

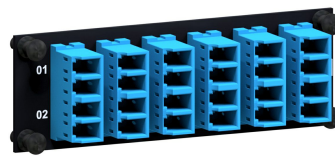
## PRODUCTPROFILE

**Catalogue number: 170A0211**

Partnumber: 20101934

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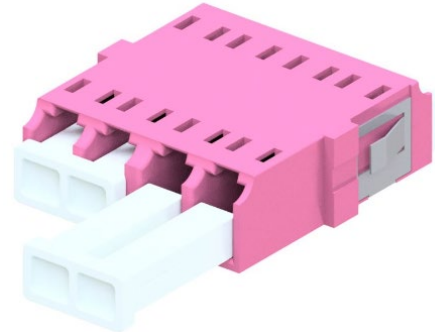
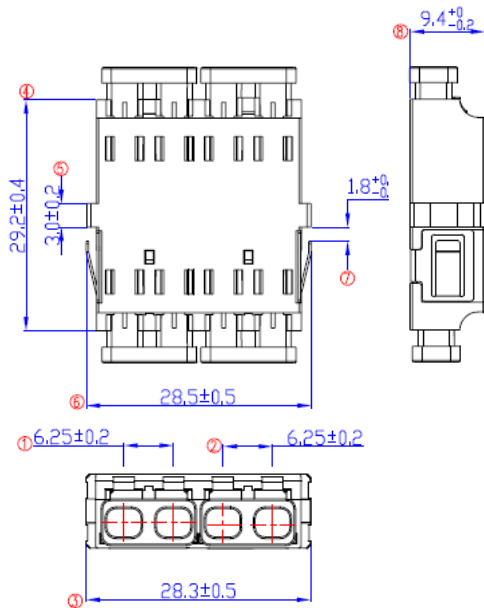
SMAP-G2 SD Part-Front-Plate 1HU-1/4  
with 12 LC-Duplex (6xLCQ) SM blue adapters  
orientation conventional  
RAL9005 black  
numbering 01-12



**Related documents:**

DS\_LC\_QUAD\_KUPPLUNG\_K04\_OE  
PRECONNECT\_SMAP-G2-SD\_OE

LC-Q Kupplung  
Produktinformation



All dimensions are in [mm]; tolerances acc. ISO 2768 m-H

Properties and applications

- LC adapter connect LC-Simplex, LC-Duplex and LC-COMPACT connectors
- senior / senior = at both sides maximum long guidance of the LC connectors within the adapter
- One-piece break-proof adapter body
- Screwless mounting by mounting clip
- Translucence duplex protection cap, permeable for the light of laser pointers (visual fault locators)

Standards

IEC/EN 61754-20, TIA/EIA 604-10, REACH and RoHS compliant

Material

- C-Sleeve: Zirconia ceramic
- Adapter body: PEI, flammability UL94 V-0
- Mounting clip: Stainless spring steel
- Duplex protection cap: PVC, flammability UL94 V-0

Optical data

Insertion loss Change over mating cycles: Max. 0.2 dB

Mechanical data

Mating cycles: Min. 500

Thermal properties

- Operation temperature range: -40°C to +85°C
- Storage temperature range: -40°C to +85°C

Colors

aqua for OM3 / violet for OM4 / lime green for OM5 / blue for SM-PC 0° / green for SM-APC 8°

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

|             |            |          |            |      |                           |      |      |
|-------------|------------|----------|------------|------|---------------------------|------|------|
| Draft       | Date       | Approved | Date       | Rev. | Engineering change number | Name | Date |
| H. Jungbäck | 2021-02-09 | R. Mees  | 2021-02-09 | 002  | ---                       | ---  | ---  |

## PreCONNECT® SMAP-G2 Smart Panel Generation 2 Standard Density (SD) 19" panel system

### PRODUCT INFORMATION



Rosenberger OSI offers with PreCONNECT® SMAP-G2 SD a highly modular and plastic-reduced 19" Smart Panel SMAP panel system for data center data cabling. SMAP-G2 SD is available as distribution panel to accommodate all kinds of factory assembled cables and as splice panel.

A service-friendly assembly of the PFPs, MTP® module cassettes, trunk and splice modules is possible without tools by quick fasteners. Also the proven PreCONNECT® square-interface enables a toolless fixing of the trunks cables.

Depending on the application and configuration of the PreCONNECT® SMAP-G2 SD panels, a multitude of easily exchangeable back planes are available for cable interception. The PreCONNECT® SMAP-G2 SD panel is depth-adjustable by 19" mounting brackets and can therefore be individually adapted to different rack conditions.

### Properties:

**MEGA HIGH DENSITY (MHD) with MDC**

- LC-Duplex and MTP®: 48 ports per HU at the 1, 2 and 3 HU panels, 57.6 per HU (total 288) at 5 HU
- **MDC: 128 ports per HU at the 1, 2 and 3 HU panels, 153.6 per HU (total 768) at 5 HU**
- Consisting of 1 HU and 2 HU empty panels with horizontal orientation of the part front plates and 3 HU and 5 HU with vertical orientation
- The empty panels are to be equipped with 1 HU 1/4 and 1/2 part front plates PFPs, MTP® module cassettes, trunk and splice modules
- The PFPs and cassettes are toolless inserted from the front side and fixed with quick fasteners
- The PFPs and cassettes can be pulled out to the front for maintenance
- Through its adjustable 19" mounting brackets the panel can be depth variable mounted
- Trunk cables can be routed into the panels through their back planes and either side
- At panels with trunk routing through their back planes, which are not fully equipped during their first installation, trunk cables can be retrofitted afterwards and removed for maintenance

### Applications:

- Panel system for data center data cabling
- For all IT applications like Ethernet and Fibre Channel
- Appropriate for Spine-Leaf architectures, by default 12, optional up to 16 trunks coming from Leaf Switches can be accommodated per HU within SMAP-G2 distribution panels next to the Spine-Switch

### Your benefits at a glance:

- High modularity to configure individual cabling structures
- Fast and easy handling during first installation, retrofit and maintenance, one-man installation possible
- Low complexity, focused on the functional needs
- Simple and low-cost migration to other applications, e.g. from duplex technology to MTP® based Parallel Optics
- Fiber and copper data cabling can be installed together within one panel
- Low fire load through minimized use of plastic

**PreCONNECT® SMAP-G2 SD 19" panel system:**

PreCONNECT® SMAP-G2 is the generation 2 of our since years proved and tested, highly-modular and plastics reduced 19" Smart Panel SMAP systems for data center data cabling. SMAP-G2 SD is available as distribution panel to accommodate all kinds of factory assembled cables and as splice panel.

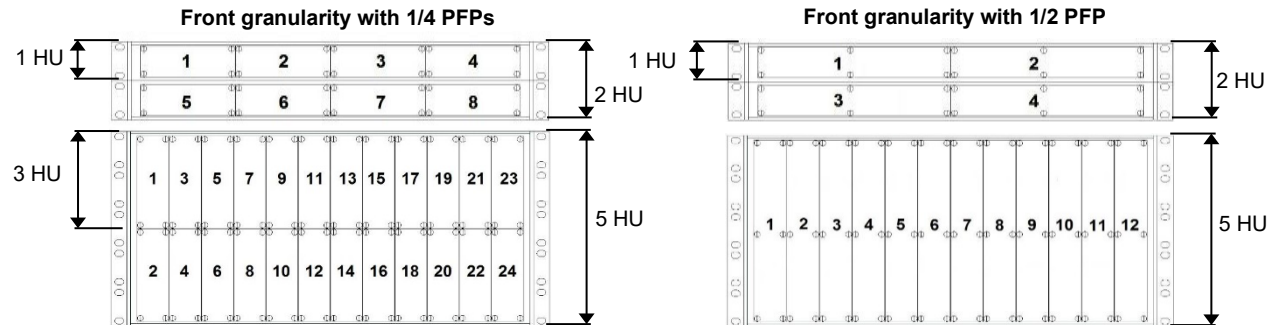
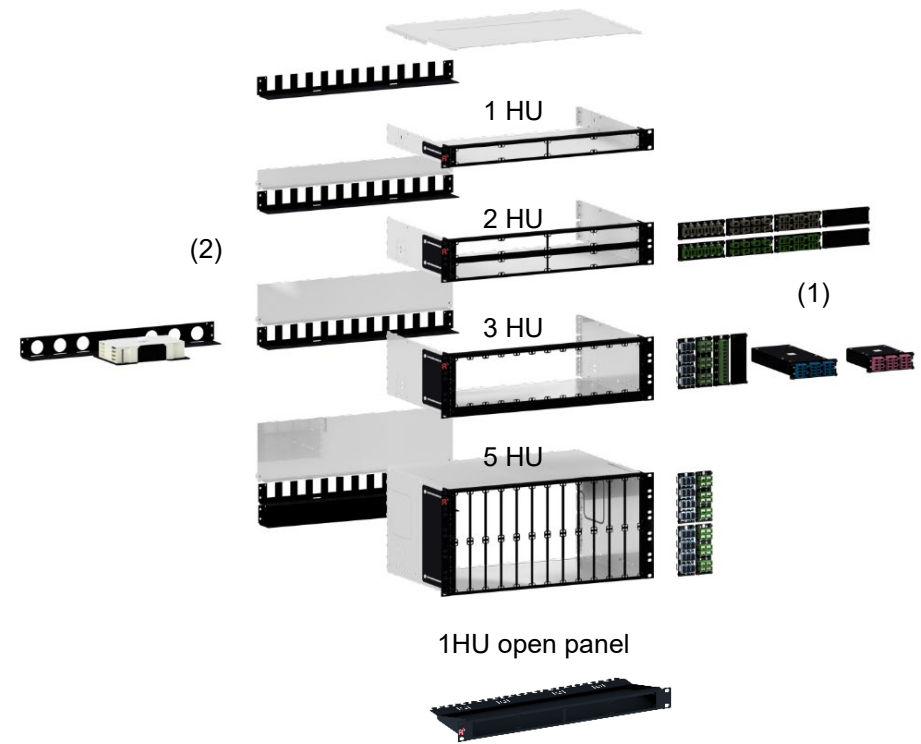
Port density: 48 LC-Duplex or MTP® ports per height unit HU at the 1, 2 and 3 HU panels and 57.6 per HU (total 288) at the 5 HU panel

PreCONNECT® SMAP-G2 SD consists of 1 HU and 2 HU empty panels with horizontal orientation of the part front plates and 3 HU and 5 HU with vertical orientation.

The empty panels are to be equipped with 1 HU 1/4 and 1/2 part front plates PFPs, MTP® module cassettes, trunk and splice modules (1). The PFPs, cassettes and modules are toolless inserted from the front side and fixed with quick fasteners. By this design they can be pulled out to the front for maintenance.

1 HU 1/4 part front plates fitting into all SMAP-G2 SD empty panels, the 1 HU 1/2 part front plates fitting into the 1 and 2 HU with horizontal orientation and into the 5 HU with vertical orientation. 1 HU 1/2 PFPs does not fit into the 3 HU with vertical orientation.

