic design features

- 1 Seal directly at the cable entry
- 2 Compliance with minimum radii on the hexagon
- 3 No external threads
- 4 Flush termination between the cap nut and the enclosure



- 1 Seal
- 2 Cap nut
- 3 Gripper jaws
- 4 Shield spring (EMC version only)
- 5 Clamping ring
- 6 Enclosure seal
- 7 Base with locator for assembly tool

### Stainless steel lock nut

To match HD cable glands.

#### Material:

- Stainless steel 1.4305 (AISI 303)

Size	Packs of	Model No.
M12 x 1.5	10 pc(s).	<b>2410.200</b>
M16 x 1.5	10 pc(s).	<b>2410.210</b>
M20 x 1.5	10 pc(s).	<b>2410.220</b>
M25 x 1.5	10 pc(s).	<b>2410.230</b>



### Assembly tool

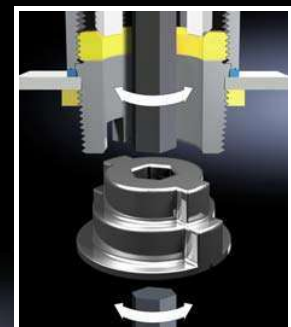
#### for HD cable gland

For attaching HD cable glands in an internal thread or using lock nuts. This can be achieved either from the inside or from the outside using an Allen key.

#### Supply includes:

- 1 pc(s). = Adaptor for sizes from M12 – M25

Packs of	Model No.
1 pc(s).	<b>2410.290</b>



# Cable management

## Cable gland



### Connector gland

#### for connector cut-outs (24-pole)

For the entry of 2 pre-assembled cables in the connector cut-out, without dismantling the connector.

Cable diameter: 8 – 36 mm

**Material:**

- Housing: Plastic
- Clamps: Sheet steel

**Surface finish:**

- Clamps: Zinc-plated

**Supply includes:**

- 1 pc(s). =
- 2 half-shells, including seals, with fastening clamp

Packs of	Model No.
1 pc(s).	2400.000



### Cable gland

#### for IW worktops

To fit drilled holes  $\varnothing$  60 mm. For the entry of cables with pre-assembled connectors, the rotating flap and cover are easily removed.

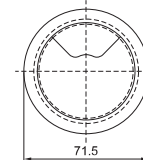
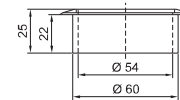
**Material:**

- Plastic

**Colour:**

- RAL 7035

Packs of	Model No.
1 pc(s).	6902.770



### Edge protection

For covering sharp edges of cut-outs. Provides protection from injuries and prevents damage to inserted cables. The edge protector is suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length individually.

**Material:**

- Plastic PVC

**Colour:**

- Black

Packs of	Model No.
10 m	7072.100

# Cable management

## Cable gland



The connector gland proves that sometimes “less is more”: significantly faster installation, a flexible sealing system for different cable diameters, and simple cable entry with pre-assembled cables. Low installation costs, a high degree of protection and flexible cable management – added value guaranteed with the latest generation of cable entry solutions from Rittal.

### Benefits:

- Cable diameters 4 – 16 mm
- Simple cable entry for pre-assembled cables
- Individual cables can be added or replaced without dismantling the sealing frame
- Sealing modules remain safely attached to their cables

## Sealing frame

For pre-assembled cables with connectors.

Mounting over 24-pole or 16-pole connector cut-outs in:

- Module plates for TS divider panels
- Metal gland plates

### Material:

- Frame: Polyamide
- Flat seal: CR

### Protection category IP to IEC 60 529:

- IP 64

### NEMA protection category:

- NEMA 12

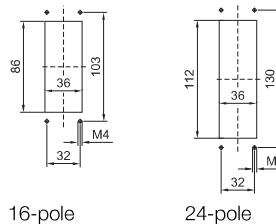
### Supply includes:

- Assembly parts

For modules 20 x 20 mm	For cut-out	Packs of	Model No.
10 pc(s)	24-pole	1 pc(s).	<b>2400.900</b>
8 pc(s).	16-pole	1 pc(s).	<b>2400.910</b>

### + Accessories:

- Module plates for TS divider panel, see from page 649



16-pole

24-pole

## Sealing modules

For sealing cables and lines in conjunction with a sealing frame. 20 x 20 mm and 40 x 40 mm sealing modules may be combined.

### Material:

- Hard shell: Polyamide
- Seal: TPE 2

### Protection category IP to IEC 60 529:

- IP 64

### NEMA protection category:

- NEMA 12

### Sealing modules 20 x 20 mm

Sealing range	Packs of	Model No.
4 – 6 mm	10 pc(s).	<b>2400.920</b>
6 – 9 mm	10 pc(s).	<b>2400.930</b>
solid	10 pc(s).	<b>2400.970</b>

### Sealing modules 40 x 40 mm

Sealing range	Packs of	Model No.
9 – 12 mm	10 pc(s).	<b>2400.940</b>
12 – 16 mm	10 pc(s).	<b>2400.950</b>
solid	10 pc(s).	<b>2400.960</b>



# Cable management

## Cable gland



### Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm
- Strain relief of the pre-assembled cables can be achieved with cable ties.

**Material:**

- Plastic

**Colour:**

- RAL 9005

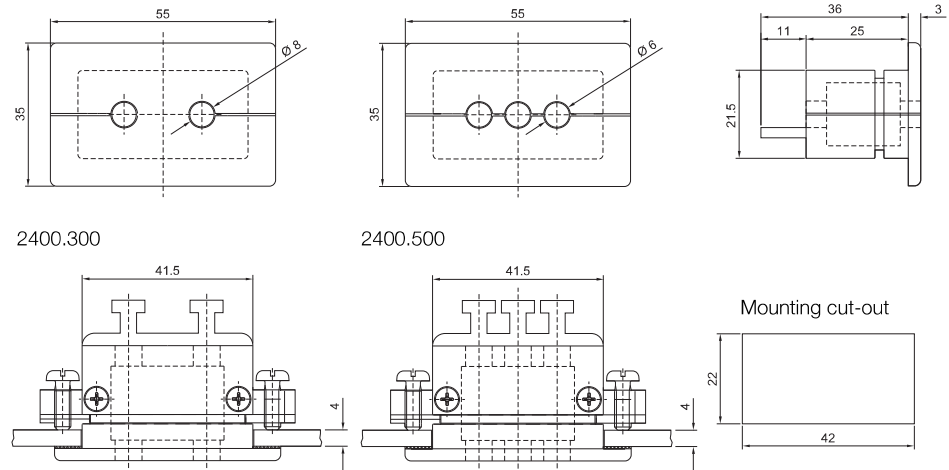
**Protection category IP to IEC 60 529:**

- IP 65 if installed correctly

**Supply includes:**

- Assembly parts

To fit	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	<b>2400.300</b>
3 cables Ø 4 – 6 mm	5 pc(s).	<b>2400.500</b>



2400.300

2400.500



### Cable gland module

for support arm connection Ø 130 mm

Use of the mounting cut-out for support arm connection Ø 130 mm, round, with enclosures mounted on the wall, for sealed cable entry. May also be mounted retrospectively with the cables already inserted. Fitted with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

**Material:**

- Sheet steel

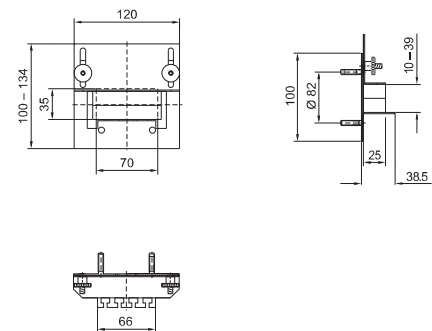
**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

Packs of	Model No.
1 pc(s).	<b>6052.500</b>



### Stepped collar

for wall thicknesses from 1.5 to 4.5 mm

For cable entry, simply cut off at the required level to match the cable diameter.

**Material:**

- Plastic to UL 94-HB

**Protection category IP to IEC 60 529:**

- IP 54 with careful cable entry

For hole	Sealing range mm	Packs of	Model No.
M20	5 – 16	100 pc(s).	<b>2899.200</b>
M25	5 – 21	50 pc(s).	<b>2899.250</b>
M32	13 – 26.5	25 pc(s).	<b>2899.320</b>
M40	13 – 34	20 pc(s).	<b>2899.400</b>

# Cable management

## Cable duct

### for vertical TS section

For direct mounting on the vertical enclosure section.

#### Width 50 mm,

For mounting on a vertical enclosure section in the area of the side panel.

#### Width 100 mm,

For mounting on two bayed enclosure sections in the baying area. Baying brackets and baying clamps which have already been fitted can be covered over with the cable duct. The nominal break points of the bars are also designed for combination with the cable ducts for mounting plates; in addition a further nominal break at the level of the mounting plate enables direct insertion into the cable duct. The cable duct fastening points are co-ordinated with the TS system hole pattern; time-consuming drilling work, as in the case of DIN ducts, is eliminated.

Width mm	Height mm	Packs of	Model No.
50	1600	8 pc(s).	<b>8800.570</b>
50	1800	8 pc(s).	<b>8800.520</b>
100	1600	4 pc(s).	<b>8800.540</b>
100	1800	4 pc(s).	<b>8800.510</b>

#### Technical specifications:

- Depth: 80 mm
- Length: 1600 mm (for enclosure height 1800 mm)  
1800 mm (for enclosure height 2000 mm),  
may be shortened for other enclosure dimensions
- Bar width: 5.5 mm
- Slot width: 4.5 mm

#### Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +60°C

#### Colour:

- Similar to RAL 7030

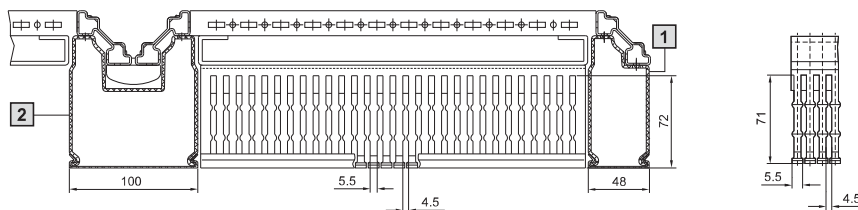
#### Supply includes:

- 1 pc(s). =  
1 cable duct with cover



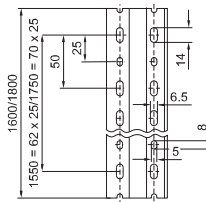
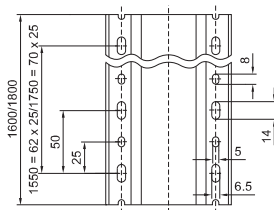
#### Accessories:

- Aluminium rivet for attachment, see page 782

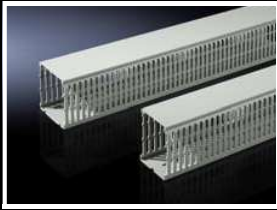


1 8800.570/8800.520

2 8800.540/8800.510



# Cable management



## Cable duct

### for mounting plate

- To fit the cable ducts for vertical TS sections
- If the TS mounting plate is installed in the rear-most position, the horizontally mounted cable ducts are flush with the vertical ones
- For external mounting on surfaces

### Technical specifications:

- Depth: 80 mm
- Length: 2000 mm, may be cut to length
- Bar width: 5.5 mm
- Slot width: 4.5 mm

### Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +60°C

For enclosure width mm		Standard length 2000 mm
Length (L) mm		
Width (B) mm	Packs of	Model No.
30	24 pc(s).	<b>8800.750</b>
40	20 pc(s).	<b>8800.751</b>
60	18 pc(s).	<b>8800.752</b>
80	12 pc(s).	<b>8800.753</b>
100	12 pc(s).	<b>8800.754</b>

### Colour:

- Similar to RAL 7030

### Supply includes:

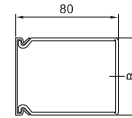
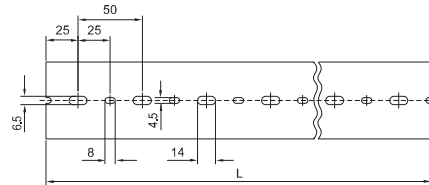
- 1 pc(s). = 1 cable duct with cover



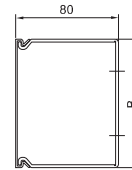
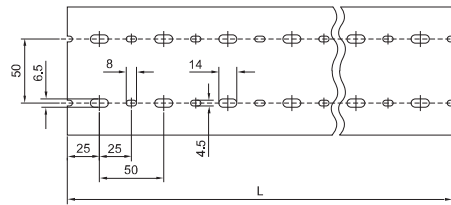
### Accessories:

- Aluminium rivet for attachment, see page 782

Width 30, 40 and 60 mm



Width 80 and 100 mm



## Aluminium rivet

For secure assembly of cable ducts. Also suitable for mounting support rails and punched rails.

To fit

- TS system hole pattern
- Drilled hole  $\varnothing$  4.5 mm

Packs of	Model No.
100 pc(s).	<b>8800.531</b>



### Accessories:

- Cable ducts for vertical TS section, see page 781
- Cable ducts for mounting plate, see page 782



# Cable management

## Cable clamp rails

### Mounting angle

for **TS, SE, PC, TP universal console, TS base/plinth, Flex-Block**

For strain relief with cable entry. Depth-variable mounting on a 25 mm pitch pattern of holes on the horizontal enclosure section or in the TS base/plinth / Flex-Block.

### Material:

– Steel

### Surface finish:

– Zinc-plated

### Supply includes:

– Assembly parts

Enclosure width mm	Length mm	Packs of	Model No.
400	385	2 pc(s).	<b>4193.000</b>
600	585	2 pc(s).	<b>4191.000</b>
800	785	2 pc(s).	<b>4192.000</b>
1000	985	2 pc(s).	<b>4336.000</b>
1200	1185	2 pc(s).	<b>4196.000</b>
1600	1585	2 pc(s).	<b>4338.000</b>
1800	1785	2 pc(s).	<b>4339.000</b>

### + Accessories:

- Fastening bolts for TS base/plinth, see page 622
- Quick-assembly block 4133.000 for Flex-Block, see page 733
- Punched rails 23 x 23 mm for Flex-Block, see page 722



## Cable clamps

### for cable clamp rails

For fastening the cables to the cable clamp rails.

### Material:

– Sheet steel

### Surface finish:

– Zinc-plated

### Supply includes:

– Plastic insert

For cable diameter mm	Packs of	Model No.
6 – 12	25 pc(s).	<b>2350.000</b>
12 – 16	25 pc(s).	<b>2351.000</b>
14 – 18	25 pc(s).	<b>2352.000</b>
18 – 22	25 pc(s).	<b>2353.000</b>
22 – 26	25 pc(s).	<b>2354.000</b>
26 – 30	25 pc(s).	<b>2355.000</b>
30 – 34	25 pc(s).	<b>2356.000</b>
34 – 38	25 pc(s).	<b>2357.000</b>
38 – 42	25 pc(s).	<b>2358.000</b>
42 – 46	25 pc(s).	<b>2359.000</b>
46 – 50	25 pc(s).	<b>2360.000</b>

### → Possible alternative:

- Rail for EMC shielding bracket and strain relief, see page 759



## Cable clamp rails

### C rail, for mounting plates, for **TS, SE, CM, TP**

For strain relief with cable entry. The length of the cable clamp rail is tailored to the width of the mounting plate. The mounting bracket included with the supply supports three different installation situations on the mounting plate:

- 1 Straight, at a distance of 23 mm from the mounting plate
- 2 Straight, at a distance of 10 mm from the mounting plate
- 3 Tilted, towards the mounting plate

### Material:

– Sheet steel

### Surface finish:

– Zinc-plated

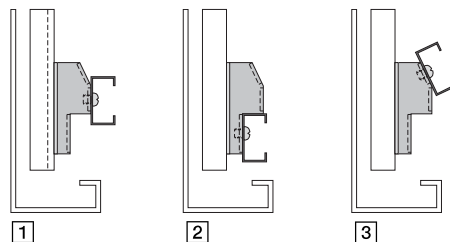
### Supply includes:

– Two mounting brackets and assembly screws.

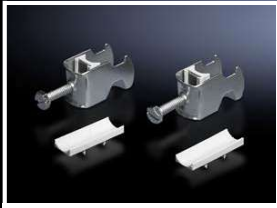
For enclosure width mm	Length mm	Packs of	Model No.
600	499	1 pc(s).	<b>5001.080</b>
800	699	1 pc(s).	<b>5001.081</b>
1000	899	1 pc(s).	<b>5001.082</b>
1200	1099	1 pc(s).	<b>5001.083</b>

### + Accessories:

- Cable clamps for C rails, see page 784



# Cable management



## Cable clamping bracket

For installation in command panels with mounting cut-out □ 120 x 65 mm and Ø 130 mm.

Cable clamping optionally via:

- Cable clamps or
- Cable ties 2597.000
- Standard commercially available cable ties

Bracket height = 25 mm with fitted C rail 40 mm

### Material:

- Sheet steel

### Surface finish:

- Zinc-plated

### Supply includes:

- C rail and assembly screws

Packs of	Model No.
1 pc(s).	6052.000

### + Accessories:

- Cable clamps, see page 784
- Cable ties, see page 785

## Cable clamps for C rails

For attaching the cables to the C rails.

### Material:

- Sheet steel

### Surface finish:

- Zinc-plated

### Supply includes:

- Plastic washers

For cable diameter mm	Packs of	Model No.
6 – 14	25 pc(s).	7077.000
12 – 18	25 pc(s).	7078.000
18 – 22	25 pc(s).	7097.000
22 – 26	25 pc(s).	7097.220
26 – 30	25 pc(s).	7097.260
30 – 34	25 pc(s).	7097.300
34 – 38	25 pc(s).	7097.340
38 – 42	25 pc(s).	7098.000
42 – 56	25 pc(s).	7098.100
56 – 64	25 pc(s).	7099.000

### + Accessories:

- C rails, see from page 723

## Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. Attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

### Material:

- Cable conduit: Polythene
- Cable conduit holder: Polyamide

### Cable conduit

Internal Ø mm	Packs of	Model No.
16	25 m	2595.000
29	25 m	2589.000
36	25 m	2596.000
48	25 m	2590.000

### Cable conduit holder

For cable conduit Ø mm	Packs of	Model No.
16	20 pc(s).	2593.000 <sup>1)</sup>
29	20 pc(s).	2591.000 <sup>1)</sup>
36	20 pc(s).	2594.000
48	20 pc(s).	2592.000

<sup>1)</sup> Installation in compact enclosures AE with universal bracket 2373.000, see page 734

# Cable management

## Cable attachment

For professional, secure fastening of cables and conduits.

