Rosenberger

PreCONNECT® SEDECIM

PRODUCT INFORMATION

PreCONNECT® SEDECIM solution is available in three end face quality features: BASIC, PURE and LOTUS

Define the end face quality according to your application requirements:

Quality feature BASIC is our well-proven, high-grade, standards compliant product in terms of end face geometry, defect, and cleanness, providing excellent IL and RL performance:

- The PreCONNECT® factory-assembled plug & play system enables quick and reliable, cost efficient, installation and performance
- Harmonized modular components of the quality feature BASIC solution ensure end to end performance of the entire channel

Quality feature PURE is the enhanced version of our quality feature BASIC, but with more stringent defect and cleanliness screening and factory sealed, tamper evident adapter interfaces.

- Guaranteed protection of the polished connector end face against contamination and damage through sealed adapter interfaces, enabling time savings during initial installation and commissioning due to the elimination of the need for cleaning and testing*/**.
- Quality feature PURE provides an industry leading low random mate insertion and return loss (mean) which enables up to six (6) mated pairs in a 10G/OM4 application up to 300m.

Quality feature LOTUS builds upon our BASIC and PURE performance by introducing our unique LOTUS end face coating technology that provides dirt, moisture, and grease repellence to maintain cleanliness in initial and subsequent matings.

- Potential long-term time savings by reducing or eliminating the need for cleaning during initial installation and subsequent MACs
- Increased reliability and availability throughout various environmental and contaminate environments

Part numbers:

Quality feature BASIC: The part numbers XXXAXXXX listed in this document are valid for the BASIC quality feature.

Quality feature PURE: Add a "**P**" to the end of the quality feature BASIC part number (*Example: XXXAXXXX**P***)

Quality feature LOTUS: Add an "**L**" to the end of the quality feature BASIC part number (*Example: XXXAXXXX**L***)

(Note: PURE trunk cables have factory attached sealed coupling adapters incorporated and thus utilize empty patch panels and enclosures)

* *While Rosenberger does not require permanent link or channel testing for warranty registration of PURE installations due to guaranteed performance, certain customers will require testing documentation for their records.*

** *Only applicable when all components are of quality feature PURE and installed by trained PURE installers.*

Applications:

Infrastructure and IT room cabling within data centers

System consists of:

- Factory assembled fiber optic breakout cables, FRNC-LSZH indoor cables, up to 9 x 16 = 144 fibers with connector systems MTP® 16 fiber per MTP® channel
- MPO/MTP® Port-breakout with MTP®-LC and MTP®-MDC harnesses, MTP® module cassettes with LC and MDC front, and MTP®-LC Port-Breakout-Units
- Two 19“ panel systems selectable: SMAP-G2 HD and SMAP-G2 UHD
- Suitable patchcords
- Useful accessories
- Patch location rack

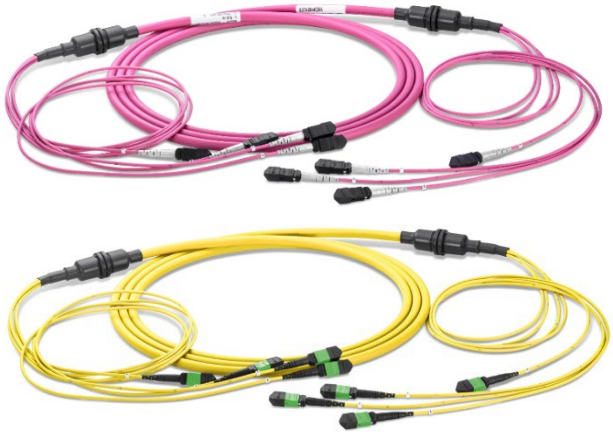
Features:

- For all who already have on minimum one cabling side MPO16 fiber based parallel optics SR8 and DR8/PSM8 transceivers
- Cost and attenuation optimized for SR8 and DR8/PSM8 applications

Your benefits at a glance:

- MTP® cabling system perfectly fitting for SR8 and DR8/PSM8 applications
- Fast and safe installation through factory assembled plug & play systematic
- Highest quality and cost-efficiency through factory assembling
- PreCONNECT® cabling systems consist of perfectly harmonized modular single components

PreCONNECT® SEDECIM breakout trunk



PreCONNECT® SEDECIM harnesse with LC-COMPACT and MDC

PreCONNECT® SEDECIM patchcords

LC-COMPACT and MDC patchcords

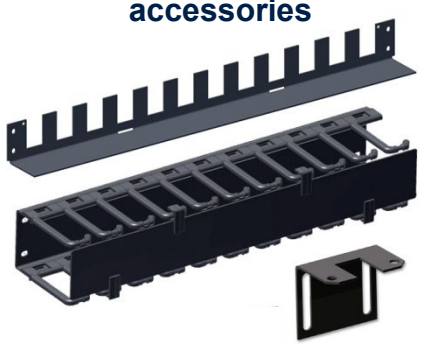
patch location rack

19” panel systems

SMAP-G2 HD

SMAP-G2 UHD

accessories

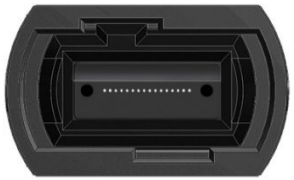


Application:

MTP® (MPO) based data center cabling with 16 fibers per MTP® channel:

Optimized for parallel optics MPO 16 fiber applications:

- **400GBASE-SR8**
- **800GBASE-SR8**
- **800GBASE-DR8**
- **800G-PSM8**



Easy migration to lower speed applications.