The modular panel back planes (2) offering highest flexibility to configure cable entries application specific easy and cost-saving. See the configurations of the back planes in the descriptions of the empty panels.



### SMAP-G2 SD distribution panel for PreCONNECT® trunks:

With our since 1991 proved and tested PreCONNECT® square-interface within the panel back planes, the PreCONNECT® trunk cable dividers can be toolless hooked into panels back planes for tensile and torsion resistant fixing of the trunks.

**Material and color:**

- Panel body: aluminum silver
- 19" mounting brackets and front: steel powder coated RAL9005 black

**Weight:**

One of the lowest weight panels of its kind: 1HU empty distribution panel 1.6 kg

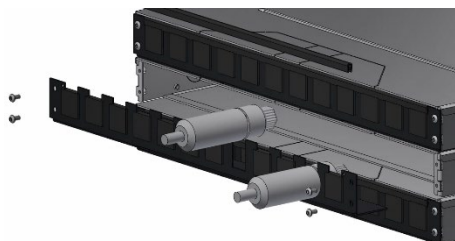
**Dimensions:**

- Width: 19"
- Height: 1, 2, 3 and 5 HU
- Depth: 200 mm and 300 mm. Through the captive screws of their back plane blind covers, the 2, 3 and 5 HU panels are 212 mm and 312 mm deep. We recommend 300 mm as shown here, because the space to accommodate trunk cable dividers and connector legs is enough, but uncomfortable narrow within 200 mm deep panels.

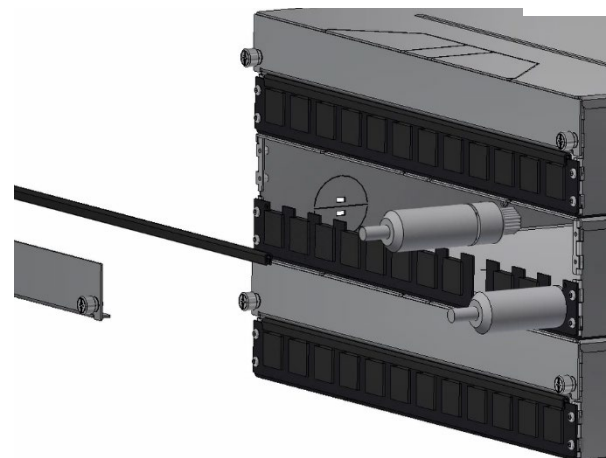
**Part numbers:**

SMAP-G2 SD 19" empty distribution panels, RAL9005 black, back plane with 12 PreCONNECT® square interfaces, as shown here. PreCONNECT® square interfaces dustproof covered with tool less removable blanks, here not shown.

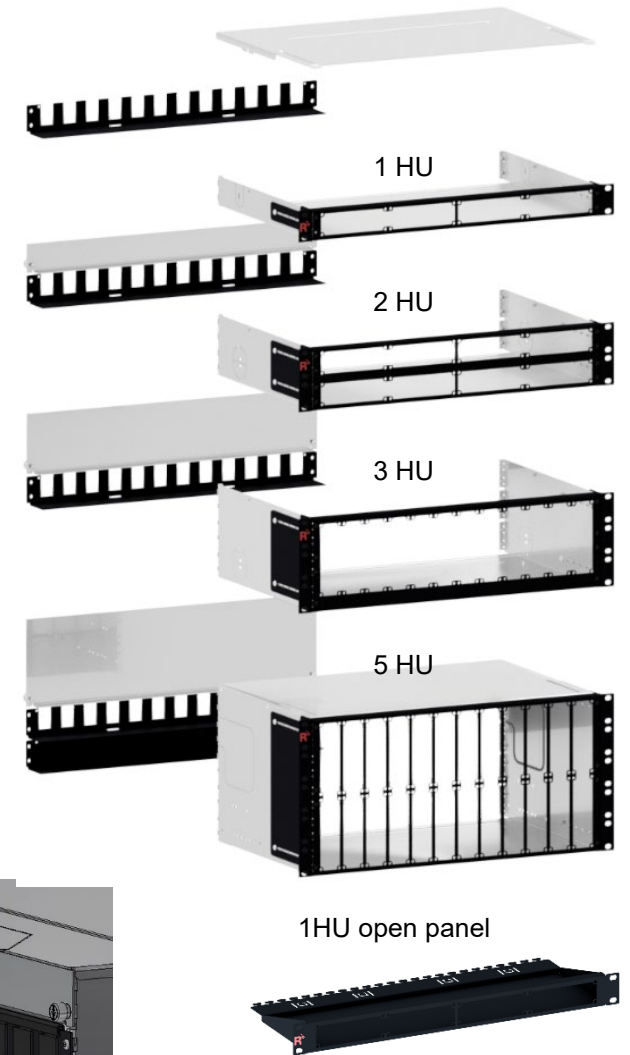
|                               |          |
|-------------------------------|----------|
| 1 HU, depth 300 mm            | 171A0001 |
| 1 HU, depth 200 mm            | 171A0020 |
| 1 HU open panel, depth 185 mm | 171A0030 |
| 2 HU, depth 300 mm            | 172A0001 |
| 3 HU, depth 300 mm            | 173A0001 |
| 5 HU, depth 300 mm            | 175A0001 |



The back plane of the 1 HU panel can be removed for retrofit and maintenance of trunk cables.



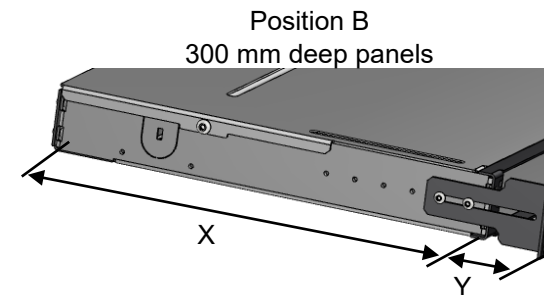
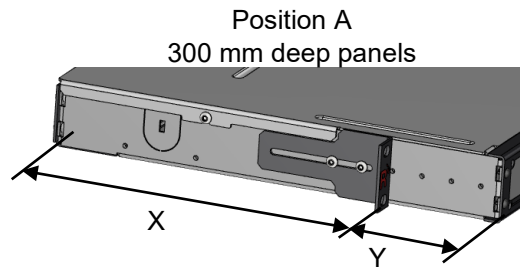
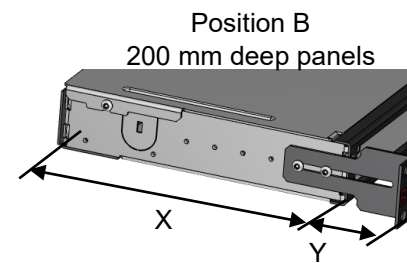
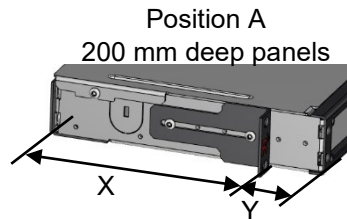
Back plane blind covers at 2, 3 and 5 HU panels can be removed by their captive screws for comfortable trunk cable retrofit and maintenance.



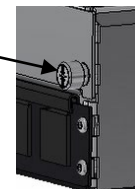
**PreCONNECT® SMAP-G2 SD 19" panel system:**

Through their adjustable 19" mounting brackets, the panels can be stepless mounted to protrude to the front over the 19" level (Position A), or to stay recessed behind it (Position B).

| Position  | panel depth | X [mm] | Y [mm] |
|---|-------------|--------|--------|
| <b>A:</b> protrusion to the front, over the 19" level | 200 mm      | 160    | 40     |
|   | 300 mm      | 225    | 75     |
| <b>B:</b> recessed behind the 19" level               | 200 mm      | 155    | 45     |
|   | 300 mm      | 255    | 45     |



*Through the captive screws of their back plane blind covers, the 2, 3 and 5 HU panels are 212 mm and 312 mm deep. This must be considered at position A in particular, because the panels in these cases need X + 12 mm more depth space.*

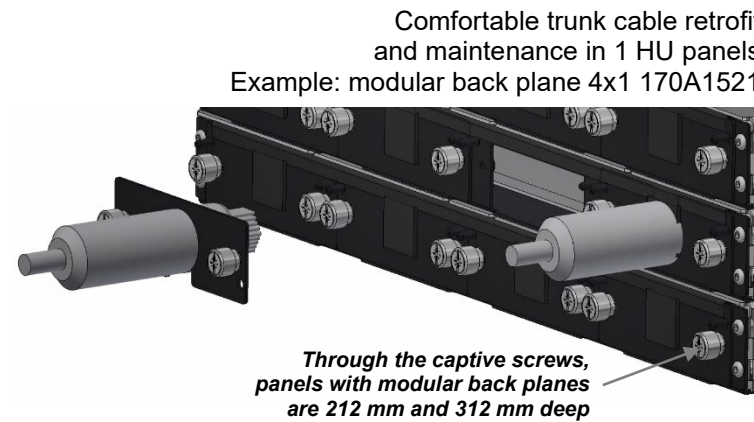


**PreCONNECT® SMAP-G2 SD 19" panel system:**

**Part numbers:**

SMAP-G2 SD 19" empty distribution panels, RAL9005 black, with diverse back planes:

|   |          |
|---|----------|
| 1 HU, depth 300 mm, with modular back plane 2x3 170A1520                | 171A0004 |
| 1 HU, depth 300 mm, with modular back plane 4x1 170A1521                | 171A0011 |
| See these back plane types separate behind in this product information. |          |





**PreCONNECT® SMAP-G2 SD 19" panel system:**

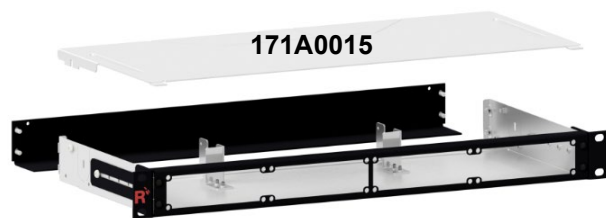
**Part numbers:**

SMAP-G2 SD 19" empty distribution panels, RAL9005 black, with diverse back planes:

|  |          |
|--|----------|
| 1 HU, depth 300 mm, with blind back plane 170A1501 and two trunk cable divider holders 170A1523 to route one trunk cable each through either side of the panel | 171A0012 |
| 1 HU, depth 200 mm, with blind back plane 170A1501 and two trunk cable divider holders 170A1523 to route one trunk cable each through either side of the panel | 171A0015 |

At 1, 2 and 3 HU panels, one trunk cable each can be routed into the panel at either side through to quarry out perforations (1) and can be fixed within internal trunk cable divider holders (2), which can be mounted within the panels.