For fastening:

- Slide into the punched rail 23 x 23 mm,
- Screw-fasten onto the round punchings of the enclosures, as well as all punched rails and punched sections

### Material:

- Polyamide

### Note:

- As the attachments are bayable, several attachments, even those of different sizes, can be assembled using just 2 screws

For cable diameter from – to mm	Packs of	Model No.
6 – 9	50 pc(s).	<b>4319.090</b>
9 – 12	50 pc(s).	<b>4319.120</b>
12 – 16	50 pc(s).	<b>4319.160</b>
16 – 20	50 pc(s).	<b>4319.200</b>



### Also required:

- Posidrive raised countersunk screw M5 x 12 mm, 2488.000, for screw-fastening to the round system punchings, see page 737



### Accessories:

- Punched rail 23 x 23 mm, see page 722



## Cable tie

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

Length mm	Packs of	Model No.
150	100 pc(s).	<b>2597.000</b>



## Nylon loop

With the nylon loop, secured cables are easily released, allowing individual cables to be added or removed. Ideal for sensitive data cables (fibre-optic/Cu), as it avoids indentations on the cable sheathing. In addition, the nylon loop may be screw-fastened to the round system punchings or attached using a quick-release fastener.

### Colour:

- Black

### Supply includes:

- Quick-release fasteners

Width mm	Length mm	Max. cable diameter mm	Packs of	Model No.
20	130	30	10 pc(s).	<b>7072.220</b>
20	200	50	10 pc(s).	<b>7072.230</b>
20	300	90	10 pc(s).	<b>7072.240</b>



### Also required:

- Screw 2486.500 for screw-fastening to the round system punchings, see page 737



## Nylon tape

For tidy cable routing. Supplied on a reel for cutting to the required length.

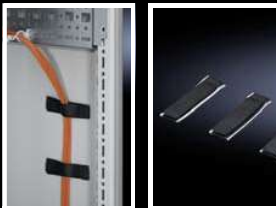
Unlike cable ties, nylon tape

- protects the cable sheathing
- is easily reopened and
- is reusable

Length mm	Width mm	Packs of	Model No.
5000	16	1 pc(s).	<b>2203.400</b>



# Cable management



## Nylon tape holder

- For simple, fast cable attachment
- Tool-free mounting in the system punchings with 10.5 x 12.5 mm, with a quarter rotation
- Direct use on the horizontal TS frame section, on the support strips and mounting angles of the TS IT 482.6 mm (19") interior installation, on the cable route or on punched sections with mounting flanges
- Length of nylon tape: 400 mm

### Material:

- Plastic

### Supply includes:

- 10 nylon tapes
- 10 holders

Packs of	Model No.
10 pc(s).	<b>5502.155</b>

## Nylon loop cable holder

### Self-adhesive

Suitable for universal use in all network enclosures and server racks, wall-mounted enclosures, mounting plates, gland plates.

### Material:

- Woven polyamide 6.6

### Colour:

- Black

Size length x width mm	Packs of	Model No.
70 x 16	10 pc(s).	<b>7111.350</b>

## Snap-in cable routing

### for clipping into the system punchings.

Cable routing suitable for universal use, for tool-free, fast assembly, in two variants:

#### For locking

- User-friendly opening for cable management via locating points
- For cable diameters 14 – 19 mm
- For system punchings 6,2 mm

#### For twisting

- User-friendly opening for cable management
- For cable diameters 10,2 – 12,7 mm
- For system punchings 4,7 mm

### Material:

- Polyamide 6.6, self-extinguishing to UL 94-V2

### Colour:

- Natural

Version	Packs of	Model No.
For locking, for system punchings 6.2 mm	10 pc(s).	<b>7111.300</b>
For twisting, for system punchings 4.7 mm	10 pc(s).	<b>7111.310</b>

# Cable management

## Cable clamp rails

### for TS, TS IT

For vertical cable routing in the enclosure. The cables may be attached to the cable clamp rails with cable ties or nylon loops. The cable clamp rails are simply located onto the frame section and may additionally be secured with a screw.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### For the inner mounting level

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	<b>7828.061</b>
800	800	4 pc(s).	<b>7828.081</b>
1000	1000	4 pc(s).	<b>7828.101</b>
1200	1200	4 pc(s).	<b>7828.121</b>

#### For the outer mounting level

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	<b>7828.062</b>
800	800	4 pc(s).	<b>7828.082</b>
1000	1000	4 pc(s).	<b>7828.102</b>
1200	1200	4 pc(s).	<b>7828.122</b>



#### Accessories:

- Cable ties, see page 785
- Nylon loop, see page 785



## Cable clamp rails, depth-variable

### for TS, TS IT, TE

For cable routing on the enclosure frame and for strain relief of the routed cables. The cables may be attached to the cable clamp rails with cable ties or nylon loops. The cable clamp rails may be located horizontally at the rear directly onto a 482.6 mm (19") mounting level or in the enclosure depth between two mounting levels. An additional screw fastening secures the unit. The depth variability of the rails facilitates flexible adaptation of their length to the existing attachment distance between the two 482.6 mm (19") mounting levels.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Mounting dimension <sup>1)</sup> mm	Packs of	Model No.
325 - 575	4 pc(s).	<b>7858.160</b>
500 - 895	4 pc(s).	<b>7858.162</b>

<sup>1)</sup> Mounting dimensions + 152 mm = distance between 482.6 mm (19") levels



#### Accessories:

- Cable ties, see page 785
- Nylon loop, see page 785



## Cable clamp, variable

### for enclosure-independent mounting

Variable attachment from 450 to 800 mm for flexible cable clamping in two variants. Supports attachment to punched sections with and without mounting flanges, and direct screw-fastening onto mounting plates and other flat surfaces.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

1 C rail

2 T-head rail

Version	Packs of	Model No.
C rail	1 pc(s).	<b>7016.140</b>
T-head rail	1 pc(s).	<b>7016.150</b>



# Cable management



## Cable manager

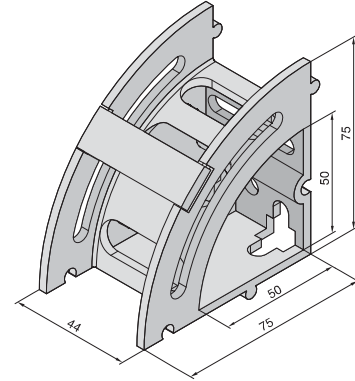
- For system-compatible cable deflection while complying with minimal bending radii and to accommodate surplus cables and excess length. The elements may optionally be used individually or in combination for cable routing. They may be combined into semi-circular or circular elements.
- Supports use on corners and edges to allow protected cable routing around them
- Mounting clips for use above the arc hold the routed cables back within the elements. The elements are also bayable in an axial direction to allow U-based cable routing to the mounting level, or channelling of the cable sections.

**Material:**  
– Plastic, UL 94-V0

**Colour:**  
– RAL 9005

**Supply includes:**  
– Mounting clips and assembly parts

	Packs of	Model No.
Maxi-kit	20 pc(s).	<b>5502.405</b>



## Cable shunting ring

For flexible, system-compatible cable routing at the side of the 482.6 mm (19") mounting angles.

**Material:**  
– Steel

**Surface finish:**  
– Zinc-plated

**Supply includes:**  
– Assembly parts

Dimensions mm	Packs of	Model No.
125 x 85	10 pc(s).	<b>7111.900</b>
125 x 65	10 pc(s).	<b>7111.000</b>
85 x 43	10 pc(s).	<b>7112.000</b>

## Shunting ring

To accommodate large quantities of cables. Shunting ring for side attachment to 482.6 mm (19") sections in 800 mm wide network enclosures. The ring is attached asymmetrically providing approx. 110 mm free space in front of the 482.6 mm (19") level. This allows even large quantities of cables to be effectively managed.

**Material:**  
– Steel

**Surface finish:**  
– Zinc-plated

**Supply includes:**  
– Assembly parts

Dimensions mm	Packs of	Model No.
330 x 90/70	4 pc(s).	<b>7220.600</b>

# Cable management

## Fibre-optic shunting rings

Fibre-optic shunting or jumper cables can be inserted into the grooves of the inner body. A rubber ring holds different fibre-optic cables up to Ø 4.5 mm. Strain relief and bending radius are ensured.

Length: 120 mm

### Material:

- Dual compound plastic

### Colour:

- Exterior: RAL 7035
- Interior: Black

### Supply includes:

- 2 rubber rings
- Baying kit
- Assembly parts

### Assembly:

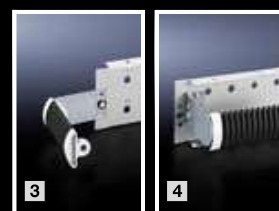
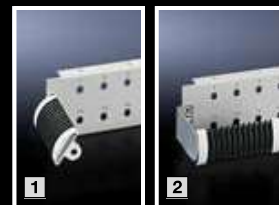
The supplied mounting brackets are suitable for universal use; the fibre-optic cables can be routed to the patch panel in all directions in various mounting positions:

- 1 At the side, directly on the patch panel
- 2 In front of the patch panel
- 3 At the side next to the patch panel
- 4 Behind the patch panel

Packs of	Model No.
2 pc(s).	7116.500

### Possible alternative:

- Fibre-optic cable management panel, 1 U, see page 795



## System supports for cable routes

### for TS, TS IT

The depth-variable support system may be attached to all 800 – 1200 mm deep TS enclosures with external screw-fastening of the roof plate. The integral system punchings, for screws or captive nuts, support the attachment of most common cable route systems.

- May be combined with TS IT fan mounting plate
- In combination with punched rail, suitable for accommodating additional cable routing rails or pipelines
- Support height: 102 mm

### Material:

- Sheet steel

### Surface finish:

- Powder-coated

### Colour:

- RAL 7035

Packs of	Model No.
2 pc(s).	7831.472

### Accessories:

- Metal multi-tooth screws 5.5 x 13 mm, 2486.500, see page 737
- Cage nuts M6, 8800.340, see page 736



# Cable management



## Cable route

### for TS, TS IT

- For cable clamping and routing with network and server applications
- Mounting across the entire depth with 800 mm width, mounting only behind the second 482.6 mm (19") pair of mounting angles with 600 mm width
- Tool-free fast assembly
- Alternatively suitable for screw-fastening
- Multi-functional punchings for cable management accessories

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

Height mm	Packs of	Model No.
2000 – 2200	1 pc(s).	<b>5502.120</b>

#### ⊕ Accessories:

- Cable ties, see page 785
- Nylon tape, see page 785
- Nylon tape holder, see page 786
- Wall-mounted enclosures, see page 788
- Cable routing bars, see page 791

## Cable route

### for TE

For vertical cable entry at the side of the 482.6 mm (19") mounting frame for TE, independently from the enclosure frame.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Width mm	Height mm	Packs of	Model No.
100	1700	1 pc(s).	<b>7000.685</b>

## Surplus cable holder

For fastening at the rear area of the enclosure, or at the side of network enclosures. The surplus cable holder can be attached to all depth stays or to punched sections and rails with a 25 mm pitch pattern – mounting dimension 150 mm. Components may also be joined together.

#### Material:

- Spray-finished

#### Surface finish:

- Zinc-plated

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts

W x H x D mm	Packs of	Model No.
280 x 151 x 75	1 pc(s).	<b>7220.500</b>



# Cable management

## Cable management 482.6 mm (19")

### Cable routing bars

For structured routing of entire cable bundles, the cable bars may be secured to a variety of different positions inside the enclosure.  
Individual chambers H x D: 34 x 80 mm

#### Material:

- Support: Sheet steel
- Cable routing bars, connection combs: Plastic

#### Colour:

- RAL 9005

#### Supply includes:

- Cable routing bars
- Connection combs



### 482.6 mm (19") attachment

For horizontal cable routing within the distributor level.

Thanks to their open mounting holes, they can also be retrospectively slotted onto the 482.6 mm (19") system punchings of the mounting level at any time, and secured with the existing mounting screws of the installed components.

U	No. of connection combs	Packs of	Model No.
4	2 pc(s).	4 pc(s).	<b>7111.224</b>
1	5 pc(s).	10 pc(s).	<b>7111.214</b>



### All-round attachment for universal use

For vertical and horizontal cable routing inside the enclosure or within the distributor level.

U	No. of connection combs	Packs of	Model No.
4	2 pc(s).	4 pc(s).	<b>7111.222</b>
1	5 pc(s).	10 pc(s).	<b>7111.212</b>



### Connection comb

For connecting individual cable routing bars into complete systems (included with the supply).



### Cable duct

#### for TS IT, TE

- High packing density due to U-based cable routing
- Removable duct cover hinged on both sides
- Bayable back-to-back
- Easily installed with tool-free fast assembly on the front and rear 482.6 mm (19") mounting angle of the TS IT
- Screw-fastening optionally supported

#### Material:

- Sheet steel
- Plastic, UL 94-V0

#### Colour:

- RAL 9005

#### Supply includes:

- 2 covers
- 4 cable holders for spare cables
- Assembly parts

For enclosure width mm	For enclosure height mm	U	Packs of	Model No.
800	2000	36	1 pc(s).	<b>5502.105</b>
800	2200	42	1 pc(s).	<b>5502.145</b>



# Cable management

## Cable management 482.6 mm (19")



### Cable finger 6 U

#### for TS IT

- For U-based cable routing
- Simple tool-free assembly
- Cable routing in combination with air baffle plates supported

#### Material:

- Plastic, UL 94-V0

#### Colour:

- RAL 9005

Packs of	Model No.
14 pc(s).	<b>5502.115</b>



### 482.6 mm (19") drawer

#### To accommodate surplus cables

The 1 U drawer offers a convenient opportunity for storing surplus cables in an organised, compact and secure way within the 482.6 mm (19") levels.

- With brush strip at the front for cable routing
- T-head rail in the rear section for cable clamping
- Ring-shaped, kink-free routing of the conductors on adjustable elements in the interior
- May be fitted between two 482.6 mm (19") levels at a distance of 435 – 750 mm, independently of the enclosure system

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

Distance between levels mm	Packs of	Model No.
435 – 750	1 pc(s).	<b>7063.200</b>

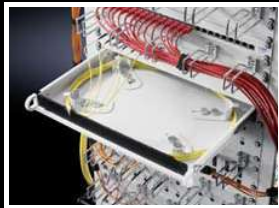
#### Supply includes:

- Drawer including telescopic slides and assembly parts



#### Accessories:

- Nylon loop 7072.220/ 7072.230, see page 785



### Cable management panel

#### With plastic rings

For horizontal management of the patch cables, with 5 cable shunting rings.

Cable shunting rings supplied loose

Width: 482.6 mm (19")

#### Material:

- Panel: Sheet steel
- Rings: Polyamide

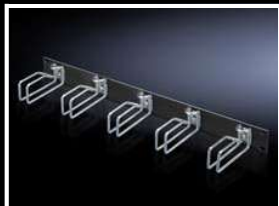
#### Colour:

- RAL 7035

U	Ring size mm	Packs of	Model No.
1	70 x 44	1 pc(s)	<b>7159.035</b>

#### Note:

- The dimensions given are external dimensions



### Cable management panel

#### With steel rings

For horizontal management of the patch cables, with 5 cable shunting rings.

Width: 482.6 mm (19")

#### Material:

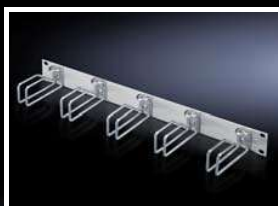
- Panel: Sheet steel
- Rings: Steel

#### Surface finish:

- Rings: Zinc-plated

#### Note:

- The dimensions given are external dimensions



U	Ring size mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
1	43 x 55	■	-	1 pc(s).	<b>7257.200</b>
1	43 x 55	-	■	1 pc(s)	<b>5502.205</b>
1	43 x 105	■	-	1 pc(s).	<b>7257.035</b>
1	43 x 105	-	■	1 pc(s).	<b>7257.005</b>
2	85 x 125	■	-	1 pc(s).	<b>7257.100</b>
2	85 x 125	-	■	1 pc(s).	<b>7257.105</b>

# Cable management

## Cable management 482.6 mm (19")

### Cable management panel with cable routing bars

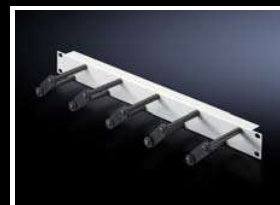
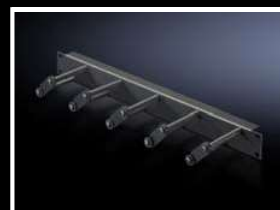
#### 482.6 mm (19")

For horizontal management of the patch cables with 5 cable routing bars. Opening the individual cable routing bars allows user-friendly modification and extension of the cabling.

#### Material:

- Panel: Sheet steel, spray-finished
- Cable routing bars: Plastic

U	Bar depth mm	No. of bars/U	Colour		Packs of	Model No.
			RAL 7035	RAL 9005		
1	approx. 80	5	■	–	1 pc(s).	7257.050
1	approx. 80	5	–	■	1 pc(s).	5502.225



### Cable management panel, 2 U

#### 482.6 mm (19")

The cable routing chamber has cut-outs from above, into which the patch cables can be inserted. The cable management panel is equipped with a flap and quick-release fasteners at the front, for optimum access to the cables. From the rear, the cables can be inserted via a cut-out with brush strips.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

U	Depth mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
2	55	■	–	1 pc(s).	7158.035
2	55	–	■	1 pc(s).	5502.235



### Cable routing channel panel

#### 482.6 mm (19")

To hold the patching cables.

#### Material:

- Sheet steel

#### Surface finish:

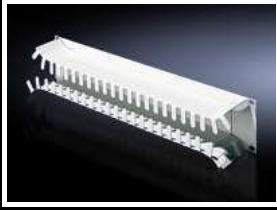
- Spray-finished

U	Depth mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
1	85	■	–	1 pc(s).	7149.135
1	85	–	■	1 pc(s).	5502.245



# Cable management

## Cable management 482.6 mm (19")



### Cable management panel, 2 U

To accommodate fibre-optic and copper cables. Fibres from the patch panels are placed into the tray via openings and may be distributed at the sides. Rounded openings protect the cable sheathing.

Width: 482.6 mm (19")  
Depth: 86.5 mm

**Material:**

– Sheet steel

**Surface finish:**

– Spray-finished

**Colour:**

– RAL 7035

U	Packs of	Model No.
2	1 pc(s).	7269.135



### Cable management duct, horizontal

#### 482.6 mm (19")

The duct facilitates concealed, simple cable routing of large quantities of cables to equipment within the 482.6 mm (19") mounting level. Large cut-outs ensure convenient, kink-free cable routing to the components at the top and bottom. For simple handling, the entire front panel may be removed via quick-release fasteners. After attaching the cables, these are held in position via nylon loop tapes, whilst the duct may be resealed.

Depth: 87.8 mm

**Material:**

– Sheet steel

**Surface finish:**

– Spray-finished

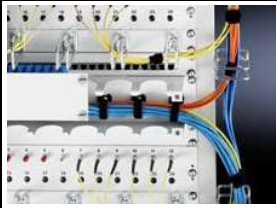
**Colour:**

– RAL 7035

**Supply includes:**

– 5 nylon tapes

U	Packs of	Model No.
2	1 pc(s).	7158.100



### Cable tray, 2 U

For side routing and distribution of fibre-optic and copper cables. In this way, cables inserted into the roof area may be routed at the side of the mounting angles in the upper section of the rack.

Width: 482.6 mm (19")  
Depth: 85 mm

**Material:**

– Sheet steel

**Surface finish:**

– Spray-finished

**Colour:**

– RAL 7035

U	Packs of	Model No.
2	1 pc(s)	7269.235

# Cable management

## Cable management 482.6 mm (19")

### Fibre-optic cable management panel, 1 U

#### 482.6 mm (19")

The four fibre-optic cable shunting rings integrated into the front permit optimum management of up to 48 fibres.

#### Material:

- Panel: Sheet steel
- Rings: Dual compound plastic

#### Colour:

- Panel: RAL 7035
- Cable shunting rings: RAL 7035, black interior

U	Packs of	Model No.
1	1 pc(s).	7256.035

#### Possible alternative:

- Fibre-optic shunting rings 7116.500, see page 789



### Cable entry panel

#### 482.6 mm (19")

Cut-out 390 x 40 mm (2 U) or 390 x 20 mm (1 U) with brush insert.

#### Material:

- Panel: Sheet steel, spray-finished
- Brush strip: Plastic

#### Colour:

- RAL 9005

U	Cut-out mm	Colour	Packs of	Model No.
1	390 x 20	RAL 7035	1 pc(s).	7140.535
1	390 x 20	RAL 9005	1 pc(s).	5502.255
2	390 x 40	RAL 7035	1 pc(s).	7150.535
2	390 x 40	RAL 9005	1 pc(s).	5502.265



### Cable management on the 482.6 mm (19") level

There are various different cable clamping systems available for system-compatible cable routing in 482.6 mm (19") systems with one or two mounting levels:

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### **1** C rail

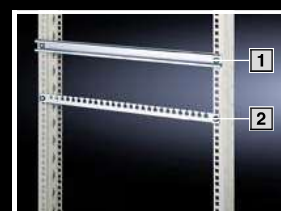
for mounting between all 482.6 mm (19") mounting levels for cable clamps

C rail	Packs of	Model No.
482.6 mm (19") level	6 pc(s).	7016.100

#### **2** Cable clamp rails

for mounting between all 482.6 mm (19") mounting levels for cable ties

Cable clamp rail	Packs of	Model No.
482.6 mm (19") level	6 pc(s).	7016.110



# 482.6 mm (19") installation system

## Swing frame



### Swing frame, small

**Installation for TS, SE, 600 mm and 800 mm wide enclosures**

For mounting 482.6 mm (19") equipment.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Cam with double-bit lock insert and parts for attaching to the installation kit

Installation	Front, top/bottom	Set back, top/bottom	Set back/front, centre
U	Packs of	<b>Model No.</b>	
3	1 pc(s).	<b>2377.030</b>	
6	1 pc(s).	<b>2377.060</b>	
9	1 pc(s).	<b>2377.090</b>	
12	1 pc(s).	<b>2377.120</b>	
15	1 pc(s).	<b>2377.150</b>	
18	1 pc(s).	<b>2377.180</b>	

**Also required:**

		for enclosure width	
		600	800
<b>1</b>	Installation kit	1 set(s)	
		<b>2377.860</b>	<b>2377.880</b>
<b>2</b>	PS punched section without mounting flange, 2 or 4 required	For enclosure depth mm	Page
		400 4 pc(s).	4374.000 722
		500 4 pc(s).	4375.000 722
		600 4 pc(s).	4376.000 722
		800 4 pc(s).	4377.000 722
	Support bracket, 2 required per PS punched section without mounting flange	6 set(s)	8800.330 731
<b>Accessories</b>			
	Lock inserts, type D		2484.000 680

**Note:**

- The swing frame stay is required to lock the open swing frame, see page 799

# 482.6 mm (19") installation system

## Swing frame

### Swing frame, large

Without trim panel, for 600 mm and 1200 mm wide enclosures

For mounting 482.6 mm (19") equipment.

**Material:**

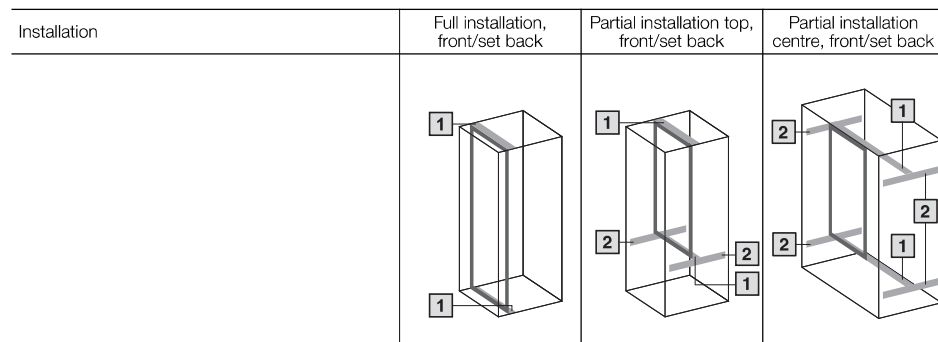
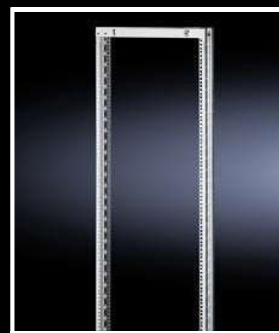
- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Cam with double-bit lock insert and parts for attaching to the installation kit



For enclosure width mm			600	1200
U	For min. enclosure height mm	Packs of	Model No.	
22	1200	1 pc(s).	<b>2322.700</b>	
31	1600	1 pc(s).	<b>2331.700</b>	
36	1800	1 pc(s).	<b>2336.700</b>	
40	2000	1 pc(s).	<b>2340.700</b>	
45	2200	1 pc(s).	<b>2345.700</b>	

Accessories			Page
Lock inserts, type D			2484.000 680

**Also required:**

1] Installation kits					
For enclosure		Hinge	Load capacity	Model No.	Packs of
TS	SE				
■	■	130°	< 1500 N <sup>2)</sup>	<b>1994.835</b>	- 1 pc(s).
■	■	130°	< 1500 N <sup>2)</sup>	-	<b>1996.835</b> 1 pc(s).
■	■	130°	< 1500 N <sup>1)</sup>	-	<b>1996.535</b> 1 pc(s).

<sup>1)</sup> Installation only possible with the mounting plate slide rail dismantled  
<sup>2)</sup> Maximum load 800 N with the TS mounting plate slide rail dismantled

2] For TS, SE:  
 TS punched section with mounting flange 23 x 73 mm, 2 or 4 pc(s). required

**Note:**  
 - The swing frame stay is required to lock the open swing frame, see page 799

Installation in enclosure depth mm	Packs of	Model No.	Page
400	4 pc(s).	8612.040 <sup>1)</sup>	717
500	4 pc(s).	8612.550	718
600	4 pc(s).	8612.560	718
800	4 pc(s).	8612.580	718
1000	4 pc(s).	8612.500	718
1200	4 pc(s).	8612.520	718

<sup>1)</sup> TS punched section with mounting flange, 17 x 73 mm

# 482.6 mm (19") installation system

## Swing frame



### Swing frame, large

**With trim panel, for 800 mm wide enclosures**  
For mounting 482.6 mm (19") equipment.

**Material:**  
– Sheet steel

**Surface finish:**  
– Frame: Zinc-plated  
– Trim panel: Spray-finished

**Colour:**  
– RAL 7035

**Supply includes:**  
– Locking rod system with double-bit lock insert and parts for attaching to the installation kit

Installation	Full installation, width 800 mm, front/set back	Partial installation top, width 800 mm, front/set back	Partial installation centre (in the height), width 800 mm, front/set back

Mounting position	side	central

With hinge			130°/180°	180°
For enclosure width mm			800	
U	For min. enclosure height mm	Packs of	Model No.	
22	1200	1 pc(s).	<b>2323.235</b>	<b>2324.235</b>
31	1600	1 pc(s).	<b>2332.235</b>	–
36	1800	1 pc(s).	<b>2337.235</b>	<b>2338.235</b>
40	2000	1 pc(s).	<b>2341.235</b>	<b>2342.235</b>
45	2200	1 pc(s).	<b>2346.235</b>	<b>2347.235</b>

Heavy-duty version <sup>1)</sup>			Model No.	
U	For enclosure height mm	Packs of		
40	2000	1 pc(s).	<b>7858.100</b>	–

### Accessories

Ergoform-S lock systems	see page 678
Lock inserts, type A	see page 680

### Also required:

[1] Installation kits		Hinge	Load capacity	Model No.	Packs of
For enclosure TS	SE				
■	■	130°	< 1500 N <sup>3)</sup>	<b>1995.235</b>	1 pc(s).
■	■		< 1500 N <sup>2)</sup>	<b>1995.835</b>	1 pc(s).
■	■	180°	< 1200 N <sup>3)</sup>	<b>1997.235</b>	1 pc(s).
■	■		< 1200 N <sup>2)</sup>	<b>1997.835</b>	1 pc(s).

<sup>1)</sup> Load capacity 350 kg, including installation kit, for enclosure height 2000 mm

<sup>2)</sup> Installation only possible with the mounting plate slide rail dismantled

<sup>3)</sup> Maximum load 800 N with the TS mounting plate slide rail dismantled

[2] For TS, SE: TS punched section with mounting flange 23 x 73 mm, 2 or 4 pc(s). required

Installation in enclosure width/depth mm	Packs of	Model No.	Page
400	4 pc(s).	8612.040 <sup>1)</sup>	717
500	4 pc(s).	8612.550	718
600	4 pc(s).	8612.560	718
800	4 pc(s).	8612.580	718
1000	4 pc(s).	8612.500	718
1200	4 pc(s).	8612.520	718

<sup>1)</sup> TS punched section w. mounting flange, 17 x 73 mm

### Note:

– The swing frame stay is required to lock the open swing frame, see page 799



# 482.6 mm (19") installation system

## Swing frame

### Compact swing frame

#### for AE

For mounting slide-in electronic equipment, 482.6 mm (19"), across the entire height.

#### Technical specifications:

- Torsionally stiff frame, welded from rectangular tube and triple-folded support section

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

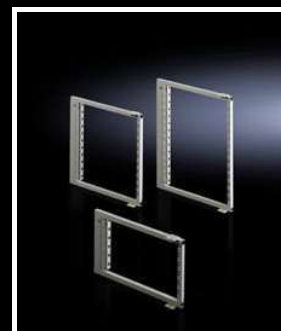
- Double-bit lock insert and assembly parts

Width mm	600	600	600/760
Height mm	380	600	760
U	6	11	14
Packs of	1 pc(s).	1 pc(s).	1 pc(s).
<b>Model No.</b>	<b>2026.200</b>	<b>2027.200</b>	<b>2034.200</b>



#### Accessories:

- 41 mm lock insert, type C, see page 680



### Swing frame stay

Holds the swing frame in the open position.

For mounting on swing frame, large:

- 1979.200, at the top of the enclosure
- 1980.200, at the bottom of the enclosure (with safety stop at 160°)

For mounting on swing frame, small:

- 1979.200, may be mounted at the top or bottom on the installation kit

	Packs of	Model No.
with 130° hinge	5 pc(s).	<b>1979.200</b>
with 180° hinge	1 pc(s).	<b>1980.200</b>



### Slide rails

To support heavy slide-in electronic equipment, 482.6 mm (19") in the swing frame.

#### Material:

- Sheet steel

#### Surface finish:

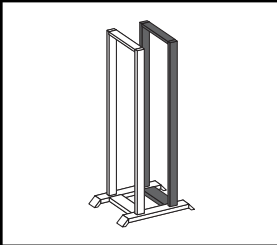
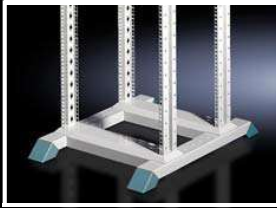
- Zinc-plated

For slide-in equipment with max. installation depth	Packs of	Model No.
D max. < 190 mm	10 pc(s).	<b>1962.200</b>
D max. > 190 mm	10 pc(s).	<b>1963.200</b>



# 482.6 mm (19") installation system

## Accessories for Data Rack



### Second mounting level

To accommodate 482.6 mm (19") network components or for the attachment of component shelves and slide rails. 482.6 mm (19") punched profile at the front, hole centre distance 465 mm (470 mm at the rear), tailored to the attachment of patch panels and cable routing rails. The mounting level may be positioned on a 50 mm pitch pattern. Minimum distance between levels 150 mm, maximum distance between levels 350 mm.

**Material:**

- Sheet steel, 2 mm

**Surface finish:**

- Spray-finished

**Colour:**

- Profile frame: RAL 7035
- Trim panel: RAL 5018

**Supply includes:**

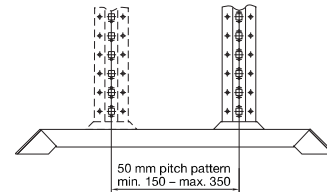
- 1 torsionally stiff profile frame
- Mounting accessories

U	Packs of	Model No.
31	1 pc(s).	<b>7296.000</b>
36	1 pc(s).	<b>7297.000</b>
40	1 pc(s).	<b>7298.000</b>
45	1 pc(s).	<b>7299.000</b>



**Accessories:**

- Support strips, see page 800



### Baying connector

For assembling rows of distributor frames, or for cable routing between data racks.

**Technical specifications:**

- Length: 53 mm

Packs of	Model No.
3 pc(s).	<b>7494.000</b>

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

### Depth stays

For securing and stabilising two 482.6 mm (19") mounting levels in the Data Rack. The length of the depth stays is adjustable, and can accommodate the following spacings of mounting angles: 250, 300 and 350 mm.

Packs of	Model No.
2 pc(s).	<b>7401.000</b>

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

### Continuous slide rail

**for two mounting levels, 482.6 mm (19")**

To support heavy equipment in the Data Rack. The mounting dimensions of the slide rails were selected to enable them to be combined with 500 mm deep, 482.6 mm (19") component shelves. The mounting distance between the 482.6 mm (19") mounting levels is 350 mm.

Packs of	Model No.
2 pc(s).	<b>7402.000</b>

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts



**Also required:**

- Second mounting level, see page 800



**Accessories:**

- Component shelf, 500 mm deep, see page 739

# 482.6 mm (19") installation system

## Mounting angles

### Adaptor sections, 482.6 mm (19")

#### for TS, SE

For the installation of subracks and other equipment. Adaptor sections are easily shortened for partial assemblies.

#### Supply includes:

- Assembly parts

#### Note:

- The 482.6 mm (19") measurement is obtained when mounting on the TS frame for enclosures with width 600 mm

#### ⊕ Accessories:

- Infill panels, see page 802
- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with one-sided mounting, see page 808
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811

#### For enclosure system TS<sup>1)</sup>

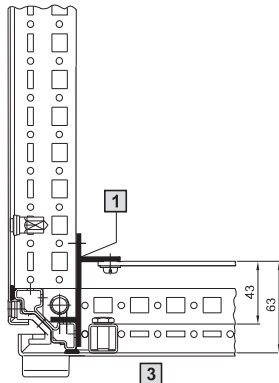
For enclosure height mm	Material	U	Packs of	Model No.
1600	Extruded aluminium section	33	4 pc(s).	<b>8613.060</b>
1800		38	4 pc(s).	<b>8613.080</b>
2000		42	4 pc(s).	<b>8613.000</b>

<sup>1)</sup> For the rear of electronic enclosures, see page 802

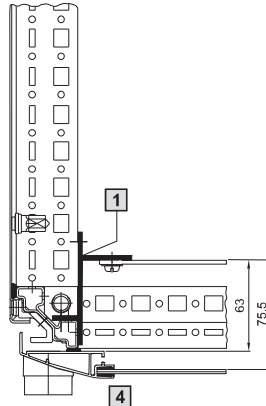


#### Mounting examples for TS:

Drawing 1



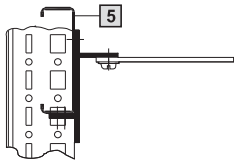
Drawing 2



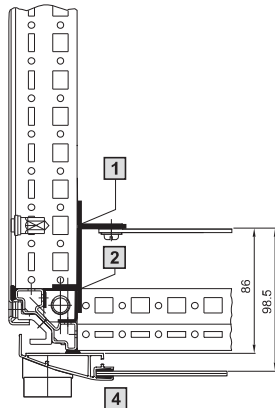
Drawing 1 and 2:

Adaptor section or adaptor piece fitted in the foremost installation position, directly on the vertical section. When installing slide rails with two-sided mounting (see page 808), the same sections or adaptor pieces must also be mounted on the vertical section at the rear.

Drawing 3



Drawing 5



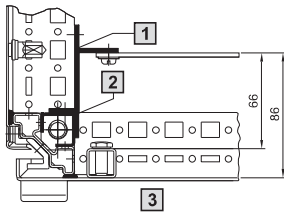
Drawing 3:

Mounting on two vertically installed PS punched sections permits fully flexible use of the enclosure depth.

Drawing 4 and 5:

Greater distance from the door is achieved by mounting on adaptor rails for PS compatibility. In this position, the slide rails can be fitted with one-sided mounting.