***This trunk side entry can't be applied at panels equipped with MTP® module cassettes.***

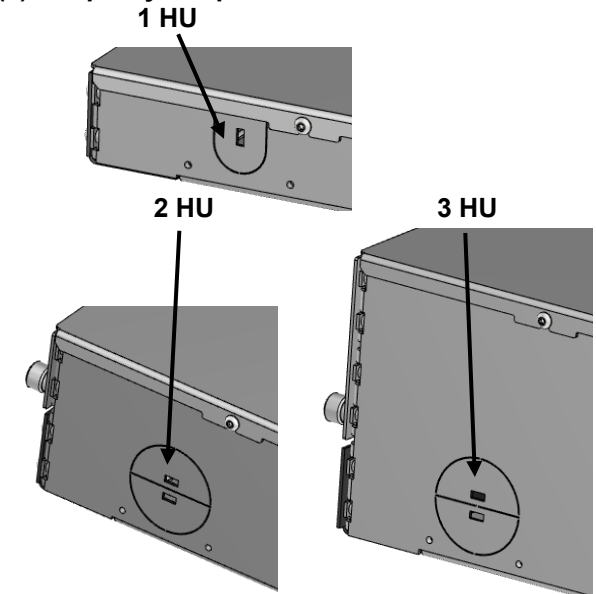


(2) internal trunk cable divider holder for 1, 2 and 3 HU, can be ordered as accessorie part number: 170A1523

Mounted within 1 HU 200mm



(1) to quarry out perforation

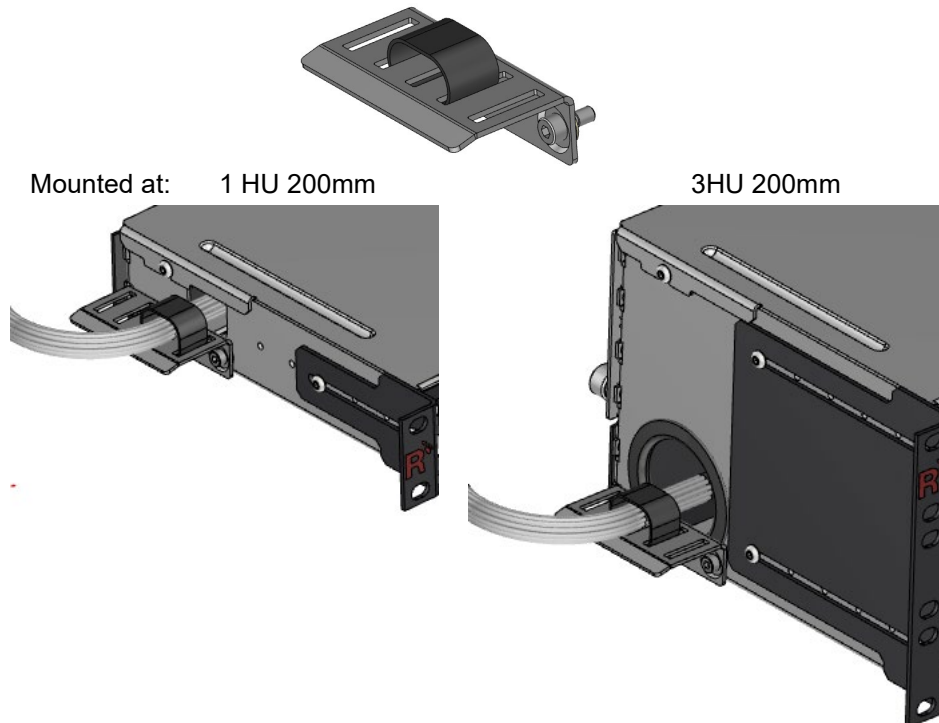


**PreCONNECT® SMAP-G2 SD 19" panel system:**

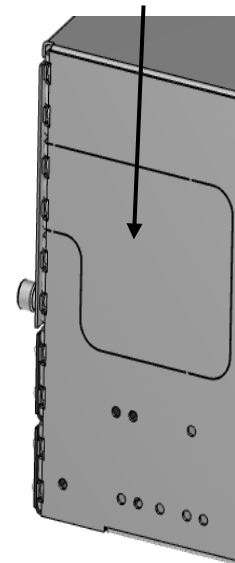
To rout patchcords through the side walls into the 1, 2 and 3 HU panels, the universal cable strain relief (1) is available.

At the 5 HU panel, trunk cables can be routed into the panel at either side through to quarry out perforations (2) and can be fixed within external trunk cable divider holders (3), which can be mounted at the panel's side walls.

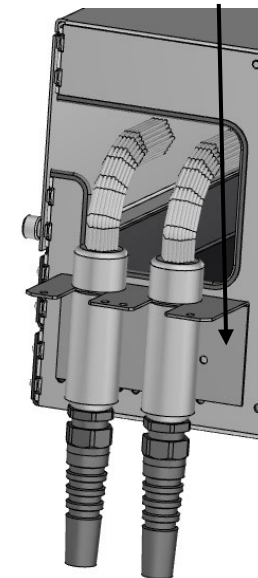
**(1) universal cable strain relief for 1, 2 and 3 HU**  
part number: 170A1526



**(2) to quarry out perforation 5 HU**



**(3) trunk cable divider holder for 5 HU**  
part number: 170A1508

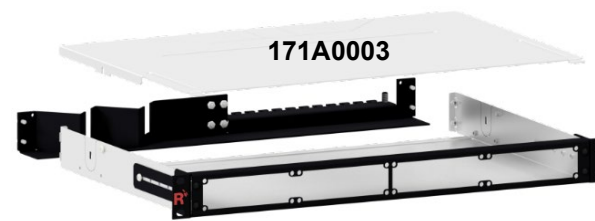
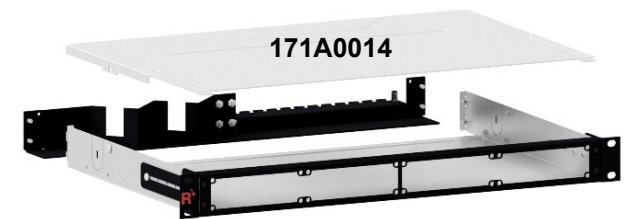
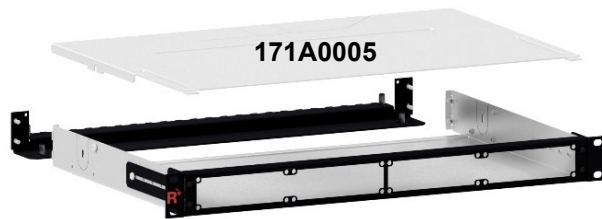


**PreCONNECT® SMAP-G2 SD 19" panel system:**

**Part numbers:**

SMAP-G2 SD 19" empty distribution panels, RAL9005 black, with diverse back planes:

|   |          |
|---|----------|
| 1 HU, depth 300 mm, with back plane 170A1507                            | 171A0005 |
| 1 HU, depth 300 mm, with back plane 170A1512                            | 171A0013 |
| 1 HU, depth 300 mm, with back plane 170A1515                            | 171A0014 |
| 1 HU, depth 300 mm, with back plane 170A1516                            | 171A0009 |
| 1 HU, depth 300 mm, with back plane 170A1518                            | 171A0003 |
| See these back plane types separate behind in this product information. |          |



### SMAP-G2 SD 1 HU 1/4 part front plates with matrix numbering:

All SMAP-G2 SD empty panels can be equipped with 1 HU 1/4 part front plates PFPs. The PFPs are toolless inserted from the front side and fixed with quick fasteners. By this design they can be pulled out to the front for maintenance.

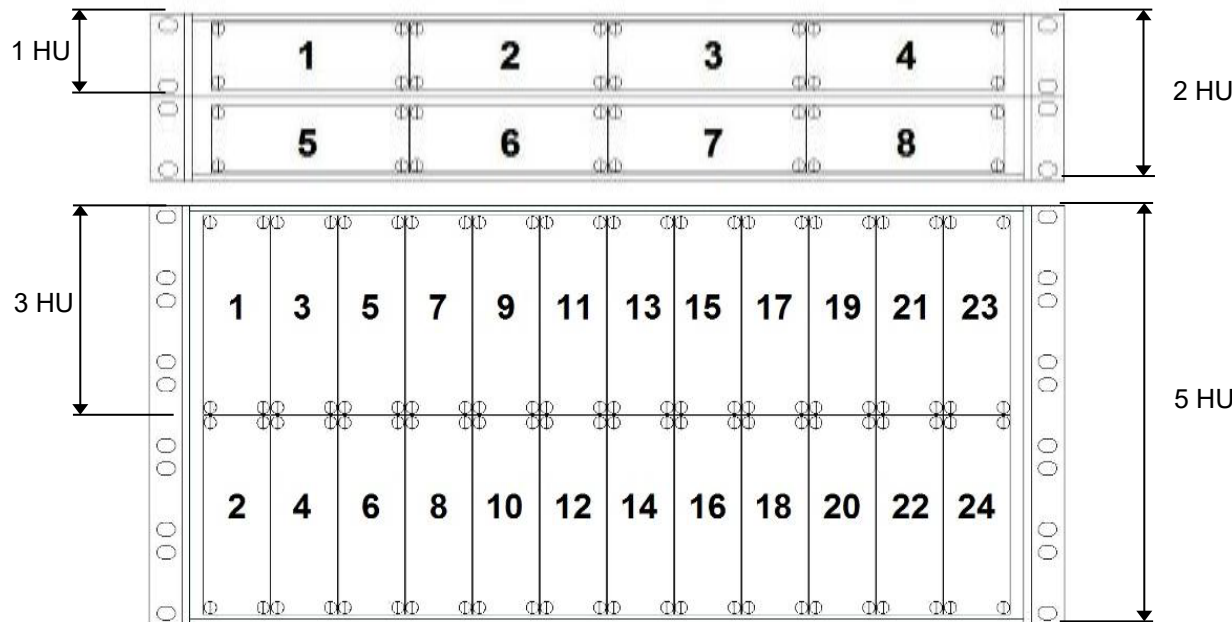
The numbering of the part front plates PFP is a modular numerical matrix. The Ports have a fixed 1 to n labeling (n = number of channels per PFP), e.g. 1 to 6 as shown here at the 1/4 PFP with 6 LC-Duplex.

The PFPs can be numbered with their positions they have within the panels with the exchangeable numbering clips the panels are shipped with. For the PFP's positions within the panels see the matrix diagram below. E.g.: Port 3 – 4 means, PFP number 3 and therein the port number 4.