Drawing 4

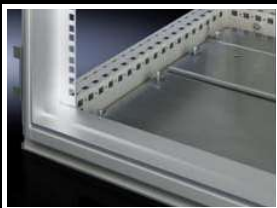


- 1 Adaptor section/piece
- 2 Adaptor rail
- 3 TS sheet steel door

- 4 TS glazed door
- 5 Punched sections without mounting flanges

# 482.6 mm (19") installation system

## Mounting angles



### Adaptor pieces, 482.6 mm (19")

#### for TS, SE

The "1 U" sub-section of adaptor sections. For the installation of individual subracks and other equipment.

#### Supply includes:

- Assembly parts

#### Assembly examples:

May be found on page 801

#### Note:

- The 482.6 mm (19") measurement is obtained when mounting on the TS frame for enclosures with width 600 mm
- Adaptor set 7246.100 for 800 mm wide enclosures, see page 809

U	Packs of	Model No.
1	4 pc(s).	<b>8613.010</b>

#### ⊕ Accessories:

- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811

### Adaptor sections, 482.6 mm (19")

#### for TS electronic enclosure, rear

For installing subracks on both sides, and for attaching slide rails 8613.150, 8613.160 and 8613.180 (see page 808).

For mounting on the inner mounting level. The outer mounting level may, for example, still be used for cable routing on depth-mounted TS punched sections with mounting flange.

#### Material:

- Extruded aluminium section

#### Supply includes:

- Assembly parts

#### Note:

- Design similar to adaptor sections, 482.6 mm (19"), see page 801, but asymmetrical height, suitable for TS electronic enclosure

For enclosure height mm	U	Packs of	Model No.
1600	33	2 pc(s).	<b>8613.360</b>
2000	42	2 pc(s).	<b>8613.300</b>

#### ⊕ Accessories:

- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811

#### ⇄ Possible alternative:

- Adaptor pieces, 482.6 mm (19"), see page 802

### Infill panels, 482.6 mm (19"), horizontal

#### for adaptor sections

To infill between installed 482.6 mm (19") equipment positioned in the full enclosure height and the enclosure clearance height.

#### Material:

- Extruded aluminium section

#### Supply includes:

- Assembly parts

For enclosure height mm	Packs of	Model No.
1600/2000	2 pc(s).	<b>8613.040</b>
1800/2200	2 pc(s).	<b>8613.030</b>

### Mounting angles 482.6 mm (19")

#### for Outdoor enclosures

For mounting 482.6 mm (19") components in outdoor enclosures. The mounting angles are depth-adjustable on a 25 mm pitch pattern. A depth stay is required to attach the mounting angles.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

For enclosure height mm	U	Packs of	Model No.
1200	24	2 pc(s).	<b>7688.000</b>

#### Supply includes:

- Mounting accessories

#### ⚠ Also required:

Depth stays, see page 803

# 482.6 mm (19") installation system

## Mounting angles

### Depth stays

for mounting angles 482.6 mm (19")

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Mounting accessories

For enclosure width mm	Installation (centre)	Packs of	Model No.
600/1200	482.6 mm (19")	2 pc(s).	<b>7696.000</b>
800	482.6 mm (19")/ metric	2 pc(s).	<b>7698.000</b>



### Mounting frame, 482.6 mm (19")

for TS, TS IT

Firmly linked 482.6 mm (19") mounting frame for integration of a 482.6 mm (19") mounting level within a TS frame structure. Profiles analogous to TS IT for complete system compatibility, incl. tool-free assembly. Depth-variable mounting between the roof and base frames. Individual height units bidirectionally numbered. Mounting frame at the front, prepared for the integration of cable management and Dynamic Rack Control (RFID), mounting frame at the rear for space-saving integration of the PDU busbar, in the Zero-U space on both sides.

**Material:**

- Sheet steel

**Surface finish:**

- Primed

**Colour:**

- RAL 9005

**Load capacity:**

- Up to 10,000 N static load, with even load distribution on two 482.6 mm (19") mounting frames, fully configured

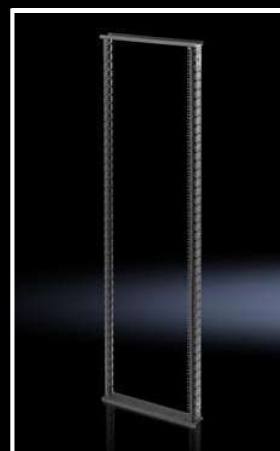
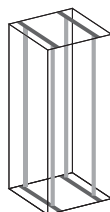
**Supply includes:**

- Assembly parts

**Note:**

- The outer mounting level of the enclosure frame is left free for other installed equipment; all-round compartmentalisation with air baffle plates is supported

For enclosure width mm	For enclosure height mm	Installation position	Packs of	Model No.
600	1800	front	1 pc(s).	<b>5501.242</b>
600	1800	rear	1 pc(s).	<b>5501.245</b>
800	1800	front	1 pc(s).	<b>5501.252</b>
800	1800	rear	1 pc(s).	<b>5501.255</b>
600	2000	front	1 pc(s).	<b>5501.262</b>
600	2000	rear	1 pc(s).	<b>5501.265</b>
800	2000	front	1 pc(s).	<b>5501.272</b>
800	2000	rear	1 pc(s).	<b>5501.275</b>
600	2200	front	1 pc(s).	<b>5501.282</b>
600	2200	rear	1 pc(s).	<b>5501.285</b>
800	2200	front	1 pc(s).	<b>5501.292</b>
800	2200	rear	1 pc(s).	<b>5501.295</b>



### Additional fastening attachment for mounting angles

for TS IT

Prevents the mounting angles from twisting in case of unevenly distributed loads. Secured directly between the mounting angle and a mounting section on the outer mounting level of the TS frame structure.

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Supply includes:**

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	<b>5501.225</b>
800	2 pc(s).	<b>5501.235</b>



**Also required:**

- TS punched section with mounting flange, 17 x 73 mm, see page 717



**Assembly instruction:**

- For the outer mounting level, the TS punched section with mounting flange 17 x 73 mm is additionally required



# 482.6 mm (19") installation system

## Mounting angles



### Mounting angles, 482.6 mm (19")

#### for TS

#### L-bracket

The L-shaped mounting angles accommodate the installation kits of server systems. The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19") attachment level.

#### Technical specifications:

- Integral 482.6 mm (19") punchings (EIA standard)
- Side punchings, round and square

#### Material:

- Sheet steel, 2 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

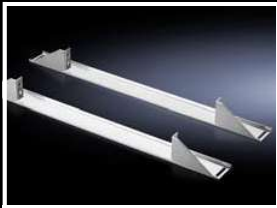
Full installation rack height mm	U	Packs of	Model No.
1800	38	2 pc(s).	<b>7827.181</b>
2000	42	2 pc(s).	<b>7827.201</b>
2200	47	2 pc(s).	<b>7827.221</b>

#### ! Also required:

- TS punched sections with mounting flanges or TS installation brackets as installation kit for mounting angles, see page 804

#### + Accessories:

- Additional fastening attachment for L-shaped mounting angles 7284.135, see page 805
- 482.6 mm (19") fastener, 1 U, 2090.000, see page 815
- Attachment of component shelves: Adaptor 7827.300, see page 746



### Installation bracket TS

#### for L-shaped mounting angles into TS, 482.6 mm (19")

#### Installation in enclosure width 800 mm

The installation brackets are screw-fastened to the enclosure frame in the enclosure width.

The mounting angle is attached to the installation bracket at the top and bottom. The brackets ensure optimum clearance at the sides for cable routing. For partial enclosure configuration, the installation brackets may be attached to the TS punched sections with mounting flanges 17 x 73 mm on the outer and inner mounting level of the enclosure frame.

Fully depth-variable mounting is facilitated by the attachment slots.

Installation position	Packs of	Model No.
Centred	2 pc(s).	<b>7827.480</b>

#### Material:

- Sheet steel

#### Surface finish:

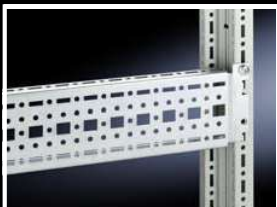
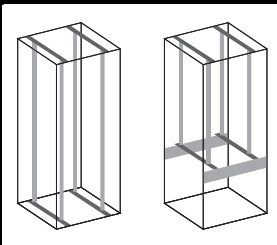
- Zinc-plated

#### Supply includes:

- Assembly parts

#### + Accessories:

- For partial installation, TS punched section with mounting flange, see page 717 – 718
- For partial installation, L-shaped mounting angles, see page 804



### TS punched section with mounting flange as installation kit

#### for L-shaped mounting angles into TS, 482.6 mm (19")

#### Installation in enclosure width 600 mm

The installation kit consists of 4 TS punched sections with mounting flange 17 x 73 mm to accommodate mounting angles. One pack is sufficient for installing one or two 482.6 mm (19") mounting levels. For exceptionally heavy installed equipment, we recommend the installation of additional punched sections in the centre.

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	<b>8612.060</b>
600	800	4 pc(s).	<b>8612.080</b>
600	1000	4 pc(s).	<b>8612.000</b>
600	1200	4 pc(s).	<b>8612.020</b>

#### Material:

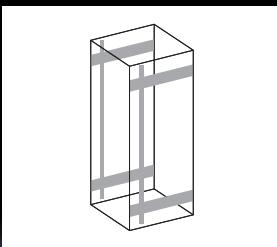
- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts



# 482.6 mm (19") installation system

## Mounting angles

### Additional fastening attachment for mounting angles

#### for L-shaped mounting angles in TS

The additional fastening attachment prevents the mounting angles mounted on installation brackets from twisting in case of unevenly distributed loads. It is attached directly to 482.6 mm (19") mounting angles and to the punched section with mounting flange fitted in the depth (inner mounting level).

#### Material:

- Sheet steel

#### Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
800	2 pc(s).	7284.135



#### Also required:

- TS punched section with mounting flange for the inner mounting level, see page 717 – 718



### Mounting kit, 2 U

#### for 482.6 mm (19") equipment

Facilitates fast, simple integration of additional 2 U mounting space within an enclosure by attaching to the enclosure frame or to the existing mounting angles at the sides. The flexible slot fastening of the brackets means that the distance between the two installation brackets may be freely selected, to facilitate other 482.6 mm (19") mounting dimensions. The second row of holes is used for the optional configuration of additional mounting surfaces.

Packs of	Model No.
2 pc(s).	7246.420

#### Material:

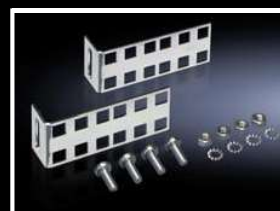
- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts



### Mounting angles, 482.6 mm (19")

#### for FlatBox

L-shaped bracket as 2nd mounting level

#### Material:

- Sheet steel, spray-finished

#### Supply includes:

- Assembly parts for fast, tool-free assembly

U	Packs of	Model No.
6	2 pc(s).	7507.706
9	2 pc(s).	7507.709
12	2 pc(s).	7507.712
15	2 pc(s).	7507.715
18	2 pc(s).	7507.718
21	2 pc(s).	7507.721

#### Note:

- The 2nd mounting level should always be ordered in the same height as the basic enclosure
- Partial configuration is not possible



### Adhesive measurement strip, 482.6 mm (19")

Made from robust aluminium foil, guarantees easy handling and durability. With numerical labelling on an imperial pitch pattern for clear identification of the various height units. The double-sided labelling allows the counting direction to be freely selected, up to a maximum of 56 U. In this way, clear documentation of the various mounting parts is easily achieved.

#### Material:

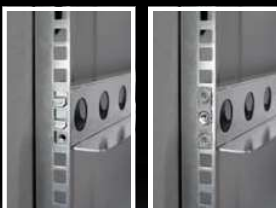
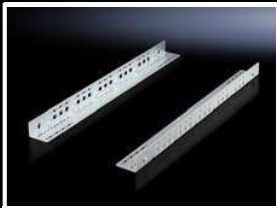
- Aluminium foil

U labelling range	Packs of	Model No.
1 – 56	1 pc(s).	7950.100



# 482.6 mm (19") installation system

## Slide rails



### Slide rails, static installation

#### for TS IT

For mounting on one 482.6 mm (19") mounting level.

- System punchings for mounting accessories and cooling active components

#### Load capacity:

- 30 kg, static

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

U	Length mm	Packs of	Model No.
2	150	2 pc(s).	<b>5501.400</b>

### Slide rails, static installation

#### for TS IT

For mounting on two 482.6 mm (19") mounting levels.

- To support heavy installed equipment.
- Side system punchings for mounting accessories and cooling components that expel to the side
- Simply locate into the system punchings of the TS IT

#### Load capacity:

- 80 kg, static

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### Note:

- Effective contact surface 35 mm per side

U	Distance between 482.6 mm (19") levels mm	Packs of	Model No.
1	345	2 pc(s).	<b>5501.410</b>
1	445	2 pc(s).	<b>5501.420</b>
1	545	2 pc(s).	<b>5501.430</b>
1	645	2 pc(s).	<b>5501.440</b>
1	745	2 pc(s).	<b>5501.450</b>

### Slide rails, heavy-duty

#### for TS IT, TE

With L-shaped mounting angles or 482.6 mm (19") mounting frames and a clearance between levels of 745 mm. Easily and quickly installed thanks to locating brackets for the rear level.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Load capacity (static):

- 1000 N

#### Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	Model No.
745	50	734	2 pc(s).	<b>7063.740</b>



# 482.6 mm (19") installation system

## Slide rails

### Slide rails, static installation

#### for TE

For mounting between the front and rear 482.6 mm (19") mounting levels. The slide rails can be used to support heavy 482.6 mm (19") components.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Load capacity (static):

- 800 N

#### Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	Model No.
395	85	324	2 pc(s).	<b>7963.310</b>
495	85	424	2 pc(s).	<b>7963.410</b>
595	85	524	2 pc(s).	<b>7963.510</b>
695	85	624	2 pc(s).	<b>7963.610</b>
795	85	724	2 pc(s).	<b>7963.710</b>



### Slide rails, depth-variable

#### 482.6 mm (19") for TS IT, TE

For mounting between the front and rear mounting level.

- To support heavy installed equipment
- To adapt to individual distances between 482.6 mm (19") levels
- Tool-free, time-saving one-man assembly from the enclosure front
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment
- Alternatively, direct attachment to the 482.6 mm (19") system punchings is also possible

Distance between 482.6 mm (19") levels mm	Load capacity kg	Packs of	Model No.
400 – 600	80	2 pc(s).	<b>5501.460</b>
600 – 900	150	2 pc(s).	<b>5501.480</b>

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### Note:

- Effective contact surface 25 mm per side



### Slide rails, depth-variable, 1 U

#### for TS, SE

For direct attachment to the 482.6 mm (19") system punchings without additional loss of U. The slide rails are pulled out to the required length and secured between the front and rear mounting level on the 482.6 mm (19") pitch pattern.

#### Load capacity:

- 20 kg static load

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Support surface mm	Packs of	Model No.
390 – 550	30	2 pc(s).	<b>7063.750</b>
550 – 750	30	2 pc(s).	<b>7063.752</b>

#### Note:

- Thanks to the thin support area of only around 0.8 mm thickness, exceeding the U pitch pattern is generally avoided, provided the components do not exceed a maximum height of 43.5 mm. This means that several devices are easily arranged on top of one another without offsetting.
- Not to be combined with cranked mounting angles



# 482.6 mm (19") installation system

## Slide rails



### Slide rails

#### for TS adaptor section

**With two-sided mounting** between the 482.6 mm (19") front and rear adaptor sections, 482.6 mm (19") or adaptor pieces, 482.6 mm (19").

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

For enclosure depth mm	Packs of	Model No.
500	10 pc(s).	<b>8613.150</b>
600	10 pc(s).	<b>8613.160</b>
800	10 pc(s).	<b>8613.180</b>



**Also required:**

- Adaptor sections, 482.6 mm (19"), see page 801, or
- Adaptor pieces, 482.6 mm (19"), see page 802



### Slide rails

#### for TS adaptor section

**With one-sided mounting** on the 482.6 mm (19") adaptor sections

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

Length mm	Packs of	Model No.
270	10 pc(s).	<b>4531.000</b>



**Also required:**

- Adaptor sections, 482.6 mm (19"), see page 801

# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Server telescopic slides

Guarantee optimum accessibility to the units, even when built-in. For a maximum enclosure width of 426 mm.

**Load capacity:**

- 30 kg

**Material:**

- Sheet steel

**Supply includes:**

- 2 telescopic slides,
- installation kit,
- assembly parts

For enclosure depth mm	Maximum extension mm	Model No.
600	511.2	<b>3659.180</b>
800	596.4	<b>3659.190</b>

**Note:**

- May only be fitted in conjunction with L-shaped 482.6 mm (19") sections.



### Adaptor kit, 3 U

**for 800 mm wide TS enclosures**

For fastening individual 482.6 mm (19") components, or as an additional mounting facility at the rear of the enclosure. The mounting level in the adaptor angle can be adjusted in 25 mm increments by up to 100 mm in the depth, leaving sufficient space for baying where patch panels or splicing boxes are used. Attachment is on the inner mounting level of the frame section or a suitable chassis in the enclosure depth.

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

Height	Mounting position	Packs of	Model No.
3 U	Centred	2 pc(s).	<b>7246.100</b>



### Adaptor, 3 U

**Depth offset 100 mm**

The adaptor is used to recess 482.6 mm (19") mounting of equipment inside enclosures with 482.6 mm (19") installation in the foremost position, such as server or electronic enclosures. In this way, sufficient space can be gained in front of the mounting equipment to integrate patch panels or switches, whilst at the same time exploiting the maximum enclosure depth.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

Packs of	Model No.
2 pc(s).	<b>7246.400</b>



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Adaptor, metric to 21"/19"

With this adaptor, 482.6 mm (19") assemblies may be fastened to metric (535 mm) mounting angles, or combined systems may be configured.

**Material:**

- Extruded aluminium section

**Supply includes:**

- Assembly parts

SU	U	Packs of	Model No.
2	1	2 pc(s).	<b>7246.010</b>
6	3	2 pc(s).	<b>7246.030</b>
11	6	2 pc(s).	<b>7246.060</b>



### Drawer, 2 U, 3 U

**for one 482.6 mm (19") mounting level**

For front attachment to mounting angles, 482.6 mm (19"). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small version of the 2 U variant is also suitable for mounting inside a swing frame.

**Material:**

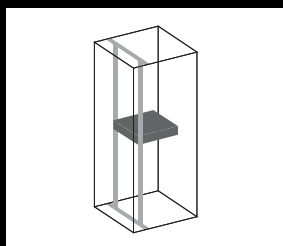
- Sheet steel

**Supply includes:**

- Drawer fully assembled including security lock 12321



Height	Clearance openings		Installation depth mm	Colour		Packs of	Model No.
	Width mm	Depth mm		RAL 7035	RAL 9005		
2 U	411	244	250	■	-	1 pc(s).	<b>7282.135</b>
2 U	411	419	427	■	-	1 pc(s).	<b>7282.035</b>
2 U	411	419	427	-	■	1 pc(s).	<b>5502.305</b>
3 U	411	419	427	■	-	1 pc(s).	<b>7283.035</b>
3 U	411	419	427	-	■	1 pc(s).	<b>5502.325</b>



### Small equipment box, 4 U, shielded

**for one 482.6 mm (19") mounting level**

For accommodation of small equipment and other accessories within a partitioned 482.6 mm (19") installation level. The small equipment box contains an adjustable mounting base which can be used to further sub-divide the box.

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Load capacity:**

- 200 N surface load, static

**Supply includes:**

- Small equipment box with brush strip
- 1 shelf



Contact width mm	Contact depth mm	Width mm	Height mm	Depth mm	Packs of	Model No.
405	300	427	170	400	1 pc(s).	<b>5501.900</b>

# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Installation kit

#### for component shelves with 482.6 mm (19") adaptor sections in TS

For installation between the front and rear adaptor sections or adaptor pieces, 482.6 mm (19") in 600 mm wide enclosures.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### For enclosure system TS

For enclosure depth mm	Packs of	Model No.
600	2 pc(s).	<b>8800.560</b>
800	2 pc(s).	<b>8800.580</b>

Max. depth of component shelves = Enclosure depth - 100 mm



#### Also required:

- Adaptor sections, 482.6 mm (19"), see page 801, or
- Adaptor pieces, 482.6 mm (19"), see page 802
- Component shelf, 48.2 mm (19") installation 7144.035, 7145.035, see page 741



### Blanking plates, 482.6 mm (19")

For installation in electronic enclosures or housings.

#### Material:

- Aluminium

#### Surface finish:

- Natural anodised

U	Packs of	Model No.
1	3 pc(s).	<b>1931.200</b>
2	3 pc(s).	<b>1932.200</b>
3	3 pc(s).	<b>1933.200</b>
4	3 pc(s).	<b>1934.200</b>
6	3 pc(s).	<b>1936.200</b>
7	3 pc(s).	<b>1935.200</b>
9	3 pc(s).	<b>1939.200</b>
12	3 pc(s).	<b>1937.200</b>



### Hinge

#### for blanking plates

#### Material:

- Die-cast zinc

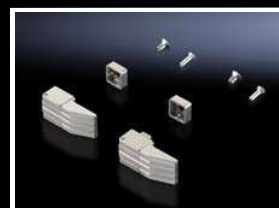
#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Packs of	Model No.
2 pc(s)	<b>1950.000</b>



### Ventilated front panels

For venting enclosures and housings.

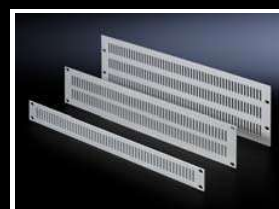
#### Material:

- Aluminium

#### Surface finish:

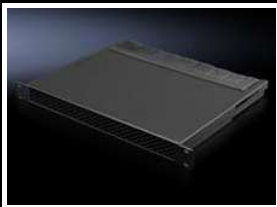
- Natural anodised

Width	U	Packs of	Model No.
482.6 mm (19")	1	3 pc(s).	<b>2231.000</b>
482.6 mm (19")	2	3 pc(s).	<b>2232.000</b>
482.6 mm (19")	3	3 pc(s).	<b>2233.000</b>



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Air baffle plates

#### for TS IT 482.6 mm (19") mounting angles

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system
- With all-round brush strip for collision-free shielding with installed rail systems on the outer mounting level

#### Material:

- Sheet steel
- Plastic, UL 94-V0

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

For enclosure width mm	For enclosure height mm	Product-specific scope of supply	Packs of	Model No.
600	2000	-	1 pc(s).	<b>5501.805</b>
800	2000	6 blanking panels, 1 U	1 pc(s).	<b>5501.815</b>
600	2200	-	1 pc(s).	<b>5501.825</b>
800	2200	6 blanking panels, 1 U	1 pc(s).	<b>5501.835</b>

### Air baffle plates

#### for TS IT 482.6 mm (19") mounting frames

With all-round brush strip for collision-free shielding with installed rail systems on the outer mounting level.

#### Applications:

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system

#### Material:

- Sheet steel
- Blanking panel: Plastic, to UL 94-V0
- Brush strip: Plastic, UL 94-V0

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Air baffle plate with all-round brush strip
- Assembly parts

For enclosure width mm	For enclosure height mm	Product-specific scope of supply	Packs of	Model No.
600	1200	-	1 pc(s).	<b>5501.855</b>
800	1200	1 blanking panel, 3 U	1 pc(s).	<b>5501.865</b>
600	1800	-	1 pc(s).	<b>5501.875</b>
800	1800	2 blanking panels, 3 U	1 pc(s).	<b>5501.885</b>
600	2000	-	1 pc(s).	<b>5501.905</b>
800	2000	2 blanking panels, 3 U	1 pc(s).	<b>5501.915</b>
600	2200	-	1 pc(s).	<b>5501.925</b>
800	2200	2 blanking panels, 3 U	1 pc(s).	<b>5501.935</b>

### 482.6 mm (19") air duct

#### for horizontal air routing

Air duct, passive, for cold air intake to 482.6 mm (19") IT equipment installed at the rear of server racks which draws in air from the front.

#### Benefits:

- For superior air infeed to the rear 482.6 mm (19") components
- Integral brush strip for cable entry of 482.6 mm (19") IT equipment
- Supports front-to-back air routing
- Depth-variable

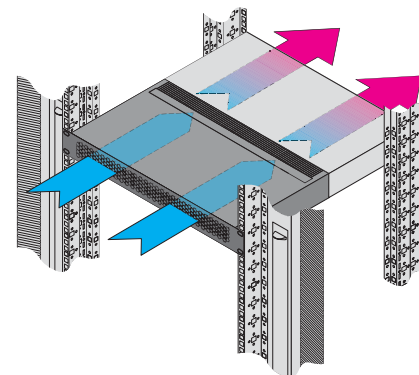
#### Material:

- Sheet steel, spray-finished

#### Colour:

- RAL 9005

Width mm	Height U	Depth mm	Packs of	Model No.
482.6	1	223 - 356	1 pc(s).	<b>3301.391</b>



# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Air duct

#### for side air routing

Air duct, passive, for cold air intake to 482.6 mm (19") equipment with side air inlet.

#### Benefits:

- For superior air infeed to the rear 482.6 mm (19") equipment with side air routing
- Integral membrane cover allows cable entry to the rear
- Depth-variable

#### Installation options:

- for TS IT 482.6 mm (19") mounting angles
- for TS IT 482.6 mm (19") mounting frames

#### Material:

- Sheet steel, spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Adaptor for attaching to 482.6 mm (19") mounting angles
- Magnetic strip to cover the remaining vertical openings in the air baffle plate



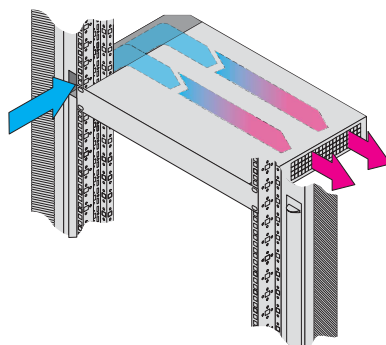
#### Also required:

- Air baffle plates for TS IT 482.6 mm (19") mounting frames, see page 812
- Air baffle plates for TS IT 482.6 mm (19") mounting angles, see page 812



#### Assembly instruction:

- Only suitable for fitting on the front 482.6 mm (19") installation level



Height U	Depth mm	For enclosures	For enclosure width mm	Packs of	Model No.
2	275 – 418	TS IT	800	1 pc(s).	<b>3301.392</b>

### Cover, magnetic

For optionally covering the front system punchings in the event of complete air blocking of the front, or in the absence of installed cable fingers or dynamic rack control strip.

With numerical labelling on an imperial pitch pattern for clear identification of the various height units.

The double-sided labelling allows the counting direction to be freely selected from 1 – 56 U.

Length m	Packs of	Model No.
5	1 pc(s).	<b>5501.895</b>



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Brush strip, vertical

#### for TS IT, TE

Within the network distributor, this serves as a flexible infill panel which stylishly conceals the cable management area to the side of the 482.6 mm (19") mounting level. The brush strip facilitates convenient cable routing from the side and rear distributor area to the front connection level. The clearance required in front of the mounting level is at least 75 mm.

Within the TS, the brush strip is mounted at the side on the vertical frame section, on horizontal or vertical punched sections. There is an additional mounting option directly on the 482.6 mm (19") mounting frame of the TS IT.

#### Material:

- Aluminium section with brush strip:  
Plastic, UL 94-V0

#### Supply includes:

- Length 950 mm each

For enclosure height mm	Packs of	Model No.
2000	4 pc(s).	<b>7827.544</b>

### Mounting panel 482.6 mm (19"), 2 U

For fast integration of smaller mounting units within the 482.6 mm (19") level, such as potential equalisation rails, distributor boxes, small electrical components etc.

Simple screw-fastening of the components to the integral 25 mm system punchings.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

Panel height U	Panel width mm	Packs of	Model No.
2	450	1 pc(s).	<b>7151.300</b>



# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Support

#### for small appliances

For secure attachment of non-482.6 mm (19")-compliant small appliances such as modems, power packs, routers etc. Angular support for mounting in the free space at the side between the 482.6 mm (19") level and the side panel on L-shaped mounting angles, mounting frames or punched sections. Attachment of the components and connection cables can be achieved quickly and easily using nylon tape or cable ties. Also suitable for cable routing in the enclosure depth.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

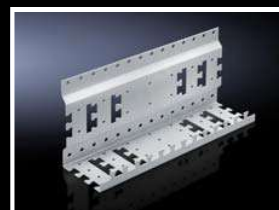
#### Supply includes:

- Assembly parts

W x H x D mm	Packs of	Model No.
350 x 150 x 97	1 pc(s).	7246.500

#### ⊕ Accessories:

- Nylon loop, see page 785
- Cable ties, see page 785



### 482.6 mm (19") fastener, 1 U

#### With contact

For simple screw connection of installation components within the 482.6 mm (19") mounting level. Simply slide onto the mounting angle from the inside and lock home.

#### Benefits:

- Fast positioning and installation instead of using individual cage nuts
- Integral contacting for potential equalisation
- Preconfigured 1 U support with 3 cage nuts, including centre attachment to standard EIA 310
- Supports multiple dismantling and reuse

#### Material:

- Sheet steel, zinc-plated

#### Note:

- All enclosures in the Rittal range have already been tested within their tolerances for the use of 482.6 mm (19") fasteners. Suitability for use in enclosures from other manufacturers cannot be guaranteed.

Thread	Packs of	Model No.
M5	24 pc(s).	2090.000

#### ! Also required:

- Assembly screws, see page 816
- Multi-tooth screws 7094.130, see page 816



### Cage nuts M5/M6

For the attachment of rack-mounted electronic equipment, 482.6 mm (19") installed equipment and blanking plates to mounting angles, 482.6 mm (19"). For use with metal thickness from 0.8 – 2.0 mm. In areas of narrow tolerance, cage nuts for metal thicknesses of 1.2 – 1.5 mm should be used. Optionally with or without contact of the installed equipment to the 482.6 mm (19") section/enclosure.

#### Cage nut M5

Version	For metal thicknesses mm	Packs of	Model No.
With contact	0.8 – 2.0	50 pc(s).	2094.500
Without contact	0.8 – 2.0	50 pc(s).	2092.500

#### Cage nut M6

Version	For metal thicknesses mm	Packs of	Model No.
With contact	0.8 – 2.0	50 pc(s).	2094.200
Without contact	0.8 – 2.0	50 pc(s).	2092.200
With contact	1.2 – 1.5	50 pc(s).	2094.300
Without contact	1.2 – 1.5	50 pc(s).	2092.300



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Multi-tooth screws

#### M5 x 16 mm/M6 x 16 mm

For optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

#### Supply includes:

- 50 plastic washers
- 50 assembly screws

	Bit size	Packs of	Model No.
M5	Multi-tooth 25	50 pc(s).	<b>7094.130</b>
M6	Multi-tooth 30	50 pc(s).	<b>7094.140</b>



### Assembly screws

#### M5 x 16 mm/M6 x 16 mm

For electronic equipment, 482.6 mm (19") installed components and blanking plates.

#### Supply includes:

- 50 plastic washers
- 50 assembly screws

Version	Packs of	Model No.
Phillips-head screw M5	50 pc(s).	<b>7094.120</b>
Cheese-head screw M6	50 pc(s).	<b>7094.110</b>
Phillips-head screw M6	50 pc(s).	<b>7094.100</b>



### Front-mounting cage nut, 482.6 mm (19")

The front-mounting cage nut consists of an expanding cage which is simply inserted into the square attachment hole at the front and then secured with the assembly screw.

When tightening the screw, the cage expands and thus secures the required components.

Clamping range from 1.2 – 4.5 mm.

Multi-tooth screw head, bit size T 30.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- 50 expanding cages
- 50 assembly screws
- 50 plastic washers

Dimensions mm	Size of mounting hole mm	Packs of	Model No.
M6 x 16	9.5 x 9.5	50 pc(s).	<b>2094.400</b>



### Spring nuts with screws

#### M6 x 10 mm for T-slot mounting angle

The spring nuts ensure flexible, secure mounting of accessory components on the T-slot mounting angles.

#### Supply includes:

- 50 spring nuts
- 50 screws, 10 mm, self-locking

Version	Packs of	Model No.
Phillips-head, M6	50 pc(s).	<b>7000.990</b>

# 482.6 mm (19") installation system

## Patch panels

### Blanking panel, 482.6 mm (19")

As an extension cover or for population as required.

**Material:**

- Sheet steel

**Colour: RAL 7035**

U	Installation height mm	Packs of	Model No.
1	44	2 pc(s).	<b>7151.035</b>
1.5	66	2 pc(s).	<b>7157.035</b>
2	88	2 pc(s).	<b>7152.035</b>
3	132.5	2 pc(s).	<b>7153.035</b>
6	266	2 pc(s).	<b>7156.035</b>

**Colour: RAL 9005**

U	Installation height mm	Packs of	Model No.
1	44	2 pc(s).	<b>7151.005</b>
2	88	2 pc(s).	<b>7152.005</b>
3	132.5	2 pc(s).	<b>7153.005</b>
6	266	2 pc(s).	<b>7156.005</b>



### Blanking panel, 3 U

**Tool-free attachment, 482.6 mm (19")**

The blanking panel is used to seal unused areas within the 482.6 mm (19") mounting level. Quick tool-free attachment means that it is easily integrated anywhere, and can also be removed again if necessary. The consistent use of blanking panels ensures targeted air routing in partially populated racks.

**Benefits:**

- Fire protection: Self-extinguishing to UL 94 HB
- May be adjusted individually to size by snapping off prepunched 1 U elements
- Each individual element is self-supporting and may therefore be combined into larger units in conjunction with other elements

Packs of	Model No.
3 pc(s).	<b>7151.305</b>

**Material:**

- Plastic

**Colour:**

- RAL 9005

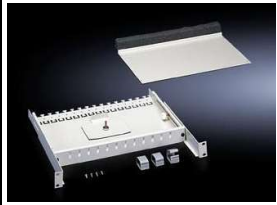
**Supply includes:**

- Blanking panel, 3 U, with integral quick-fastening



# 482.6 mm (19") installation system

## Splicing boxes



### Fibre-optic splicing box, depth-variable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps.

The splicing box is infinitely depth-adjustable up to 100 mm within the 482.6 mm (19") flanges. In addition, the splicing box may be fully withdrawn from the 482.6 mm (19") flanges. Two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	<b>7241.005</b>

#### Installation depth:

- 302 mm

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Supply includes:

- Splicing box
- 3 cable routing clips
- Cassette cover
- Mounting accessories for patch panel

#### Note:

- Supplied without patch panel and splicing cassettes



#### Also required:

- Patch panels for fibre-optic splicing box, depth-variable, see page 818



### Fibre-optic breakout box, 1 U

For splice-free cabling of fibre-optic breakout cables.

Cable bundles may be clamped onto the T-heads at the rear. 4 self-adhesive cable routing clips are supplied loose for cable clamping and for storing excess lengths inside the box.

Installation depth	Packs of	Model No.
250 mm	1 pc(s).	<b>7241.500</b>



#### Also required:

- Patch panels for fibre-optic breakout box, see page 818

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Supply includes:

- Breakout box
- Cable routing clips
- Mounting accessories for patch panel



## Patch panels

for

- Fibre-optic splicing box, depth-variable
- Fibre-optic breakout box, 1 U

With cut-outs for population with fibre-optic couplings.

For coupling	No. of locations	U	Packs of	Model No.
E-2000, E-2000 duplex <sup>1)</sup> , SC or LC duplex	24	1	1 pc(s).	<b>7241.024</b>
SC duplex, LC quad	12	1	1 pc(s).	<b>7241.045</b>

<sup>1)</sup> For E-2000 duplex, only half of the locations are available

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

# 482.6 mm (19") installation system

## Splicing boxes

### Fibre-optic splicing box with telescopic pull-out

#### Lockable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The telescopic pull-out provides optimum access to the splicing cassettes and cable clamp. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The security lock fitted at the front protects against unauthorised access. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps; two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.