Material and color: steel powder coated RAL9005 black



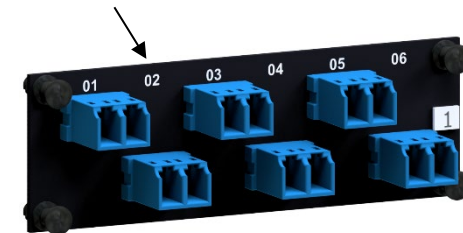
Matrix for 1/4 PFP placement



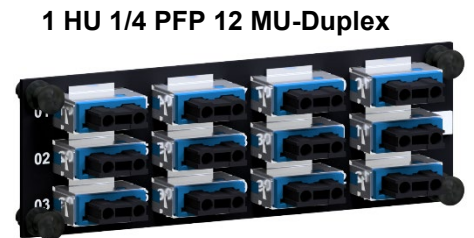
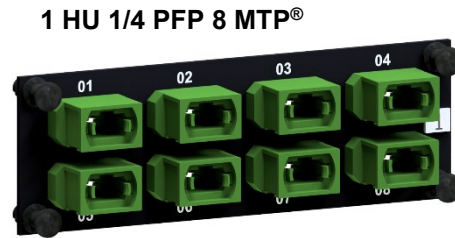
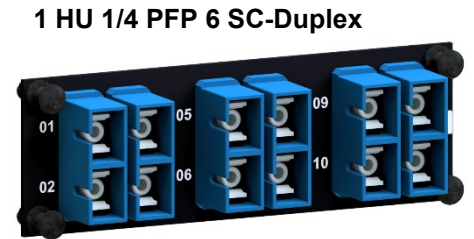
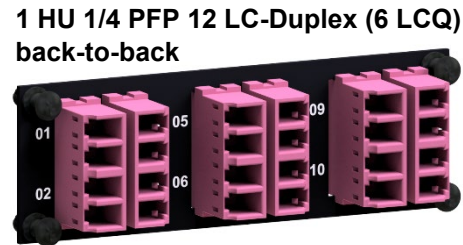
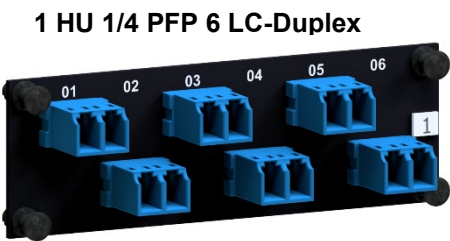
1 HU 1/4 PFP 6 LC-Duplex

1 to n numbering

numbering clip

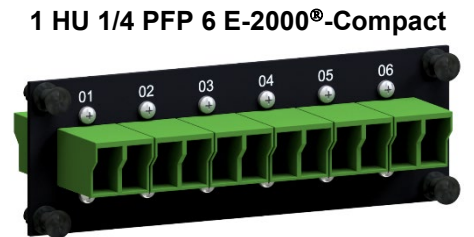


**SMAP-G2 SD 1 HU 1/4 part front plates with matrix numbering:**



| Part numbers RAL9005 black              |                |                               |  |                                 |
|---|----------------|-------------------------------|--|---------------------------------|
| Number of adapter type/fibers           | for fiber type |                               |  |                                 |
|   | SM PC 0° blue  | SM APC 8° green               | OM4 violet                               | MM grey                         |
| Blind PFP                               | 170A0001       |                               |  |                                 |
| 6 LC-Duplex / 12F                       | 170A0110       | 170A0120                      | 170A0130OM4                              | ---                             |
| 12 LC-Duplex (6 LCQ) / 24F back-to-back | 170A0210       | 170A0220                      | 170A0230OM4                              | ---                             |
| 12 LC-Duplex (6 LCQ) / 24F conventional | 170A0211       | 170A0275                      | 170A0237OM4                              | ---                             |
| 6 MTP®                                  | ---            | type A "opposed key" 170A0620 | magenta type A "opposed key" 170A0630OM4 | type B "aligned key" 170A0630TB |
| 8 MTP®                                  | ---            | type A "opposed key" 170A0140 | ---                                      | type B "aligned key" 170A0141TB |
| 12 MTP®                                 | ---            | type A "opposed key" 170A0623 | ---                                      | type B "aligned key" 170A0636TB |
| 12 MU-Duplex-H / 24F                    | 170A0310       | 170A0320                      | 170A0330OM4                              | ---                             |
| 6 SC-Duplex / 12F                       | 170A0410       | 170A0420                      | 170A0430OM4                              | ---                             |
| 6 E-2000®-Compact / 12F                 | 170A0510       | 170A0520                      | ---                                      | ---                             |

With other adapter types on request.



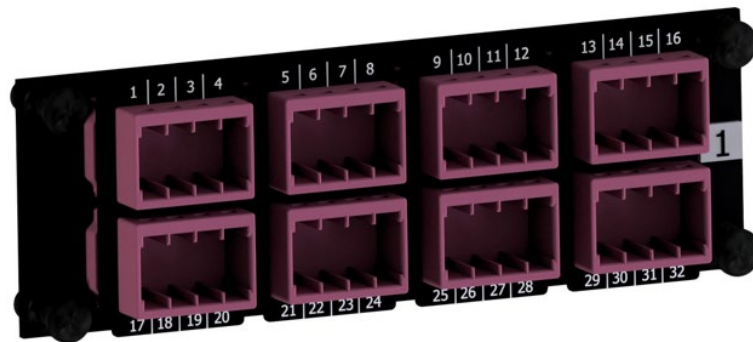
**SMAP-G2 SD 1 HU 1/4 part front plates with matrix numbering:**

| Part numbers RAL9005 black                                |                  |                    |               |
|---|------------------|--------------------|---------------|
| Number of adapter type/fibers                             | for fiber type   |                    |               |
|   | SM PC 0°<br>blue | SM APC 8°<br>green | OM4<br>violet |
| 8 MDC4 / 64F<br>numbering readable at horizontal mounting | 170A0005         | on request         | 170A0006OM4   |
| 8 MDC4 / 64F<br>numbering readable at vertical mounting   | 170A0009         | on request         | 170A0010OM4   |

Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 SD.

*MEGA HIGH DENSITY (MHD) with MDC*

**1 HU 1/4 PFP 8 MDC4  
numbering readable at horizontal mounting**



**1 HU 1/4 PFP 8 MDC4  
numbering readable at vertical mounting**



### SMAP-G2 SD 1 HU 1/2 part front plates with matrix numbering:

SMAP-G2 SD 1 HU, 2 HU and 5 HU can be equipped with 1 HU 1/4 part front plates PFPs, 3 HU can't. The PFPs are toolless inserted from the front side and fixed with quick fasteners. By this design they can be pulled out to the front for maintenance.

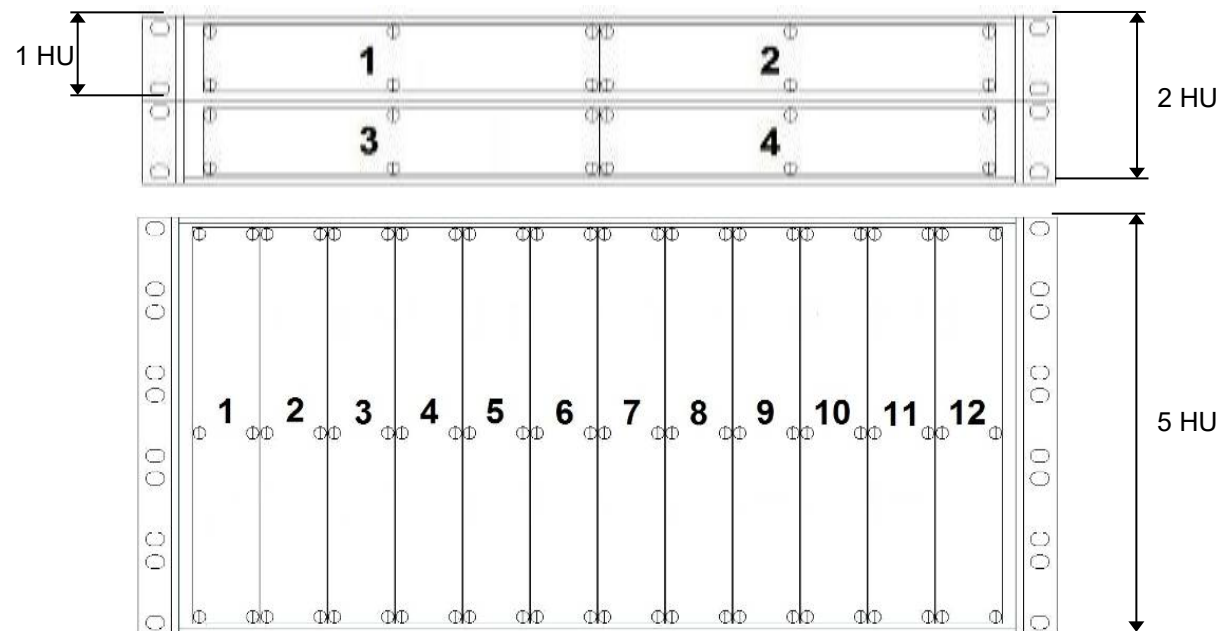
The numbering of the part front plates PFP is a modular numerical matrix. The Ports have a fixed 1 to n labeling (n = number of channels per PFP), e.g. 1 to 12 as shown here at the 1/2 PFP with 12 LC-Duplex.

The PFPs can be numbered with their positions they have within the panels with the exchangeable numbering clips the panels are shipped with. For the PFP's positions within the panels see the matrix diagram below. E.g.: Port 3 – 4 means, PFP number 3 and therein the port number 4.

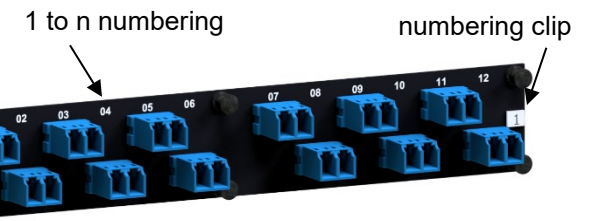
Material and color: steel powder coated RAL9005 black



Matrix for 1/2 PFP placement



1HU 1/2 PFP 12 LC-Duplex



**SMAP-G2 SD 1 HU 1/2 part front plates with matrix numbering:**

1 HU 1/2 PFP 12 LC-Duplex



1 HU 1/2 PFP 24 LC-Duplex (12 LCQ)



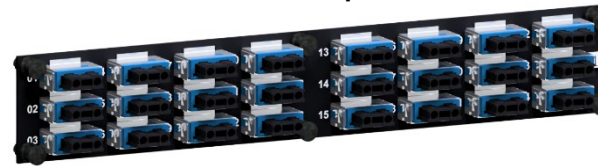
1 HU 1/2 PFP 12 MTP®



1 HU 1/2 PFP 12 SC-Duplex



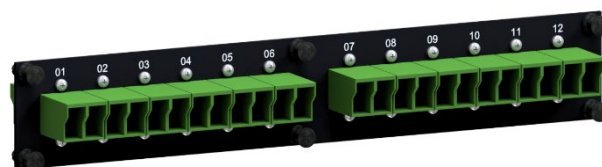
1 HU 1/2 PFP 24 MU-Duplex-Horizontal



1 HU 1/2 PFP 24 MTP®



1 HU 1/2 PFP 12 E-2000®-Compact



1 HU 1/2 Blind PFP



| Part numbers RAL9005 black    |                |                                  |  |                                    |
|-------------------------------|----------------|----------------------------------|--|------------------------------------|
| Number of adapter type/fibers | for fiber type |                                  |  |                                    |
|                               | SM PC 0° blue  | SM APC 8° green                  | OM4 violet                                     | MM grey                            |
| Blind PFP                     | 170A0002       |                                  |  |                                    |
| 12 LC-Duplex / 24F            | 170A0150       | 170A0160                         | 170A0170OM4                                    | ---                                |
| 24 LC-Duplex (12 LCQ) / 48F   | 170A0250       | 170A0260                         | 170A0270OM4                                    | ---                                |
| 12 MTP®                       | ---            | type A "opposed key"<br>170A0660 | magenta<br>type A "opposed key"<br>170A0670OM4 | type B "aligned key"<br>170A0670TB |
| 24 MTP®                       | ---            | type A "opposed key"<br>170A0664 | ---  | type B "aligned key"<br>170A0674TB |
| 24 MU-Duplex-H / 48F          | 170A0350       | 170A0360                         | 170A0370OM4                                    | ---                                |
| 12 SC-Duplex / 24F            | 170A0450       | 170A0460                         | 170A0470OM4                                    | ---                                |
| 12 E-2000®-Compact / 24F      | 170A0550       | 170A0560                         | ---  | ---                                |

With other adapter types on request.