#### Also required:

- Patch panels for fibre-optic splicing box, lockable, see page 819

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	<b>7170.535</b>
2	4	1 pc(s).	<b>7470.535</b>

#### Installation depth:

- 363 mm

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Supply includes:

- Splicing box
- 3 cable routing clips
- Security lock
- Cassette cover
- Mounting accessories for patch panel

#### Note:

- Supplied without patch panel and splicing cassettes



### Patch panels

#### for fibre-optic splicing box, lockable

For splicing boxes, there is a choice of multiple panels with different cut-outs for the installation of single or duplex fibre-optic couplings.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Note:

- For E-2000 duplex only half of the locations are available



For coupling	No. of locations	U	Packs of	Model No.
ST	24	2	1 pc(s).	<b>7474.535</b>
E-2000, SC, LC single or duplex	20	1	1 pc(s).	<b>7178.535</b>
	24	2	1 pc(s).	<b>7478.535</b>
SC duplex, LC quad	12	1	1 pc(s).	<b>7169.535</b>
	24	2	1 pc(s).	<b>7469.535</b>

### Patch panels

#### for small fibre-optic distributors

Various patch panels with different connector types are available for individual configuration of small fibre-optic distributors.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

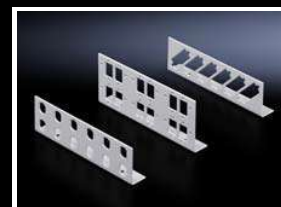
#### Supply includes:

- Patch panel without couplings
- Assembly parts

#### Note:

- For E-2000 duplex, only half of the locations are available

For coupling	Locations per patch panel	Locations per enclosure	Packs of	ModelNo.
ST	12	24	2 pc(s).	<b>7462.000</b>
SC, E-2000, E-2000 duplex	12/6	24/12	2 pc(s).	<b>7463.100</b>
SC duplex	6	12	2 pc(s).	<b>7463.200</b>



# 482.6 mm (19") installation system

## LSA technology



### Support unit, 3 U

#### for LSA-Plus strips, max. 150 paired wires

To accommodate a maximum of 15 LSA-Plus strips (each with 10 paired wires), 3 x 5 LSA-Plus connection strips 2/10, series 2, may be installed horizontally. Strip length 124 mm, height pitch pattern 22.5 mm. The support unit may be integrated into all 482.6 mm (19") mounting levels. The mounting front is recessed 75 mm behind the 482.6 mm (19") flanges. Integral shunting rings enable tidy routing and distribution of the telecommunication cables.

#### Material:

- Stainless steel

#### Supply includes:

- Support unit
- 8 shunting rings:

U	Packs of	Model No.
3	1 pc(s).	7050.100



### Fixture system, 2 U

#### For LSA mounting kit

To accommodate LSA support systems within the 482.6 mm (19") mounting level.

#### Size:

- Overall depth: 98.5 mm
- Height: 2 U

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

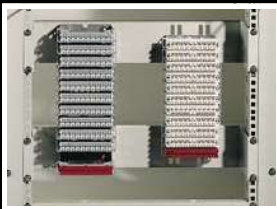
#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts

U	Packs of	Model No.
2	2 pc(s).	7050.035



## Handle set

### for Comfort Panel

For external mounting on corner pieces, also suitable for retro-fitting.

#### Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

#### Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

#### Colour:

- Handle holder: RAL 7024
- Covers: Similar to RAL 7024

#### Supply includes:

- Handle tube, Ø 20 mm
- 2 handle holders
- 2 covers
- Assembly parts

#### For horizontal mounting

With front panel width	Packs of	Model No.
482.6 mm (19")	1 pc(s).	<b>6375.010</b>

#### Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 74 mm installation depth, cannot be mounted on the same side as the support arm connection



#### Accessories:

- Clipboard, see page 824
- Display board, see page 824



## Handle set

### for Optipanel

For external mounting on corner pieces, also suitable for retro-fitting.

#### Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

#### Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

#### Colour:

- Handle holder: RAL 7035
- Covers: RAL 7024

#### Supply includes:

- Handle tube, Ø 25 mm
- 2 handle holders
- 2 covers
- Assembly parts

#### For horizontal mounting

With front panel width	Packs of	Model No.
482.6 mm (19")	1 pc(s).	<b>6385.010</b>

#### Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 100 mm installation depth, cannot be mounted on the same side as the support arm connection



#### Accessories:

- Clipboard, see page 824
- Display board, see page 824



# Handles



## Handle set

For vertical and horizontal mounting on all surfaces.

Overall length: 420 mm

### Material:

- Handle tube: Aluminium
- Tube holder: Die-cast zinc

### Surface finish:

- Handle tube: Natural anodised

### Colour:

- Tube holder: RAL 7035

### Supply includes:

- 4 tube holders
- 2 handle tubes

Packs of	Model No.
1 pc(s).	<b>2389.000</b>

### + Accessories:

- Clipboard, see page 824
- Display board, see page 824

## TP aluminium strip

For retrofitting externally on:

- TP three-part/two-part
- TP one-piece console
- May be mounted on all enclosures/covers with 20 mm fold height (max. metal thickness 2 mm)

Length: 1750 mm  
(easily cut to length for other dimensions)

Sufficient for desk sections and consoles:

- 3 x width 600 mm
- 2 x width 800 mm
- 1 x width 1000 mm + 1 x width 600 mm
- 1 x width 1200 mm
- 1 x width 1600 mm

Length mm	Model No.
1750	<b>6731.120</b>

### Material:

- Aluminium strip: Extruded aluminium section
- Cover caps: Plastic

### Surface finish:

- Aluminium strip: Natural anodised

### Colour:

- Cover caps: RAL 7035

### Supply includes:

- 1 aluminium section
- 6 plastic cover caps
- Drilling template
- Assembly parts



## Handles

For horizontal or vertical attachment to the enclosure panel of:

- Comfort Panel
- Optipanel
- Other enclosures or
- Surfaces

Mounting holes and surfaces without fins are required for assembly purposes.

For the Comfort Panel version with fins, selectable via configurators at [www.rittal.com](http://www.rittal.com), corresponding milling work may be carried out. To this end, please specify "Prepared for handle set 6107.XXX" for the command panel.

### Material:

- Handle holder: Die-cast zinc
- Cover bungs: Plastic
- Handle tube: Aluminium

### Surface finish:

- Handle tube: Powder-coated

### Colour:

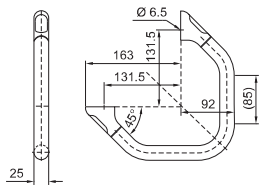
- Handle holder: RAL 7035
- Cover bungs: Similar to RAL 7035
- Handle tube: Similar to RAL 9006

## Corner handle

### Supply includes:

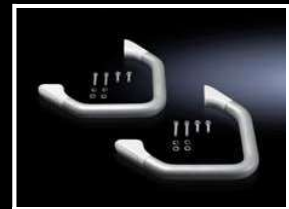
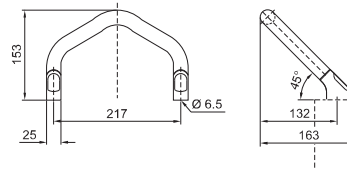
- 4 handle holders
- 2 handle tubes
- Assembly parts

Mounting on enclosure corner



Packs of	Model No.
1 pc(s).	6107.000

External mounting on straight surface (90° rotation of handle holder)



## U handle

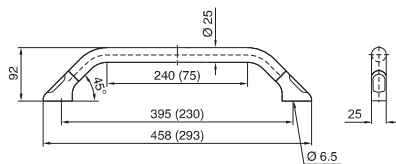
### Supply includes:

- 2 handle holders
- 1 handle tube
- Assembly parts

For front panel size	Packs of	Model No.
≥ 7 U	1 pc(s).	6107.100
482.6 mm (19")	1 pc(s).	6107.200

### + Accessories:

- For 6107.200: Clipboard, see page 824
- For 6107.200: Display board, see page 824



### Note:

- Dimensions in brackets for front size 7 U



# External mounting accessories



## Clipboard

For securing operating instructions or plans (A4 size) at eye level.

Prepared for mounting on the right-hand side; mounting on the left is also possible by unscrewing and moving the clip part.

For mounting purposes, a straight tube length of  $\geq 200$  mm,  $\varnothing 20$  mm or  $\varnothing 25$  mm is required.

### Material:

- Clipboard: Sheet steel
- Clip part: Aluminium

### Surface finish:

- Clip part: Natural anodised

### Colour:

- RAL 7035

Width mm	Height mm	Packs of	Model No.
225	315	1 pc(s).	<b>6013.000</b>



### Also required:

- Handle set 2389.000, see page 822 or
- Handle set for Comfort Panel, see page 821 or
- Handle set for Optipanel, see page 821 or
- U handle 6107.200, see page 823



## Display board

### with wall bracket

To accommodate test plans, documents etc. in A4 format.

### Mounting

- On surfaces
- On a 25 mm pitch pattern of the TS frame or rail system
- On handle set  $\varnothing 20$  mm or  $\varnothing 25$  mm

### Supply includes:

- Display board
- Wall bracket
- Assembly parts

Packs of	Model No.
1 pc(s).	<b>6013.100</b>



### Accessories:

- Handle set 2389.000, see page 822 or
- Handle set for Comfort Panel, see page 821 or
- Handle set for Optipanel, see page 821 or
- U handle 6107.200, see page 823



## Enclosure surface connector

To accommodate keyboard support (2383.000, see page 833).

### Material:

- Surface connector: Extruded aluminium section
- Side cover: Sheet steel

### Surface finish:

- Surface connector: Natural anodised

### Colour:

- RAL 7024

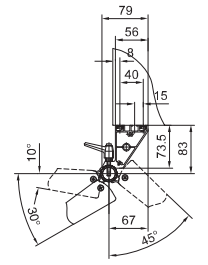
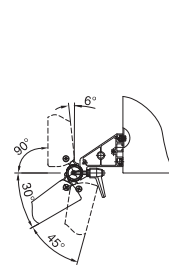
### Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	<b>2383.010</b>

External mounting on surfaces

Mounting underneath surfaces



# Front assembly

## Front panels

for Comfort Panel and Optipanel

**Material:**

- Aluminium, 3 mm

**Surface finish:**

- Natural anodised

**Note:**

- Mounting kits included with the supply of 520 mm wide standard enclosures.

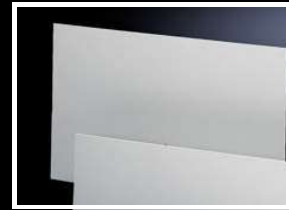
**With threaded bolts M5**

Width mm	Height mm	Model No.
482.6 (19")	155.0 (3.5 U)	<b>6027.010</b>
482.6 (19")	310.3 (7 U)	<b>6028.010</b>
520	400	<b>6028.014</b>
520	500	<b>6028.015</b>
520	600	<b>6028.016</b>



**Also required:**

- Mounting kit for Comfort Panel 6053.800, see page 826
- Mounting kit for Optipanel 6053.000/.500, see page 826



## Front panels

for Compact Panel

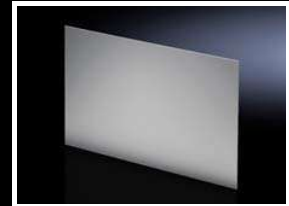
**Material:**

- Aluminium, 3 mm

**Surface finish:**

- Natural anodised

Size W x H mm	To fit Compact Panel	Model No.
178 x 200	6340.000	<b>6028.500</b>
178 x 350	6340.100	<b>6028.510</b>
252 x 200	6340.300	<b>6028.530</b>
252 x 350	6340.400	<b>6028.540</b>



## Cover plate

for support arm connection

For secure sealing of an unrequired support arm connection in the enclosure.

**Material:**

- Sheet steel

**Supply includes:**

- Seal and assembly parts

**Note:**

If with

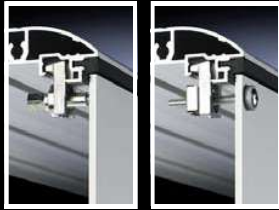
- Comfort Panel
- Optipanel
- Compact Panel

If there are already 2 support arm cut-outs provided, a cover plate is included with the supply of the enclosure

Support arm connection	Surface finish	Model No.
□ 90 x 71 mm	Spray finished in RAL 7024	<b>6505.200</b>
∅ 130 mm	Zinc-plated, passivated	<b>6505.500</b>
□ 120 x 65 mm	Zinc-plated, passivated	<b>6505.100</b>



# Front assembly



## Mounting kit

### for Optipanel

For installation of

- Aluminium front panels
- Command panels
- Keyboards

### for drilled holes

#### Supply includes:

- Packs of 30 retaining claws, cage nuts, screws and sealing washers

### for threaded bolts

#### Supply includes:

- Packs of 10 retaining claws and cap screws

### for screw clamp

#### Supply includes:

- Packs of 4 pressure plates, 4 attachment strips

#### Note:

- The command panels MP 377 12" Touch, MP 377 15" Touch are installed using an adaptor plate

For front panels	Thread	Model No.
Others	M4	<b>6058.000</b>
Rittal and others	M5	<b>6053.000</b>

For front panels	Thread	Model No.
Others	M4	<b>6058.500</b>
Rittal and others	M5	<b>6053.500<sup>1)</sup></b>

<sup>1)</sup> For the installation of TFT monitors 15", 17" and 19"

For direct installation of	Model No.
Siemens Sinumerik: OP 010, OP 010C, OP 012, OP 015, OP 019, MCP 483, PP 012, Qwerty 19", KB 483C, TP 015A	<b>6053.210</b>
Siemens Simatic: Panel PC 477C, 577C, 677C: 12.1" Touch, 15.1" Touch, 12.1" Key, 15.1" Key, 19" Touch <sup>1)</sup> , 22" Touch <sup>1)</sup> , Flat Panel <sup>1)</sup> 12", 15", 19"	
Industrial Flat Panel: IFP 1200 Touch, IFP 1500 Touch, IFP 1200 Key, IFP 1500 Key, IFP 1900 Touch, IFP 2200 Touch	
Industrial Thin Client: ITC 1200, ITC 1500, ITC 1900, ITC 2200	

The mounting set can only be installed vertically

<sup>1)</sup> 2 packs are required



## Mounting kit

### for Comfort Panel

For the installation of aluminium front panels, command panels and keyboards.

#### Supply includes:

- 6053.800:  
20 each of retaining claws, cage nuts, screws, nuts and sealing washers
- 6053.300:  
8 medium retaining claws, 8 short retaining claws, 4 long retaining claws

**1** 6053.800

**2** 6053.300

### For drilled holes/bolts/front panel mounting from behind

Thread	Model No.
M5	<b>6053.800</b>

### For screw clamp

For installation of	Model No.
Siemens Sinumerik: OP 010, OP 010 C, OP 012, OP 015, OP 015 A, OP 019, MCP 483 C, MCP 483, PP 012, PP 012 extension, MCP, KB 483 C, Qwerty 19"	<b>6053.300</b>
Siemens Simatic: TP 900 Comfort, KP 900 Comfort, TP 1200 Comfort, KP 1200 Comfort, KTP 1000 Basic, KTP 1500 Basic	
Panel PC 477C, 577C, 677C: 12.1" Key, 12.1" Touch, 15.1" Key, 15.1" Touch, 19" Touch, 22" Touch <sup>1)</sup>	
MP 377 12" Touch, MP 377 15" Touch, MP 377 19" Touch	
Industrial Flat Panel: IFP 1200 Touch, IFP 1500 Touch, IFP 1200 Key, IFP 1500 Key, IFP 1900 Touch, IFP 2200 Touch	
Industrial Thin Client: ITC 1200, ITC 1500, ITC 1900, ITC 2200	
B & R: Automation Panel, Panel PC	

<sup>1)</sup> 2 packs are required

## TFT monitor

Installation variant for surfaces and command panels.

### Benefits:

- High-quality industrial design
- Reduced installation work thanks to integral front frame
- No additional ventilation required
- Very small installation depth (45 mm)
- Resistive touchscreen for operation with a pen, finger or glove

### Material:

- Front frame: Aluminium

### Surface finish:

- Powder-coated

### Colour:

- RAL 7035

### Protection category IP to IEC 60 529:

- IP 65 (at the front)

### Supply includes:

- Seal, hex nuts (for installation in surfaces), VGA cables, rear threaded bolts M5 (14). Touch variants additionally with integral connection cable and CD-ROM driver

Size	Width mm	Height mm	Model No.	
			Touch	
			Without <sup>1)</sup>	Resistive, USB
15"	430	343	<b>6450.010</b>	<b>6450.070</b>
17"	482.6	354.8	<b>6450.020</b>	-
19"	482.6	399.3	<b>6450.170</b>	-

<sup>1)</sup> With anti-reflection coated safety glass screen

### Note:

- Other variants as resistive touchscreen with serial or USB interface are also possible



### Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 826
- Mounting kit 6053.500 (when installing in Optipanel), see page 826
- Power pack 6450.050, see page 827 and
- Connection cable 6450.060, see page 827, if an operating voltage of only 100 – 240 V is available instead of 12 V (DC)

Technical specifications	15"	17"	19"
Resolution of display (max. pixels)	1024 x 768	1280 x 1024	1280 x 1024
Resolution of controller/million colours	VGA-XGA/16.2	VGA-SXGA/16.7	VGA-SXGA/16.2
Brightness cd/m <sup>2</sup>	400	350	250
Contrast ratio	700:1	1000:1	500:1
H-Sync. kHz/V-Sync. Hz	31.4 – 80/60 – 75	31.4 – 80/60 – 75	31.5 – 80/60 – 75
Reading angle horizontal (right/left)	80°/80°	85°/85°	88°/88°
Reading angle vertical (top/bottom)	70°/70°	80°/80°	88°/88°
Backlight/operating time h	LED/min. 50,000	LED/min. 50,000	Tubes/min. 40,000
On-screen display (OSD)	Operating buttons on the rear		
VGA input/DVI-D	D-SUB HD 15-pole/DVI-D jack		
Rated voltage V (DC)	12		
Power consumption (W)	15	20	40
Operating temperature/storage temperature	0°C...+50°C/ -40°C...+85°C	0°C...+50°C/ -30°C...+85°C	0°C...+50°C/ -20°C...+60°C
Max. humidity during operation and storage, non-condensing	90% relative humidity for 240 h	80% rel. humidity for 300 h at 50°C	80% relative humidity

## Power pack

### for TFT monitor

- With IEC 60 320 connector C14 for C13 connection
- With cable (1,5 m) for connecting to the TFT monitor

Dimensions, W x H x D: 112 x 31 x 47 mm

### Technical specifications:

- Input voltage: 100 – 240 V
- Output voltage: 12 V (DC)
- Operating temperature: 10°C...40°C
- Storage temperature: 10°C...40°C

Packs of	Model No.
1 pc(s).	<b>6450.050</b>

### Material:

- Housing: Plastic

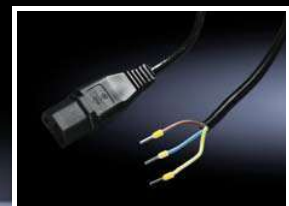
## Connection cable

### for power pack

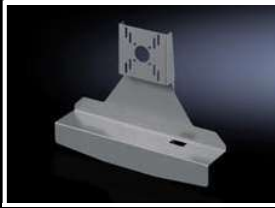
With IEC 320 socket C13 at one end for C14 connectors.

Length: 1.5 m

Packs of	Model No.
1 pc(s).	<b>6450.060</b>



# Keyboards, supports and drawers



## TFT holder

Suitable for mounting TFTs with VESA 75/100 adaptation up to 21" on

- Attachment CP 40, 6501.070, see page 179
- Attachment CP 60 for support arm connection  
□ 120 x 65 mm, 6206.360, see page 187
- Vertical support arm via tilting adaptor  
+100°/-60°, 6206.460, see page 187

### Material:

- Sheet steel

### Surface finish:

- Spray-finished

### Colour:

- RAL 7024

Dimensions mm	Packs of	Model No.
477 x 372 x 110.5	1 pc(s).	<b>2383.030</b>

## Keyboard, pull-out

### with integral trackball

Super-slimline keyboard with cursor keys and trackball. The handle also serves as a hand rest. The 10° angled pullout ensures ergonomic working.

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- Front panels
- Directly in a suitably sized Comfort Panel and Optipanel, selectable via configurators at [www.rittal.com](http://www.rittal.com)

### Technical specifications:

Keyboard:

- 84 short-stroke keys, IBM-AT compatible (MF2), incl. cursor keys
- With integral 16 mm trackball
- Interface: 2 x USB
- Operating temperature: +5°C...+50°C
- Storage temperature: -10°C...+60°C
- Humidity: max. 95% (non-condensing)

Keyboard layout	Packs of	Model No.
German	1 pc(s).	<b>6002.130</b>

### Material:

- Sheet steel

### Surface finish:

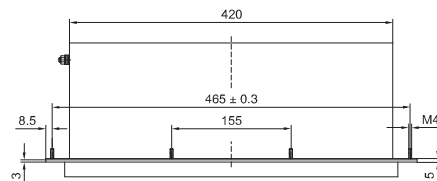
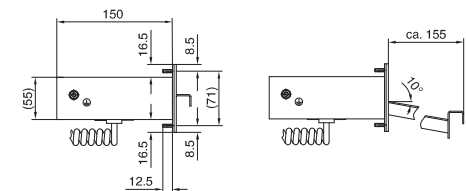
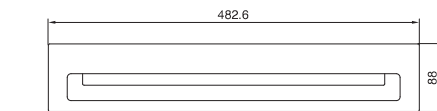
- Front panel: Powder-coated

### Colour:

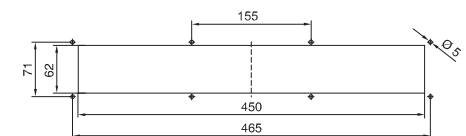
- RAL 7035

### Protection category IP to IEC 60 529:

- IP 65 (at the front, sealed)



Mounting cut-out



# Keyboards, supports and drawers

## Built-in keyboard 482.6 mm (19")/4 U

### with integral touchpad

The integral touchpad eliminates the need to install an additional, correct protection category mouse, which in turn reduces cabling. The short stroke keys are easily identified by edge embossing, less force is required to operate them, and they have a good tactile action.

#### Benefits:

- The separate number pad enables the parameters to be entered quickly
- Sealed, wipeable surface finish
- High level of mechanical and chemical resistance as per DIN 42 115

#### Technical specifications:

- Number of keys: 105
- Front panel dimensions: 482.6 x 177.0 mm (19" x 4 U)
- Keyboard depth: 30 mm
- Installation depth: 27 mm
- 12 M5 x 20 threaded bolts at the rear
- Actuation travel/force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Operating temperature: -40°C...+90°C
- Touchpad resolution, capacitive: 40 pixels/mm
- Interfaces: USB

#### Material:

- Front panel: Aluminium

#### Protection category IP to IEC 60 529:

- IP 65 (at the front)

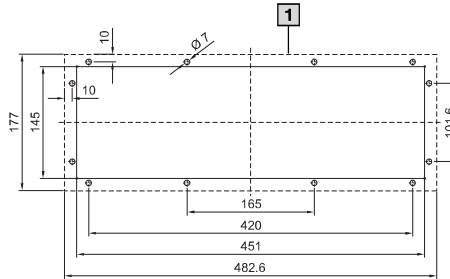
#### Supply includes:

- USB connection cable, length 1.8 m
- Seal
- Drilling template
- Assembly parts for surfaces

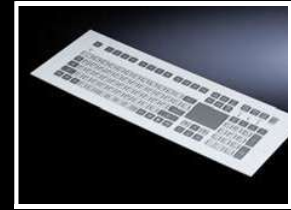
Keyboard layout	Packs of	Model No.
German	1 pc(s).	6446.030

#### ! Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 826
- Mounting kit 6053.500 (when installing in Optipanel), see page 826



1 Support surface



## Fold-out tray

### for keyboard and mouse

For installation in

- 600 and 800 mm wide doors
- 482.6 mm (19") swing frames and enclosures

Standard double-bit lock insert may be exchanged for lock inserts 27 mm, version A, see page 680 and for lock cylinder 2571.000, see page 681

#### Material:

- Flap: Sheet steel
- Side parts: Cast aluminium
- Tray: Extruded aluminium section

#### Surface finish:

- Flap, side parts: Textured paint
- Tray: Natural anodised

#### Colour:

- Cover, side parts: RAL 7035

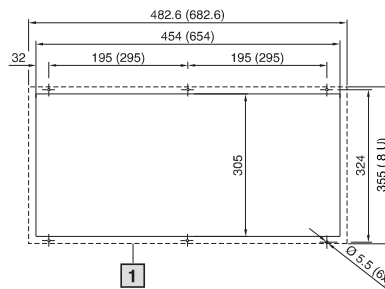
#### Protection category IP to IEC 60 529:

- IP 55 to IEC 60 529

#### + Accessories:

- Mousepad support, pull-out, see page 830

#### Mounting cut-out



1 Support surface



For door width mm	External dimensions W x H x D mm	Installation depth mm	Max. keyboard dimensions W x H x D mm	Model No.
600	482.6 (19") x 355 (8 U) x 126	93	405 x 50 x 250 405 x 50 x 195 <sup>1)</sup>	2379.600
800	682.6 x 355 (8 U) x 126	93	605 x 50 x 250 605 x 50 x 195 <sup>1)</sup> 475 <sup>1)</sup> x 50 x 250	2379.800

<sup>1)</sup> Maximum keyboard size with holder for mouse

# Keyboards, supports and drawers



## Support for mousepad, pull-out with mouse holder

For screw-fastening into the fold-out tray 2379.600/2379.800, see page 829.  
To fit all standard mousepads up to 250 x 205 mm.

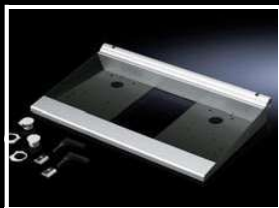
### Colour:

- RAL 7035

### Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	2379.900



## Support

### For keyboards

Up to a max. of 473 x 210 mm.

Prepared for

- Cable gland
- Mousepad support, vertically hinged 2383.020

### Material:

- Side parts: Sheet steel
- Front and rear: Extruded aluminium section

### Surface finish:

- Side parts: Textured paint
- Front and rear: Natural anodised

### Colour:

- Side parts: RAL 7024

### Supply includes:

- 2 clamping screws, end stoppers, cover plate, cable entry grommet and nylon tape

Packs of	Model No.
1 pc(s).	2383.000



### Also required:

- For external mounting on surfaces using enclosure surface connectors, see page 824



### Accessories:

- Mousepad support, vertically hinged, see page 834



## Utility bars, vertically hinged

To support standard keyboards during programming and servicing work.

Mounting distance of utility bars for problem-free insertion: at least 300 mm.

Depth adequate for keyboards up to max. 210 mm.

For mounting beneath

- Comfort Panel<sup>1)</sup>
- Optipanel<sup>2)</sup>
- Any sufficiently large surface, such as:
  - Worktops IVV
  - Command panels with handle strips

on

- Vertical surfaces (doors/side panels)

Min. front panel width

<sup>1)</sup> 385 mm

<sup>2)</sup> 405 mm

After use, the utility bars fit securely and neatly under the mounting surface, thus giving the operator more space to move around.

Packs of	Model No.
2 pc(s).	6514.200

### Material:

- Sheet steel

### Surface finish:

- Zinc-plated

### Supply includes:

- Assembly parts





# Keyboards, supports and drawers

## Drawer 482.6 mm (19")/2 U for keyboard and mouse

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- 482.6 mm (19") system punchings
- Front panels
- Directly in a suitably sized Comfort-Panel or Optipanel, selectable via configurators at [www.rittal.com](http://www.rittal.com)

Suitable for

- Accommodation of keyboards up to max. 390 x 32 x 139 mm
- Support of standard commercially-available mouse or trackball

### Design:

- Drawer: With stay
- Front panel: With security lock (lock no. 12321) and handle strip

Width mm	U	Depth mm	Model No.
482.6 (19")	2	150	6002.000

### Material:

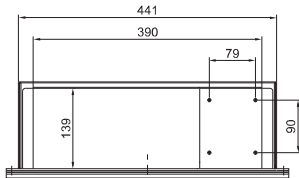
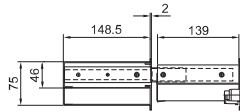
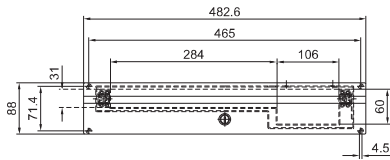
- Drawer housing: Sheet steel
- Drawer and front panel: Aluminium

### Surface finish:

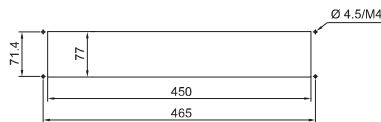
- Drawer housing: Zinc-plated
- Drawer and front panel: Natural anodised

### Supply includes:

- Assembly parts for installation in Comfort Panel/Optipanel command panels



Mounting cut-out  
(for installation in surfaces)



# Keyboards, supports and drawers



## Drawer for keyboard and mouse

### with mousepad support

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- Front panels

Suitable for accommodating

- Keyboards up to a maximum of 460 x 42 x 170 mm
- Standard mouse and mousepad

### Design:

- Drawer and housing: With side pull-out mousepad support and tray
- Front panel: With 3 mm double-bit lock insert, folds out as handrest

Width mm	U	Depth mm	Model No.
482.6 (19")	3.5	261	6003.000

### Material:

- Drawer and enclosure: Sheet steel
- Front panel: Aluminium

### Surface finish:

- Drawer and housing: Textured paint
- Front panel: Natural anodised.

### Protection category IP to IEC 60 529:

- IP 54

### Supply includes:

- Assembly parts

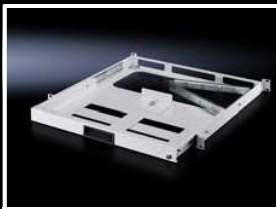
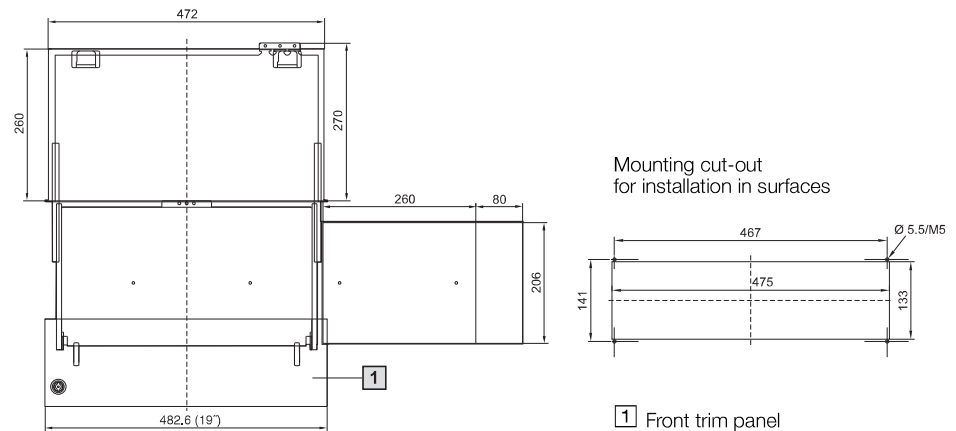
### Note:

- Not suitable for installation in a 482.6 mm (19") frame



### Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 680



## Keyboard drawer 1 U

### for two 482.6 mm (19") mounting levels

This space-saving keyboard drawer is screw-fastened to the front and rear 482.6 mm (19") mounting levels. The installation spacing is infinitely adjustable from 460 – 800 mm. It is fully extendible, lockable, with strain relief and hinged cable support. The drawer is suitable for accommodating 482.6 mm (19") keyboards.

### Interior dimensions:

- W x H x D approx. 420 x 40 x 220 mm

### Material:

- Sheet steel

### Colour:

- RAL 7035

### Supply includes:

- Assembly parts, excluding keyboard

### Note:

- Monitor/keyboard unit, 1 U, see page 563

Distance between levels mm	Model No.
460 – 800	7281.200

# Keyboards, supports and drawers

## Keyboard drawer 2 U

### for one 482.6 mm (19") mounting level

For keyboards up to 430 mm wide and 250 mm deep with the front panel folded over.

#### Material:

- Sheet steel with aluminium front

#### Surface finish:

- Spray-finished

#### Colour:

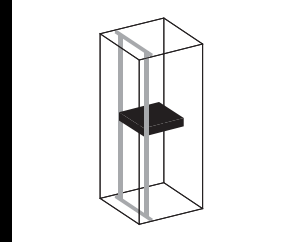
- RAL 7035

#### Supply includes:

- Lockable drawer with handles
- Folding front
- Pull-out mousepad
- Mouse support
- Practical cable entry and strain relief

Height	Packs of	Model No.
2 U	1 pc(s).	7281.035

Installation depth: 390 mm



## Support for mousepad

### for command panels and surfaces

The angle of the mousepad support is individually adjustable. Two holes are needed on the enclosure for attachment purposes.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

Weight kg	Packs of	Model No.
1.0	1 pc(s).	2381.000



#### Accessories:

- Holder for mouse, see page 834



## Keyboard support

### for command panels or surfaces

#### Benefits:

- Adjustable to different keyboard depths via a simple slide function
- Connection to command panels with support arm connection at the top or bottom
- Easily adjustable tilt angle
- Open support at the side prevents dirt from being deposited

#### Installation options:

- Command panels with handle strips
- Command panel for desktop TFT up to 24"
- External mounting on vertical surfaces and beneath horizontal surfaces

#### Technical specifications:

- Support surface fully depth adjustable from 128 - 228 mm

#### Material:

- Sheet steel
- Handrest: Extruded aluminium section

#### Surface finish:

- Textured paint
- Handrest: Natural anodised

#### Colour:

- RAL 7035

Width mm	Weight kg	Packs of	Model No.
430	3.0	1 pc(s).	6321.010

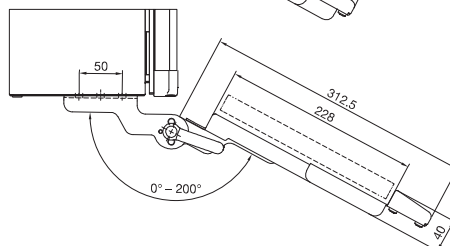
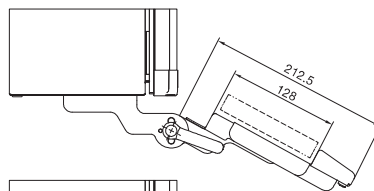
#### Supply includes:

- Support fully preassembled
- Nylon tape for attaching the keyboard
- Assembly parts



#### Accessories:

- Mousepad support, vertically hinged, see page 834



# Keyboards, supports and drawers



## Mousepad support, vertically hinged

For mounting on the left/right, beneath the keyboard support. Latches home automatically, both when retracted and extended. With mounting holes for holder for mouse 2382.000.

### Material:

- Sheet steel

### Surface finish:

- Zinc-plated

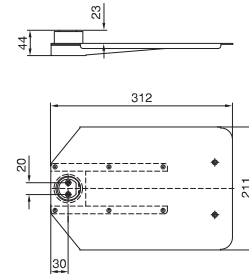
### Supply includes:

- Assembly parts and mousepad, stuck on with adhesive

Packs of	Model No.
1 pc(s).	2383.020

### ⊕ Accessories:

- Holder for mouse, see page 834



## Holder for mouse

To fit mousepad support and for secure accommodation of a standard mouse.

### Material:

- Sheet steel

### Surface finish:

- Zinc-plated

### Supply includes:

- Assembly parts

Weight kg	Packs of	Model No.
0.3	1 pc(s).	2382.000

### ! Also required:

- Mousepad support, see page 833 or
- Mousepad support, vertically hinged, see page 834

## Paper removal flap

### For installation in surfaces

Facilitates easy removal of pages from the printer without opening the enclosure door. Acrylic glazed flap with magnetic lock.

Paper removal flap	Colour RAL	Packs of	Model No.
A4	7015	1 pc(s).	6903.200

## Base

### for tubular door frame

The space-saving alternative instead of component shelves to accommodate tower PCs (maximum 20 kg). For screw-fastening to the tubular door frame of 600 mm wide enclosures based on TS.

### Load capacity:

- 20 kg

### Material:

- Sheet steel

### Surface finish:

- Spray-finished

### Colour:

- RAL 7015

### Supply includes:

- Retaining strap and assembly parts

Width x height x depth mm	Packs of	Model No.
445 x 159 x 230	1 pc(s).	6902.950

### ! Also required:

- TS support strips for direct screw-fastening to the tubular door frame, see page 685

## Interface extension with wall connection and built-in RJ 45 module

For extending the internal enclosure interfaces – e.g. of industrial PCs and switches – up to the outside of the enclosure. The wall connection only needs the same space as a switch.