**SMAP-G2 SD panels, 300mm deep, factory assembled with 1 HU part front plates with matrix numbering and back plane with 12 PreCONNECT® square interfaces:**

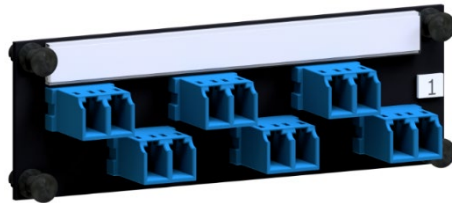
| Part numbers RAL9005 black |                        |                           |   |                                  |
|----------------------------|------------------------|---------------------------|---|----------------------------------|
| HU                         | Number of PFP and type | Number of LC-Duplex ports | SM PC 0° blue                           | OM4 violet                       |
| 1                          | 4 x 1 HU 1/4 6 LCQ     | 48                        | 171A5001                                | 171A5000OM4                      |
| 1                          | 2 x 1 HU 1/2 12 LCQ    | 48                        | 171A5003                                | 171A5002OM4                      |
| 2                          | 8 x 1 HU 1/4 6 LCQ     | 96                        | 171A5005                                | 171A5004OM4                      |
| 2                          | 4 x 1 HU 1/2 12 LCQ    | 96                        | 172A5007                                | 172A5006OM4                      |
| HU                         | Number of PFP and type | Number of MTP® ports      | SM APC 8° green<br>type A "opposed key" | OM4 grey<br>type B "aligned key" |
| 1                          | 4 x 1 HU 1/4 6 MTP®    | 24                        | 171A5009                                | 171A5008OM4                      |
| 1                          | 4 x 1 HU 1/4 8 MTP®    | 32                        | 171A5013                                | 171A5012OM4                      |
| 1                          | 4 x 1 HU 1/4 12 MTP®   | 48                        | 171A5011                                | 171A5010TB                       |
| 2                          | 8 x 1 HU 1/4 6 MTP®    | 48                        | 171A5015                                | 171A5014OM4                      |
| 2                          | 8 x 1 HU 1/4 8 MTP®    | 64                        | 171A5019                                | 171A5018OM4                      |
| 2                          | 8 x 1 HU 1/4 12 MTP®   | 96                        | 172A5017                                | 172A5016TB                       |

Other HU and configuration on request.

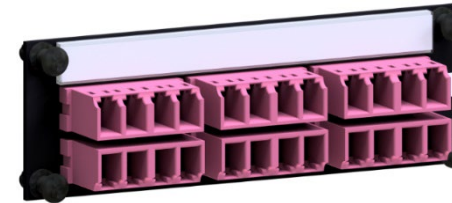


**SMAP-G2 SD 1 HU 1/4 part front plates with labelling field:**

1 HU 1/4 PFP 6 LC-Duplex



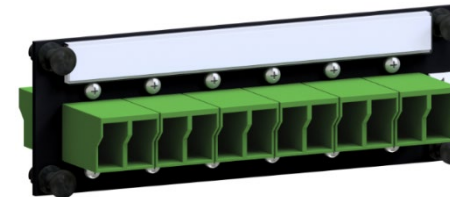
1 HU 1/4 PFP 12 LC-Duplex (6 LCQ)



1 HU 1/4 PFP 6 MTP®



1 HU 1/4 PFP 6 E-2000®-Compact



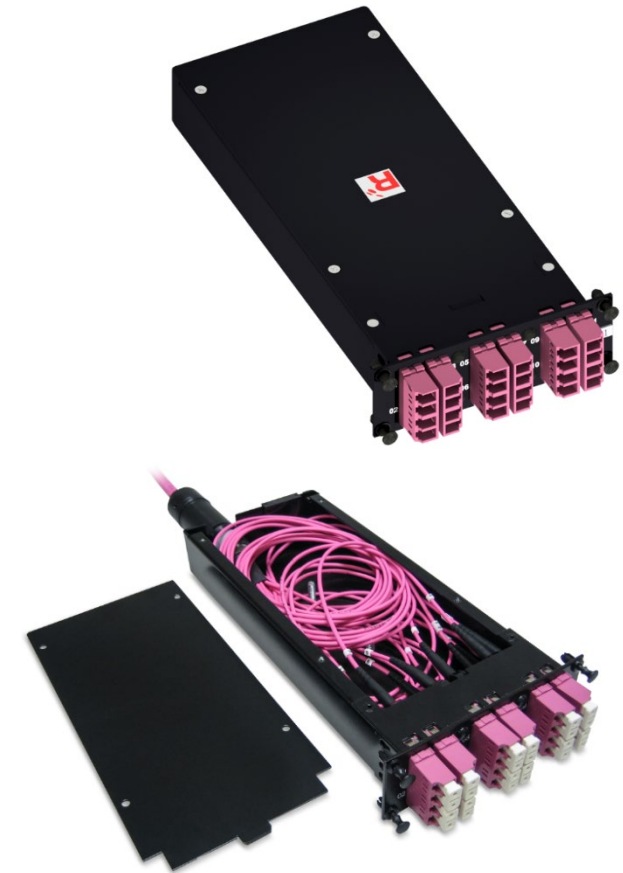
| Part numbers RAL9005 black           |                  |                                  |  |
|--------------------------------------|------------------|----------------------------------|--|
| Number of adapter type/fibers        | for fiber type   |                                  |  |
|                                      | SM PC 0°<br>blue | SM APC 8°<br>green               | OM4<br>violet                                  |
| 6 LC-Duplex / 12F                    | 170A3110         | 170A3120                         | 170A3130OM4                                    |
| 12 LC-Duplex (6 LCQ) / 24F           | 170A3210         | 170A3220                         | 170A3230OM4                                    |
| 6 MTP®                               | ---              | type A "opposed key"<br>170A3620 | magenta<br>type A "opposed key"<br>170A3630OM4 |
| 6 E-2000®-Compact / 12F              | 170A3510         | 170A3520                         | ---  |
| With other adapter types on request. |                  |                                  |  |

**SMAP-G2 SD 24 fibers trunk module:**

**Properties:**

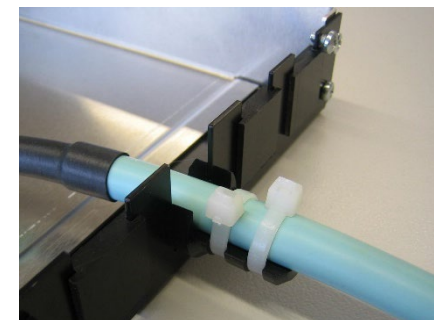
- To accommodate two 12 fiber or one 24 fiber PreCONNECT® STANDARD trunks with standard stepped „A leg lengths“, as described in the product information PreCONNECT® STANDARD
- Height: 1 HU
- Width: 1/4
- Depth: 201 mm, fits in 300 mm deep panels only
- Toolless placement of the trunk module into the panel from the front side, fixing with quick fasteners
- Material and colour:
  - Cassette body: aluminum powder coated RAL9005 black
  - Front: steel powder coated RAL9005 black

| Part numbers RAL9005 black              |             |             |              |
|---|-------------|-------------|--------------|
| Number of LC-Duplex ports at front side | OM4         | SM LC-PC 0° | SM LC-APC 8° |
| 12                                      | 170A2052OM4 | 170A2050    | 170A2051     |



**Fixing of PreCONNECT® STANDARD trunks** at panel back plane using PreCONNECT® universal cable fixture. For cable diameters 6 to 18 mm.

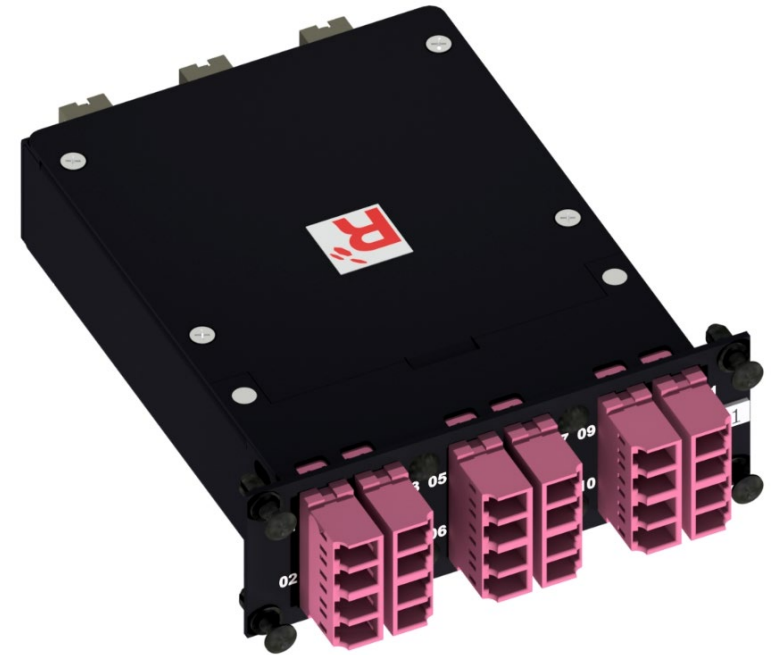
**Part number set incl. two cable ties:** 111A0650



**SMAP-G2 SD 24 fiber MTP®-LC module cassettes fitting for PreCONNECT® OCTO trunks:**

**Properties:**

- For Port-Breakout of PreCONNECT® OCTO trunks with MTP® connectors, as described in the product information PreCONNECT® OCTO
- Height: 1 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 3x MTP® female port 4+4F OCTO at the rear side:
  - OM4: Elite quality MTP® adapter type B „aligned key” grey
  - SM: Standard quality, MTP® adapter type A „opposed key” green
- 12 LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners
- Material and colour:
  - Cassette body: aluminum powder coated RAL9005 black
  - Front: steel powder coated RAL9005 black



| Part numbers RAL9005 black                         |   |             |             |              |
|--|---|-------------|-------------|--------------|
| Number of 4+4F OCTO MTP® female ports at rear side | Number of LC-Duplex ports at front side | OM4         | SM LC-PC 0° | SM LC-APC 8° |
| 3  | 3 OCTO groups of 4 = 12                 | 170A2026OM4 | 170A2027    | on request   |

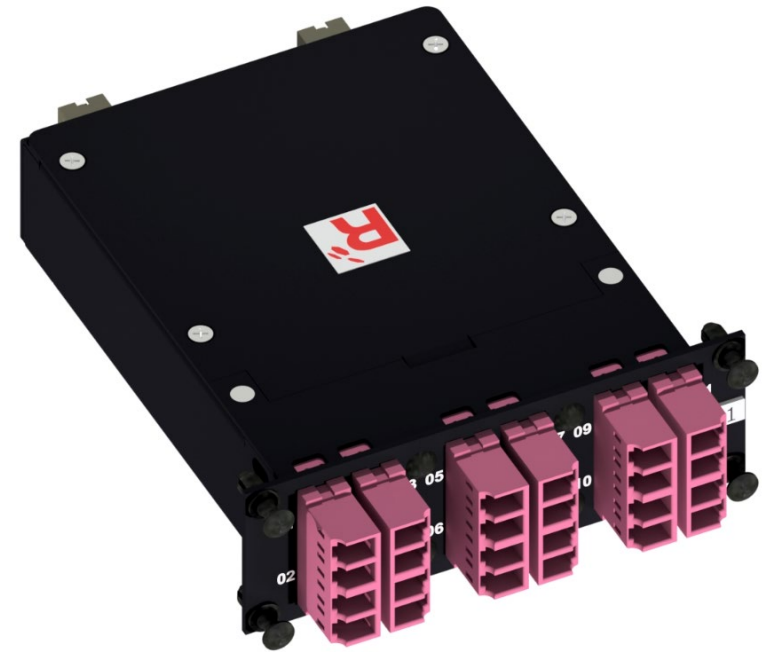
**SMAP-G2 SD panels, 300mm deep, factory assembled with 1 HU 1/4 MTP®-LC module cassettes 3 x OCTO and back plane with 12 PreCONNECT® square interfaces:**

| Part numbers RAL9005 black             |                              |                           |             |             |
|--|------------------------------|---------------------------|-------------|-------------|
| HU                                     | Number of cassettes and type | Number of LC-Duplex ports | OM4         | SM LC-PC 0° |
| 1                                      | 4 x 1 HU 1/4 6 LCQ           | 48                        | 171A2000OM4 | 171A2001    |
| 2                                      | 8 x 1 HU 1/4 6 LCQ           | 96                        | 172A2002OM4 | 172A2003    |
| Other HU and configuration on request. |                              |                           |             |             |

**SMAP-G2 SD 24 fiber MTP®-LC module cassettes fitting for PreCONNECT® DUODECIM trunks:**

**Properties:**

- For Port-Breakout of PreCONNECT® DUODECIM trunks with MTP® connectors, as described in the product information PreCONNECT® DUODECIM
- Height: 1 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 2x MTP® female port 12F DUODECIM at the rear side:
  - OM4: Elite quality MTP® adapter type B „aligned key” grey
  - SM: Standard quality, MTP® adapter type A „opposed key” green
- 12 LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners
- Material and colour:
  - Cassette body: aluminum powder coated RAL9005 black
  - Front: steel powder coated RAL9005 black



| Part numbers RAL9005 black                            |   |             |             |              |
|---|---|-------------|-------------|--------------|
| Number of 12F DUODECIM MTP® female ports at rear side | Number of LC-Duplex ports at front side | OM4         | SM LC-PC 0° | SM LC-APC 8° |
| 2   | 2 DUODECIM groups of 6 = 12             | 170A2025OM4 | 170A2004    | on request   |

**SMAP-G2 SD panels, 300mm deep, factory assembled with 1 HU 1/4 MTP®-LC module cassettes 2 x DUODECIM and back plane with 12 PreCONNECT® square interfaces:**

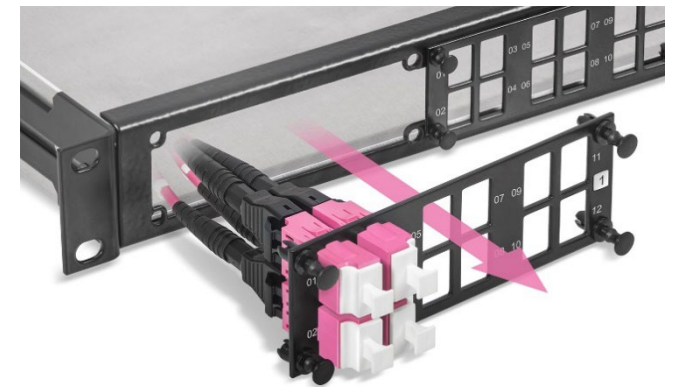
| Part numbers RAL9005 black |                              |                           |             |             |
|----------------------------|------------------------------|---------------------------|-------------|-------------|
| HU                         | Number of cassettes and type | Number of LC-Duplex ports | OM4         | SM LC-PC 0° |
| 1                          | 4 x 1 HU 1/4 6 LCQ           | 48                        | 171A5200OM4 | 171A5201    |
| 2                          | 8 x 1 HU 1/4 6 LCQ           | 96                        | 172A5202OM4 | 172A5203    |

Other HU and configuration on request.

**SMAP-G2 SD PURE  
19" Distribution Panels empty:**

| Part numbers<br>RAL9005 black, 300mm depth |           |
|--|-----------|
| 1 HU                                       | 171A0001P |
| 2 HU                                       | 172A0001P |
| 3 HU                                       | 173A0001P |
| 5 HU                                       | 175A0001P |

**PreCONNECT® PURE LC-Duplex**  
adapter-interface  
at Trunk connector legs



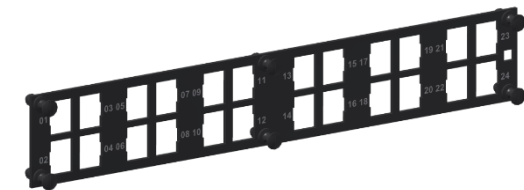
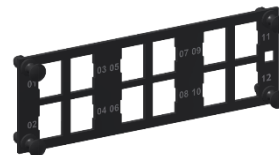
Back planes with 12 PreCONNECT®  
square interfaces



**SMAP-G2 PURE Part-Front-Plates PFP**

1 HU 1/4 PFP for 12 LC-Duplex adapter-interfaces

1 HU 1/2 PFP for 24 LC-Duplex adapter-interfaces



1 HU 1/4 Blind-PFP

1 HU 1/2 Blind-PFP



| SMAP-G2 PURE 1 HU 1/4 and 1/2 Part-Front-Plates part numbers RAL9005 black |  |
|--|--|
| PFP type / number of adapter slots   | SMAP-G2 PURE Part-Front-Plates<br>without adapters |
| 1/4 Blind-PFP  | 170A0001P  |
| 1/2 Blind-PFP  | 170A0002P  |
| 1/4 / 12 LC-Duplex   | 170A0130P  |
| 1/2 / 24 LC-Duplex   | 170A0170P  |

**SMAP-G2 SD 6 Port RJ45 Keystone part front plate fitting for PreCONNECT® COPPER trunks with RJ45 Keystone Jacks:**

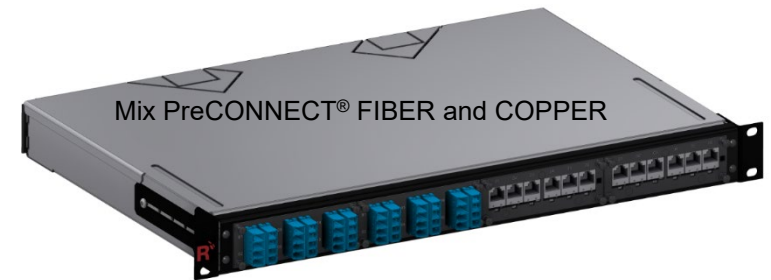
**Properties:**

- To carry PreCONNECT® COPPER and COPPER ToR-G2 trunks assembled with RJ45 Keystone Jacks, as described in the product information PreCONNECT® COPPER and COPPER ToR-G2
- For 6 RJ45 Keystone Jacks
- Height: 1 HU
- Width: 1/4
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners
- Inclusive 2m long grounding cable to connect the PFP, grounding cable is to be routed out of the panel through its back plane and attached at the grounding point of the rack
- Material and colour: steel powder coated RAL9005 black



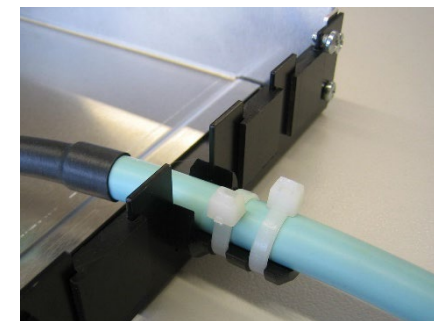
**Part numbers** RAL9005 black: 170A4010

PreCONNECT® COPPER and COPPER ToR-G2 trunk



**Fixing of PreCONNECT® COPPER trunks** at panel back plane using PreCONNECT® universal cable fixture. For cable diameters 6 to 18 mm.

**Part number** set incl. two cable ties: 111A0650



**SMAP-G2 SD splice panel:**

For splice cabling our SMAP-G2 SD 19" panel system is available as splice panel too.

SMAP-G2 SD 19" splice panel can be ordered empty or equipped with our gel-free/dry factory assembled splice cassettes (1) and the fitting splice protectors and splice holders.

We ask you while your request if you like to order cable glands as well. If you order all our offered options with the panel, it comes ready for splicing equipped. You don't need to strip single pigtails and eventually clean gel moistened fibers and you have all necessary accessories present.

The empty splice panels are by default equipped with the back plane for 6 PG21 cable glands per panel as shown here. 4 splice cassettes can be stacked per HU. See more back plane options in chapter accessories.