### Benefits:

- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or eloxal layer, thereby creating a conductive connection
- Captive protective cap

### Material:

- Housing: Brass
- Cover: Aluminium
- Seal: Polyamide

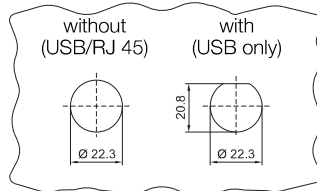
### Surface finish:

- Enclosure: Nickel-plated
- Cover: Natural anodised

### Protection category IP to IEC 60 529:

- IP 66/67 (with protective cap closed)

Anti-twist guard



Material thickness: 1 – 6 mm

Version	Wall connection	Inside	Length m	Packs of	Model No.
USB	Type A jack	Type A connector	0.5	1 pc(s).	<b>2482.210</b>
			1.0	1 pc(s).	<b>2482.220</b>
			2.0	1 pc(s).	<b>2482.230</b>
RJ 45	Jack	Connector	0.5	1 pc(s).	<b>2482.700</b>
			1.0	1 pc(s).	<b>2482.710</b>
			2.0	1 pc(s).	<b>2482.720</b>
RJ 45	Jack	Jack	–	1 pc(s).	<b>2482.730</b>



## Interface flap

### For RC circuit-breakers

According to standard EN 60 204-1, all circuits with a rated current of  $\leq 20$  A that supply sockets in or on machine enclosures must be fused with a residual-current circuit-breaker with a rated differential current of  $\leq 30$  mA. Prepared for the installation of standard, 2-pole RCBO circuit-breakers.

### Applications:

- As programming interface for controllers
- As maintenance access for networks
- For temporary connection of additional equipment
- For quick connection to existing network structures
- For programming and maintenance of integral components

### Design:

- Spring-action terminals max. 2 x 2.5 mm, connection at rear

### Benefits:

- Protection against fault currents and overload
- Standard-compliant fuse to EN 60 204
- The RC switch may be reset without opening the enclosure
- Spring mechanism raises the unlocked cover by 30°, ensuring that you do not forget to close the cover

### Functions:

- A snap fastener ensures reliable sealing. This may be locked if required.

### Material:

- Mounting frame: Plastic PBT (black)
- Plastic flap: Polycarbonate (semi-transparent)

### Protection category IP to IEC 60 529:

- IP 65

### Supply includes:

- Interface flap, complete, consisting of plastic frame, socket (VDE), RJ 45 (jack/jack, Cat 5e) and cut-out for RC circuit-breaker
- Knockout provided for USB A (jack/jack)
- 3 mm double-bit with slot-in rotary knob

### Note:

- Interface flap may only be used with fitted RC circuit-breaker



Width mm	Height mm	Required mounting cut-out mm	Installation depth mm	Rated operating voltage V, ~, Hz	Rated current A	Packs of	Model No.
131	127	117 x 91	70	250, 1~, 50/60	10 – 16	1 pc(s).	<b>2482.600</b>

# Interfaces



## Interface flaps, modular

For universal use in all situations where rapid access to interfaces and sockets is needed. The affected enclosure remains closed and is therefore protected from ambient influences and unauthorised access.

Space-saving installation e.g.

- in **small enclosures and compact enclosures** as a programming interface for controllers
- in **IT and industrial distributors** as maintenance access for networks
- in **PC enclosures and console systems** for the temporary connection of additional equipment
- in mobile **industrial workstations** for rapid connection to existing network structures
- in **command panel systems** for programming and maintenance of integral components

The mounting frame has a flap which snaps into position at various opening angles from 90 to 180°. A snap fastener ensures reliable sealing. This may be locked if required.

### Material:

- Mounting frame and metal flap: Die-cast zinc
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

### Surface finish:

- Mounting frame and metal flap: Matt nickel-plated

### Colour:

- Lock: RAL 7024

### Protection category IP to IEC 60 529:

- IP 65 (with sealed flap and proper assembly)

Description	cUR	UR	Packs of	Model No.
<b>Mounting frame<sup>1)</sup></b>				
[1] Single, with plastic flap (semi-transparent)			1 pc(s).	<b>2482.300</b>
Double, with plastic flap (semi-transparent)			1 pc(s).	<b>2482.310</b>
[2] Single, with metal flap	■	■	1 pc(s).	<b>2482.320</b>
[3] Double, with metal flap	■	■	1 pc(s).	<b>2482.330</b>
<b>Socket modules</b>				
[4] Germany (VDE), spring-action terminals max. 2 x 2.5 mm <sup>2</sup> , connection at rear			1 pc(s).	<b>2482.400<sup>3)</sup></b>
[5] Germany (VDE), screw terminals max. 6 mm <sup>2</sup> , connection at rear, colour: yellow (RAL 1016), for installation in front of master switch			1 pc(s).	<b>2482.410<sup>3)</sup></b>
<b>Interface inserts</b>				
[6] 2 x SUB-D9 (jack/pin)	■	■	1 pc(s).	<b>2482.500</b>
[7] SUB-D9 (jack/jack)	■	■	1 pc(s).	<b>2482.510</b>
[8] 2 x USB A (jack/jack)	■	■	1 pc(s).	<b>2482.540<sup>2)</sup></b>
[9] RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)	■	■	1 pc(s).	<b>2482.550</b>
[10] 2 x RJ45 (jack/jack, Cat. 5e)	■	■	1 pc(s).	<b>2482.560<sup>2)</sup></b>
[11] USB A (jack/jack), RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/pin)	■	■	1 pc(s).	<b>2482.570<sup>2)</sup></b>
[12] Blanking plate (slimline), for individual population, usable area: 45 x 75 mm	■	■	1 pc(s).	<b>2482.590</b>

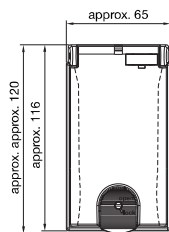
<sup>1)</sup> Electrically conductive

<sup>2)</sup> Conductively linked to mounting frame

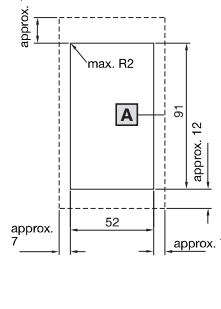
<sup>3)</sup> Rated voltage: 250 V, rated current: 10 – 16 A

All SUB-D interfaces may be rotated while in use

Interface flap, single



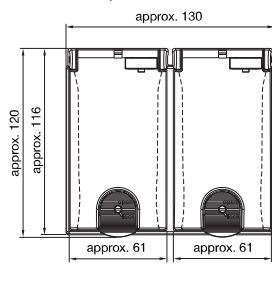
Mounting cut-out



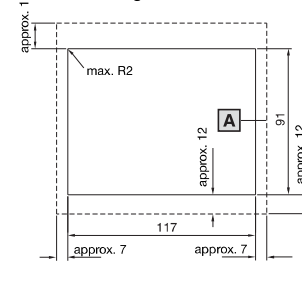
Permissible material thickness: 1 – 5 mm

**A** Contact surface

Interface flap, double



Mounting cut-out



# Signal pillars

## Signal pillars, LED compact

### Benefits:

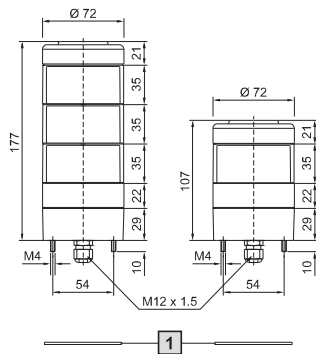
- Complete, ready-to-connect solution
- Minimal build height
- Extremely long service life of the LEDs (at least 70,000 h), therefore maintenance-free
- Minimal assembly work and warehousing costs

### Technical specifications:

- Operating voltage: 24 V AC/DC
- Electrical connection: Screw clamps
- Light: LED
- Transmission angle:  $3 \times 120^\circ$
- Operating temperature:  $-20 \dots +70^\circ\text{C}$
- Flashing function: Controllable via PLC
- Cable entry: Metric screwed cable gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

### Protection category IP to IEC 60 529:

- IP 65



1 Seal

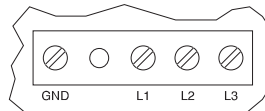
Version	Packs of	H mm	Model No.
3-stage, red, yellow, green	1 pc(s).	177	<b>2372.100</b>
1-stage, red	1 pc(s).	107	<b>2372.130</b>



### Also required:

- For wall mounting: Bracket for wall mounting, see page 841
- For conduit mounting/support arm systems: Busbar connection adaptor, see page 837
- Other mounting components, see page 841/842

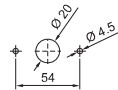
### Connection plan 2372.100/.130



GND - 0 V (Ground)

L1 - L3 - +24 V (DC) (LED light stages, from bottom to top, unneeded contacts are left free)

### Mounting cut-out



## Connection adaptor

### for signal pillar, LED compact

For conduit mounting and mounting on support arm systems.

### Material:

- Plastic

### Colour:

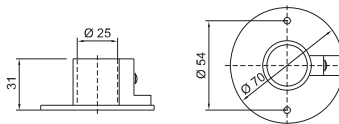
- Black

Packs of	Model No.
1 pc(s).	<b>2372.120</b>



### Accessories:

- Mounting components for conduit mounting, see page 842
- Mounting components for support arm system, see page 841



# Signal pillars



## Signal pillars, modular

### Benefits:

- Simple assembly and contact via bayonet fastener
- Configuration of up to five components with the same voltage
- Flashing and stroboscopic light element incl. lamp, suitable for direct use
- Components are available in a range of colours and voltages

For modular configuration of

- Connection components
- Optical components
- Incandescent lamps
- Acoustic components
- Label panel



## Connection component

### for signal pillars, modular

- Optionally for conduit or wall/base mounting
- Screw terminals in the connection component
- With cover for optical components
- Contact hazard protection to VDE

### Material:

- Enclosure of polyamide

### Colour:

- Black

### Protection category IP to IEC 60 529:

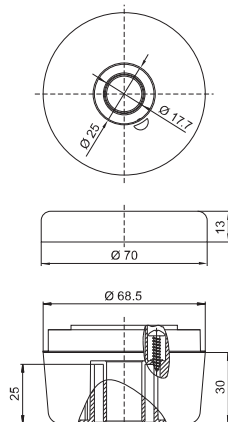
- IP 54

Connection component	Model No.
for conduit mounting	<b>2368.000</b>
for wall/base mounting	<b>2368.010</b>

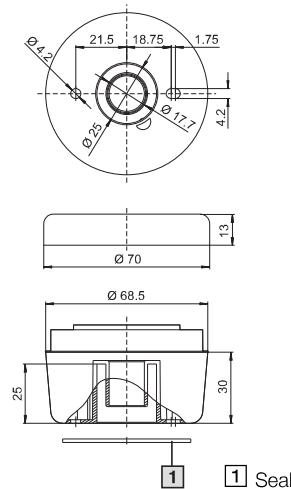
### ⊕ Accessories:

- Mounting components for wall/base mounting, see page 841
- Mounting components for conduit mounting, see page 842
- Mounting components for support arm system, see page 841

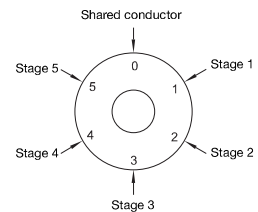
Connection component for conduit mounting  
2368.000



Connection component for wall/base mounting  
2368.010



Connection diagram





# Signal pillars

## Optical components

### for signal pillars, modular

- With 360° signal transmission thanks to optimised prism system
- No. of potential stages = 5 components, with identical voltage

#### Material:

- Housing: Polyamide
- Cap: Transparent polycarbonate

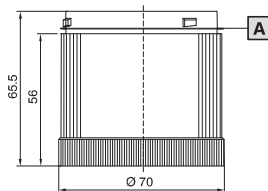
#### Protection category IP to IEC 60 529:

- IP 54 if a cover or acoustic component is fitted at the top



#### Also required:

- Incandescent lamps for steady light component, see page 839



**A** Pre-configured seal

#### 1 Steady light component 12 – 240 V AC/DC<sup>1)</sup>

Model No.				
Red	Green	Yellow	Clear	Blue
2369.000	2369.010	2369.020	2369.030	2369.040

<sup>1)</sup> Incandescent lamps not included with the supply

#### 2 LED steady light component 24 V AC/DC, 25 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2372.000	2372.010	2372.020	2372.030	2372.040

#### 3 LED steady light component 230 V

Model No.				
Red	Green	Yellow	Clear	Blue
2370.150	2370.160	2370.170	–	–

#### 4 LED stroboscopic light component 24 V AC/DC

Model No.				
Red	Green	Yellow	Clear	Blue
2370.500	2370.510	2370.520	2370.530	2370.540

#### 5 LED stroboscopic light component 230 V

Model No.				
Red	Green	Yellow	Clear	Blue
2370.550	2370.560	2370.570	–	–

#### 6 Stroboscopic light component 24 V (DC), 125 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2371.000	–	2371.020	–	–

#### 7 Stroboscopic light component 230 V DC, 15 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2371.050	–	2371.070	–	–

## Incandescent lamps

### for steady light components

With BA 15d base/plinth.

Incandescent lamp	Packs of	Model No.
24 V, 5 W	3 pc(s).	2374.060
230 V, 5 W	3 pc(s).	2374.070



# Signal pillars



## Acoustic components

### for signal pillars, modular

To indicate warnings or malfunctions.

#### Material:

- Housing: Polyamide

#### Colour:

- Black

#### Note:

- For mounting only on the upper end of the optical components or directly on the connection component

#### 24 V AC/DC

Acoustic components	Packs of	Model No.
85 dB <sup>1)</sup> max. 25 mA	1 pc(s).	<b>2376.000</b>
100 dB <sup>2)</sup> max. 25 mA	1 pc(s).	<b>2376.010</b>

<sup>1)</sup> Continuous tone or pulsating

<sup>2)</sup> Volume and 8 tones may be set

#### 230 V

Acoustic components	Packs of	Model No.
85 dB <sup>1)</sup> max. 25 mA	1 pc(s).	<b>2376.020</b>
100 dB <sup>2)</sup> max. 25 mA	1 pc(s).	<b>2376.030</b>

<sup>1)</sup> Continuous tone or pulsating

<sup>2)</sup> Volume and 8 tones may be set



## Label panel

### for signal pillars, modular

For text additions for up to 5 optical components, with break point for any fields that are not required (50 x 150 mm), including clamping section for base or conduit with a diameter of 25 mm.

#### Material:

- Acrylic, transparent

Label panel	Model No.
for 5 optical components	<b>2374.150</b>

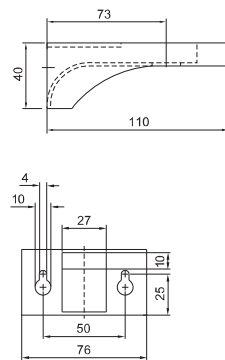
## Mounting components for wall/base mounting

Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	Modular	
1	Bracket for wall mounting, including rubber gland for concealed cable routing	black	■	–	2372.110
2	Bracket for connection component	black	–	■ <sup>1)</sup>	2374.040
3	For side cable outlet	black	–	■ <sup>1)</sup>	2374.080

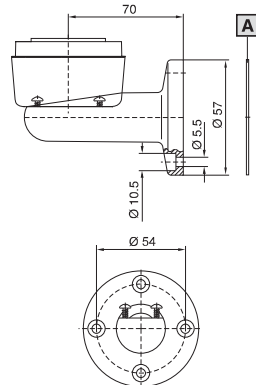
### ! Also required:

- <sup>1)</sup> Connection component 2368.010, see page 838

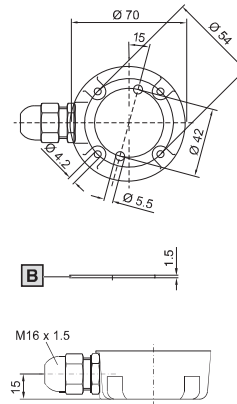
Bracket for wall mounting



Bracket for connection component



For side cable outlet



A Seal  
B Flat seal



## Mounting components for support arm systems

For external mounting of a signal pillar on the plastic cover of the support arm components.

Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	Modular	
4	For support arm system CP 40, steel – Angle piece 90° 6501.140	RAL 7024 (graphite grey)	■ <sup>1)</sup>	■ <sup>2)</sup>	2375.030
5	For support arm system CP 60 – Angle adaptor 90° for support arm combination CP 60 to CP 40 6206.640 – Angle coupling 90° 6206.380 – Angle piece 90° 6206.600 – Intermediate hinge 6206.620 – Wall mounted hinge 6206.740 – Top mounted joint 6206.700	RAL 7024 (graphite grey)	■ <sup>1)</sup>	■ <sup>2)</sup>	6206.900
6	For support arm system CP 120 – Angle coupling 90° 6212.380 – Angle piece 90° 6212.600 – Intermediate hinge 6212.620 – Wall-mounted hinge 6212.740 – Top-mounted joint 6212.700	RAL 7024 (graphite grey)	■ <sup>1)</sup>	■ <sup>2)</sup>	6212.900
	For support arm system CP 180 – Angle piece 90° 6218.700, – Top-mounted joint 6218.700	RAL 7024 (graphite grey)	■ <sup>1)</sup>	■ <sup>2)</sup>	6212.900

### ! Also required:

- <sup>1)</sup> Connection adaptor 2372.120, see page 837
- <sup>2)</sup> Connection component 2368.000, see page 838



# Signal pillars



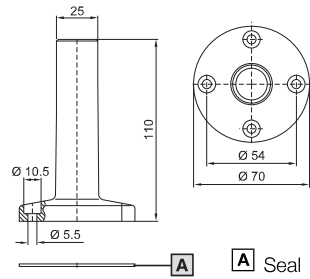
## Mounting components for conduit mounting

Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	modular	
8	Base with integral conduit, Ø 25 mm, 110 mm long	black	■ <sup>1)</sup>	■ <sup>2)</sup>	2374.000
9	Individual base	black	■	■	2374.010
10	Individual conduit, 250 mm long	Aluminium	■ <sup>1)</sup>	■ <sup>2)</sup>	2374.020
	Individual conduit, 400 mm long	Aluminium	■ <sup>1)</sup>	■ <sup>2)</sup>	2374.030
11	Angle bracket for conduit mounting	black	■	■	2374.050

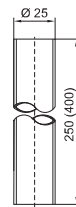
### ! Also required:

- <sup>1)</sup> Connection adaptor 2372.120, see page 837
- <sup>2)</sup> Connection component 2368.000, see page 838

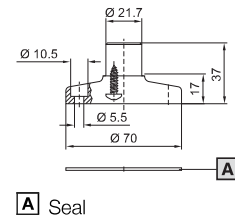
Base with integral conduit



Individual conduit



Individual base, plastic



Angle bracket for conduit mounting