**Dimensions:**

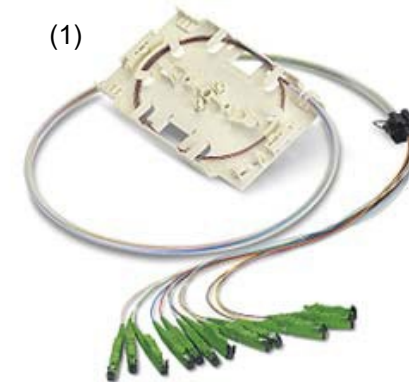
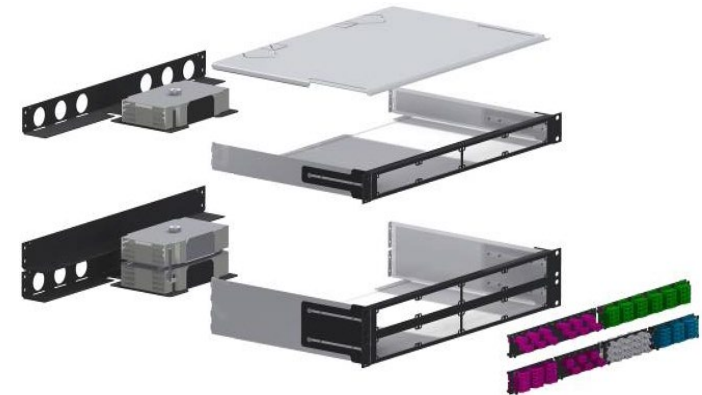
- Width: 19"
- Height: 1 and 2 HU
- Depth: 300 mm

**Material and colour:**

- Panel body: aluminum silver
- 19" mounting brackets and front: steel powder coated RAL9005 black

**Weight:**

One of the lowest weight panels of its kind: 1 HU empty splice panel 1.8 kg





### SMAP-G2 SD splice panel:

We ask you while your request if you like to order factory assembled splice cassettes, the fitting splice protectors and splice holders and cable glands as well. If you order all our offered options with the panel, it comes ready for splicing equipped. You don't need to strip single pigtailed and eventually clean gel moistened fibers and you have all necessary accessories present.

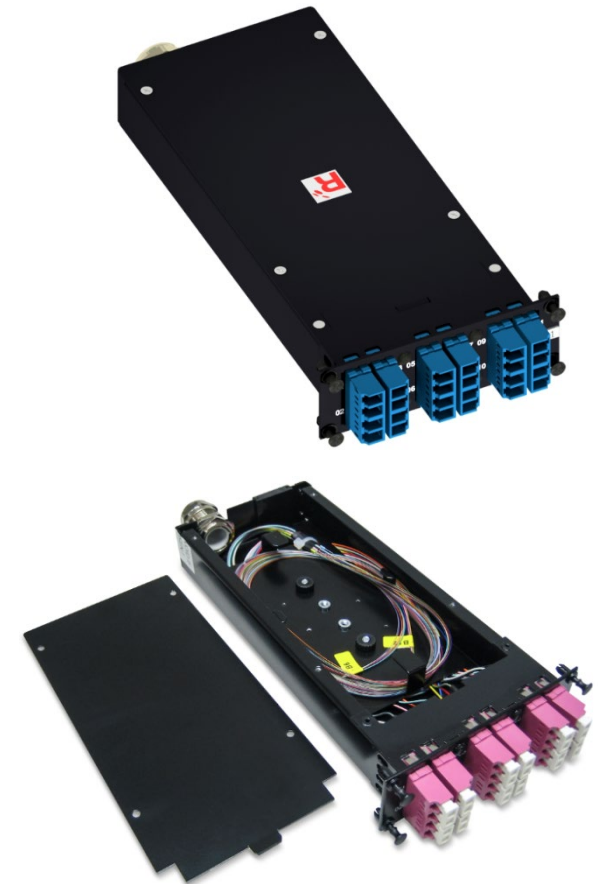
| Part numbers SMAP-G2 SD 19" splice panel, RAL9005 black |   |                  |                    |             |               |
|---|---|------------------|--------------------|-------------|---------------|
| HU  | Adapter type/number of channels (ports)/<br>number of fibers/number of PFP type | for fiber type   |                    |             |               |
|   |   | SM PC 0°<br>blue | SM APC 8°<br>green | OM3<br>aqua | OM4<br>violet |
| 1   | LC-Duplex / 12ch / 24F / 2x1/4  | 171A3111         | 171A3121           | 171A3131OM3 | 171A3131OM4   |
|   | LC-Duplex / 24ch / 48F / 4x1/4  | 171A3113         | 171A3123           | 171A3133OM3 | 171A3133OM4   |
|   | LC-Duplex / 12ch / 24F / 1x1/2  | 171A3150         | 171A3160           | 171A3170OM3 | 171A3170OM4   |
|   | LC-Duplex / 24ch / 48F / 2x1/2  | 171A3151         | 171A3161           | 171A3171OM3 | 171A3171OM4   |
|   | SC-Duplex / 12ch / 24F / 2x1/4  | 171A3411         | 171A3421           | 171A3431OM3 | 171A3431OM4   |
|   | SC-Duplex / 24ch / 48F / 4x1/4  | 171A3413         | 171A3423           | 171A3433OM3 | 171A3433OM4   |
|   | SC-Duplex / 12ch / 24F / 1x1/2  | 171A3450         | 171A3460           | 171A3470OM3 | 171A3470OM4   |
|   | SC-Duplex / 24ch / 48F / 2x1/2  | 171A3451         | 171A3461           | 171A3471OM3 | 171A3471OM4   |
|   | E-2000®-Compact / 12ch / 24F / 2x1/4  | 171A3511         | 171A3521           | 171A3531OM3 | 171A3531OM4   |
|   | E-2000®-Compact / 24ch / 48F / 4x1/4  | 171A3513         | 171A3523           | 171A3533OM3 | 171A3533OM4   |
|   | E-2000®-Compact / 12ch / 24F / 1x1/2  | 171A3550         | 171A3560           | 171A3570OM3 | 171A3570OM4   |
|   | E-2000®-Compact / 24ch / 48F / 2x1/2  | 171A3551         | 171A3561           | 171A3571OM3 | 171A3571OM4   |
| 2   | LC-Duplex / 48ch / 96F / 8x1/4  | 172A3113         | 172A3123           | 172A3133OM3 | 172A3133OM4   |
|   | LC-Duplex / 48ch / 96F / 4x1/2  | 172A3151         | 172A3161           | 172A3171OM3 | 172A3171OM4   |
|   | SC-Duplex / 48ch / 96F / 8x1/4  | 172A3413         | 172A3423           | 172A3433OM3 | 172A3433OM4   |
|   | SC-Duplex / 48ch / 96F / 4x1/2  | 172A3451         | 172A3461           | 172A3471OM3 | 172A3471OM4   |
|   | E-2000®-Compact / 48ch / 96F / 8x1/4  | 172A3513         | 172A3523           | 172A3533OM3 | 172A3533OM4   |
|   | E-2000®-Compact / 48ch / 96F / 4x1/2  | 172A3551         | 172A3561           | 172A3571OM3 | 172A3571OM4   |

With other adapter types and numbers of channels/fibers on request.

### SMAP-G2 SD 24 fiber splice module:

**Properties:**

- Fits only into 300 mm deep panels
- Ready for splicing, factory assembled with colored buffered fiber pigtails, fibers same colors as buffers
- Fiber length 2.0 meter
- Without splice protectors and splice holders, they must be ordered separately, see product information 19" panel accessories
- Inclusive PG13.5 cable gland for cable diameter 6 to 12 mm within back plane
- Height: 1 HU
- Width: 1/4
- Depth without cable gland: 201 mm
- Toolless placement of the splice module into the panel from the front side, fixing with quick fasteners
- Material and colour:
  - - module body: aluminum powder coated RAL9005 black
  - - Front: steel powder coated RAL9005 black



| Part numbers RAL9005 black              |             |             |              |
|---|-------------|-------------|--------------|
| Number of LC-Duplex ports at front side | OM4         | SM LC-PC 0° | SM LC-APC 8° |
| 12                                      | 170A2040OM4 | 170A2041    | 170A2042     |

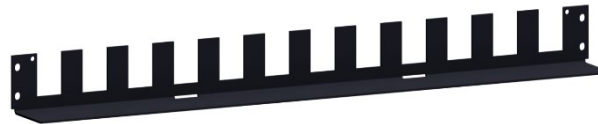
**SMAP-G2 SD back planes, steel powder coated RAL9005 black:**

**Blind back plane**



**Part number 170A1501**

**With 12 PreCONNECT® square interfaces**



**Part number 170A1502**

**With 16 PreCONNECT® square interfaces**



**Part number 170A1503**

**Modular back plane 2x3**

Right and left one toolless mountable plate with each 3 PreCONNECT® square interfaces.  
3 fixed PreCONNECT® square interfaces in the center.



**Part number 170A1520**

**Modular back plane 4x1**

4 toolless mountable plate with each 1 PreCONNECT® square interface.



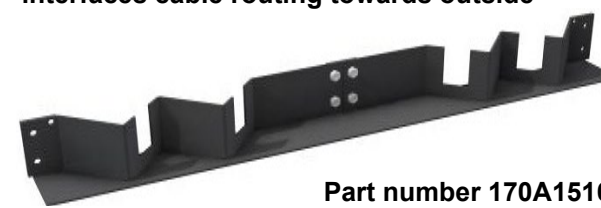
**Part number 170A1521**

**Z back plane with 4 PreCONNECT® square interfaces cable routing towards inside**



**Part number 170A1512**

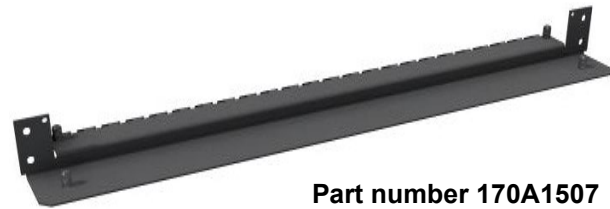
**Z back plane with 4 PreCONNECT® square interfaces cable routing towards outside**



**Part number 170A1516**

**SMAP-G2 SD back planes, steel powder coated RAL9005 black:**

For universal fixing of cables with cable ties



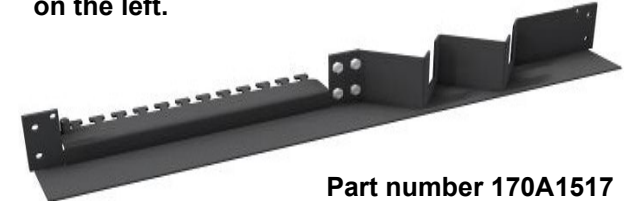
Part number 170A1507

Z back plane with 2 PreCONNECT® square interfaces on the left, cable routing towards inside. Universal fixing of cables with cable ties on the right.



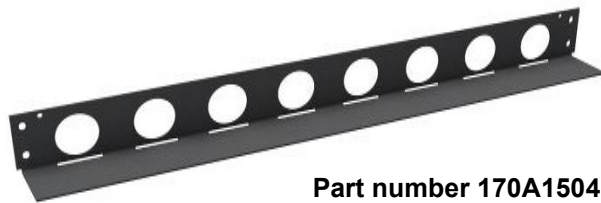
Part number 170A1515

Z back plane with 2 PreCONNECT® square interfaces on the right, cable routing towards inside. Universal fixing of cables with cable ties on the left.



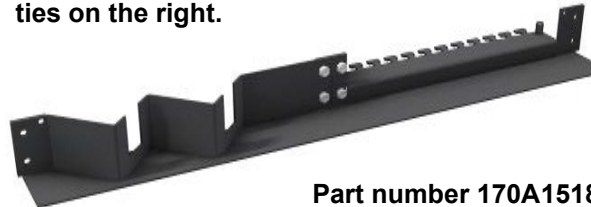
Part number 170A1517

With 8 holes diameter 29mm fitting for PG21 cable glands



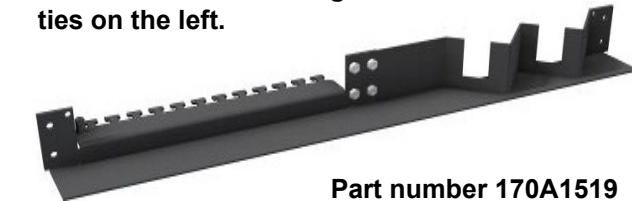
Part number 170A1504

Z back plane with 2 PreCONNECT® square interfaces on the left, cable routing towards outside. Universal fixing of cables with cable ties on the right.



Part number 170A1518

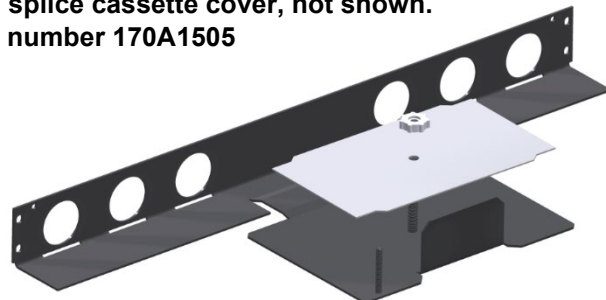
Z back plane with 2 PreCONNECT® square interfaces on the right, cable routing towards outside. Universal fixing of cables with cable ties on the left.



Part number 170A1519

Splice panel back plane:

With 6 holes diameter 29 mm, fitting for PG21 cable glands.  
Capacity for 4 splice cassettes.  
Incl. splice cassette cover, not shown.  
Part number 170A1505



Splice cassette module to stack up to 4 splice cassettes at the splice panel back plane shown on the left, within panels higher than 1 HU.

Part number 170A1506

Example 2HU with 2x 4 splice cassettes



**Patchcords:**

**Properties:**

- Kink and crush resistance optimized for environmental conditions
- Operating temperature range: -10°C to +60°C
- Polarity:
- Full-duplex cables with duplex connectors on both sides “crossed” A to B in accordance with ISO/IEC 11801 and EN 50173

**Length tolerances:**

- Up to 1 m = - 50 mm
- 2 m to 3 m = - 100 mm
- 4 m to 25 m = - 200 mm
- Longer than 25 m = - 1 %

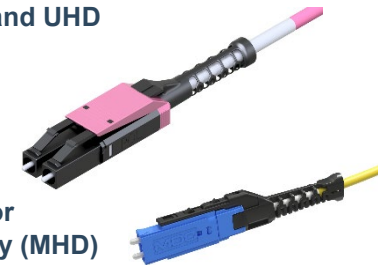
**Delivery form:**

- Attenuation (IL) measured in accordance with IEC 61300-3-4 „C“ or „Substitution“ method, MM 850nm/SM 1310nm, measurement values on request, or can be downloaded from our website by using the serial numbers of the patchcords <https://www.rosenberger.com/products/download-measurement-data/>
- Serial number labels with length information at both patchcord ends
- Individually packaged in foil bags with product ID label

For our SMAP-G2 HD and SMAP-G2 UHD 19" panel systems only patchcords with diameter 2.0mm or thinner should be applied.



With LC-COMPACT (LCC) connectors for SMAP-G2 SD 19" panel system



With LC-COMPACT Push-Pull-Boot (LCC-PPB) connectors for SMAP-G2 HD and UHD 19" panel system

MDC connector for Mega High Density (MHD)

| <b>Part numbers</b><br><b>Duplex patchcord cable type round I-V(ZN)H and I-V(ZN)H(ZN)H FRNC-LSZH</b> |                                 |          |             |                |                |
|--|---------------------------------|----------|-------------|----------------|----------------|
| Cable diameter   | Connectors                      | Length   | OM4         | OS2 PC 0°      | OS2 APC 8°     |
| 1.6 mm   | MDC » MDC                       | variable | 092A0010OM4 | 092A0009G657A1 | on request     |
|  | MDC » LC-COMPACT PPB            | variable | 092A0012OM4 | 092A0011G657A1 | on request     |
|  | LC-COMPACT PPB » LC-COMPACT PPB | variable | 087A6949OM4 | 087A6948G657A1 | 087A6950G657A1 |
| 2.0 mm   | LC-COMPACT » LC-COMPACT         | variable | 087A6623OM4 | 087A6620G657A1 | 087A6622G657A1 |
|  | LC-COMPACT PPB » LC-COMPACT PPB | variable | 087A6737OM4 | 087A6738G657A1 | 087A6747G657A1 |
|  | MDC » MDC                       | variable | 092A0004OM4 | 092A0003G657A1 | on request     |
|  | MDC » LC-COMPACT                | variable | 092A0008OM4 | 092A0007G657A1 | on request     |
|  | MDC » LC-COMPACT PPB            | variable | 092A0008OM4 | 092A0007G657A1 | on request     |
|  | LC-COMPACT » LC-COMPACT         | variable | 087A6601OM4 | 087A6600G657A1 | 087A6609G657A1 |
| 2.8 mm   | LC-COMPACT PPB » LC-COMPACT PPB | variable | 087A6753OM4 | 087A6754G657A1 | 087A6755G657A1 |
|  | LC-COMPACT » LC-COMPACT         | variable | 087A6613OM4 | 087A6610G657A1 | 087A6612G657A1 |
| double jacket<br>2.8 / 5.0 mm  | LC-COMPACT PPB » LC-COMPACT PPB | variable | 087A6759OM4 | 087A6760G657A1 | 087A6761G657A1 |

Technical data of connectors, fibers and cables on request via the product profile of your selected patchcords.

**Patchcords:**



 **Part numbers**  
**Duplex patchcords cable type Zipcord I-V(ZN)H 2 x 2.1 mm FRNC-LSZH**

| Connectors            | Length   | SM             | OM4         |
|-----------------------|----------|----------------|-------------|
| LC-Duplex » LC-Duplex | variable | 087A5005G657A1 | 087A5015OM4 |
| LC-Duplex » SC-Duplex | variable | 087A5035G657A1 | 087A5045OM4 |

With other connectors and fiber types on request.

 **Part numbers**  
**Duplex patchcords cable type Zipcord I-V(ZN)H 2 x 2.8 mm FRNC-LSZH**

| Connectors                                | Length   | SM             | OM4         |
|---|----------|----------------|-------------|
| SC-Duplex » SC-Duplex                     | variable | 062A0180G657A1 | 062A0160OM4 |
| SC-Duplex » LC-Duplex                     | variable | 087A2068G657A1 | 087A2078OM4 |
| E-2000® HRL Simplex » E-2000® HRL Simplex | variable | 069A2200G657A1 | -           |

With other connectors and fiber types on request.

 **Part numbers**  
**Duplex patchcords cable type double-jacket flat-breakout I-V(ZN)HH 2 x 2.1 mm FRNC-LSZH**

| Connectors                                | Length   | SM             | OM4         |
|---|----------|----------------|-------------|
| LC-Duplex » LC-Duplex                     | variable | 087A1900G657A1 | 087A1911OM4 |
| LC-Duplex » SC-Duplex                     | variable | 087A2000G657A1 | 087A2079OM4 |
| E-2000® HRL Simplex » E-2000® HRL Simplex | variable | 069A2202G657A1 | -           |

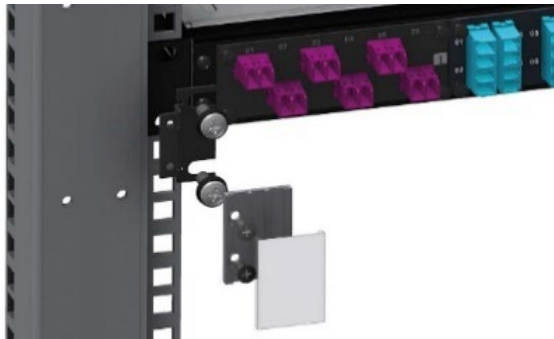
With other connectors and fiber types on request.

 **Part numbers**  
**Duplex patchcords cable type double-jacket flat-breakout I-V(ZN)HH 2 x 2.8 mm FRNC-LSZH**

| Connectors                                | Length   | SM             | OM4         |
|---|----------|----------------|-------------|
| SC-Duplex » SC-Duplex                     | variable | 062A0179G657A1 | 062A0159OM4 |
| SC-Duplex » LC-Duplex                     | variable | 087A2069G657A1 | 087A2011OM4 |
| E-2000® HRL Simplex » E-2000® HRL Simplex | variable | 069A2201G657A1 | -           |

With other connectors and fiber types on request.

For 19" panel accessories see our product information 19" panel accessories:

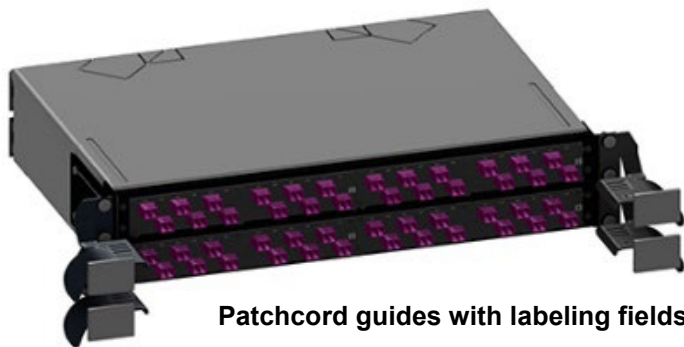


Labeling fields



Patchcord manager

- height units saving (0 HU) mountable in front of 19" panels
- with foldaway front cover
- with optional labelling and port address fields



Patchcord guides with labeling fields



## About Rosenberger OSI:

Since 1991, Rosenberger Optical Solutions & Infrastructure (Rosenberger OSI) has been a recognized expert for fiber-based connectivity, cabling solutions and infrastructure services in the areas of data centers, local area networks, mobile networks and industrial applications. As an integrated solution provider, we have high expertise in the development and operational excellence in the production of system solutions for communication networks. Our comprehensive services enable the secure and efficient operation of digital infrastructures. This combination, combined with our strong customer focus, makes us unique and a strong partner in the global market.

Rosenberger OSI has been part of the globally operating Rosenberger Group since 1998. The Rosenberger Group is a leading global provider of high-frequency, high-voltage and fiber optic connectivity solutions with headquarters in Germany. For further information, please visit:

[www.rosenberger.com/osi](http://www.rosenberger.com/osi)

# Rosenberger

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