System description:

Our PreCONNECT® SEDECIM cabling system consists of:

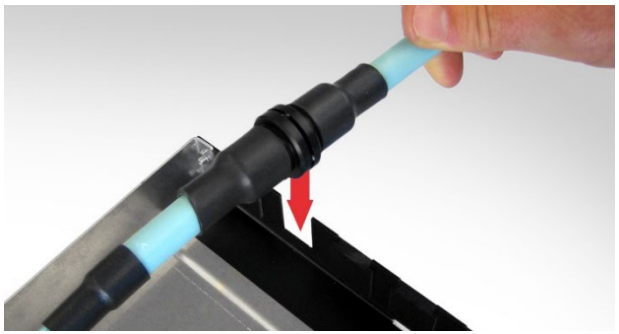
- SEDECIM breakout trunk called factory assembled FO cables with up to 9 SR8 MTP® channels (9x16=144 fibers).
- 19” panel systems with part front plates with MTP®/MPO adapters, SEDECIM module cassettes and MTP®-LC Port-Breakout-Units
- SEDECIM patchcords and harnesses
- Useful accessories
- Patch location racks

Rosenberger OSI brought already 1991 high fibercount factory assembled FO trunk cables to the market. PreCONNECT® STANDARD was the first in Europe developed and manufactured, high fibercount and modular „plug & play“ FO cabling system and already 1997 we have been the first manufacturer of MTP® cabling systems in Europe.

Properties:

PreCONNECT® square interface and installation protection:

PreCONNECT® SEDECIM breakout trunks have PreCONNECT® square interfaces on both sides which can be tool-less hooked into the 19” panel systems for tensile and torsion resistant fixing of the trunks.



The trunk connector legs are fitting for the 19“ panel systems and are packaged in non-pull resistant dust-proof foil tubes. On request with tensile strength, crush resistant, kink and torsion resistant, installation tubes deliverable.

Installation Tube Indoor, IP50 dustproof

Properties:

Connector types:

- To reach reliable high return loss in multimode applications as well, the MTP® 16 fiber multimode connectors of PreCONNECT® SEDECIM OM4 are APC 8° polished, with white boot as color code.
- The MTP® 16 fiber singlemode connectors of PreCONNECT® SEDECIM SM are APC 8° polished, as all MTP® singlemode connectors so far, with green connector housing as color code.
- MTP® 16 fiber connectors have an off-center key
- SEDECIM breakout trunks: MTP® 16 fiber, APC 8°, male
- SEDECIM patchcords, harnesses and module cassettes: MTP® 16 fiber, APC 8°, female

Adapter types:

- MTP® by16 Multimode: Off-center key, TIA type A “opposed key” „1 to 1“, white
- MTP® by16 Singlemode: Off-center key, TIA type A “opposed key” „1 to 1“, green

Polarity:

- SEDECIM breakout trunks: TIA Method B „1 to 16“
- SEDECIM patchcords, harnesses and module cassettes: see pages of the products

Cable types:

- SEDECIM breakout trunks: I-F(ZN)H(ZN)H 16 fibers CPR class B2ca and I-F(ZN)HH n x 16 fibers CPR class Cca
- SEDECIM patchcords and harnesses I-F(ZN)H and I-F(ZN)H(ZN)H 16 fibers
- Cable data, see separate cable data sheets

Operating temperature range: Climate class C „indoor, controlled environment“ acc. to IEC 60753-1, -10°C to +60°C

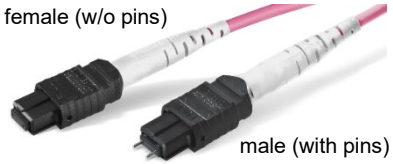
Fiber type:

- Multimode OM4 bend-insensitive
- Singlemode G.657.A1 bend-insensitive and backwards compatible to G.652.D
- Fiber data, see separate fiber data sheets

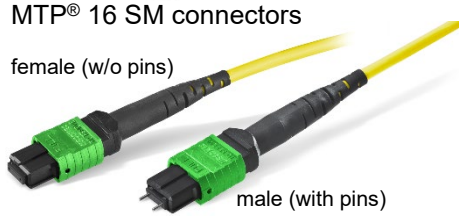
Delivery form:

- Dependent on the length as cable ring or on cardboard or wooden drum
- Insertion loss and return loss measured acc. to IEC 61300-3-4, method B, MM 850/1300nm and SM 1310/1550nm, with measurement protocol
- Product label with serial number at both sides

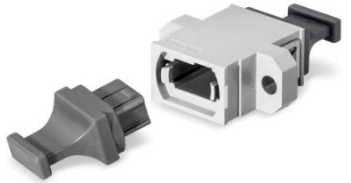
MTP® 16 MM APC 8° connectors



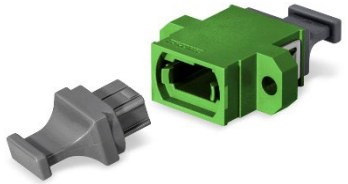
MTP® 16 SM connectors



MTP® by16 MM adapter, off-center key
TIA Typ A „opposed key“ „1 to 1“ white



MTP® by16 SM adapter, off-center key
TIA Typ A „opposed key“ „1 to 1“ green



I-F(ZN)HH 6 x 16 fiber breakout cable

PreCONNECT® SEDECIM application case point-to-point:

- **400/800GBASE-SR8 MPO16-MPO16**

PreCONNECT® SEDECIM breakout trunk

400/800GBASE-SR8 MPO16 Transceiver

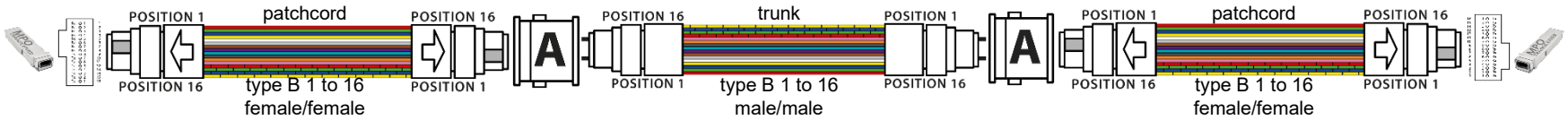
400/800GBASE-SR8 MPO16 Transceiver

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

PreCONNECT® SEDECIM patchcord

PreCONNECT® SEDECIM patchcord

channel lengths see behind in this product information



Patchcord and trunk IEC fiber color code / MTP® adapter A „opposed keys“ „1 to 1“

PreCONNECT® SEDECIM application case port breakout with MTP® harness:

MULTIMODE

- **400/800GBASE-SR8 MPO16 to 8x 50/100GBASE-SR LC-Duplex**

400/800GBASE-SR8 MPO16 Transceiver

PreCONNECT® SEDECIM breakout trunk

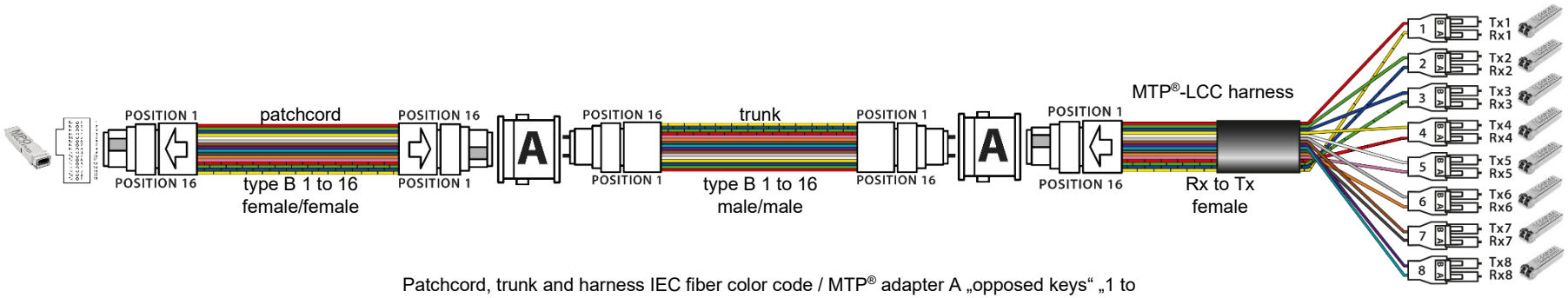
50/100GBASE-SR/SW LC-Duplex Transceiver

PreCONNECT® SMAP-G2 HD 19“ panel system 3/3 width partition equipped with 1/3 MTP® part front plates

PreCONNECT® SEDECIM patchcord

PreCONNECT® SEDECIM MTP®-LCC harness

channel lengths see behind in this product information



Patchcord, trunk and harness IEC fiber color code / MTP® adapter A „opposed keys“ „1 to

PreCONNECT® SEDECIM application case port breakout with MTP® module cassette:

- **400/800GBASE-SR8 MPO16 to 8x 50/100GBASE-SR LC-Duplex**

400/800GBASE-SR8 MPO16 Transceiver

PreCONNECT® SEDECIM breakout trunk

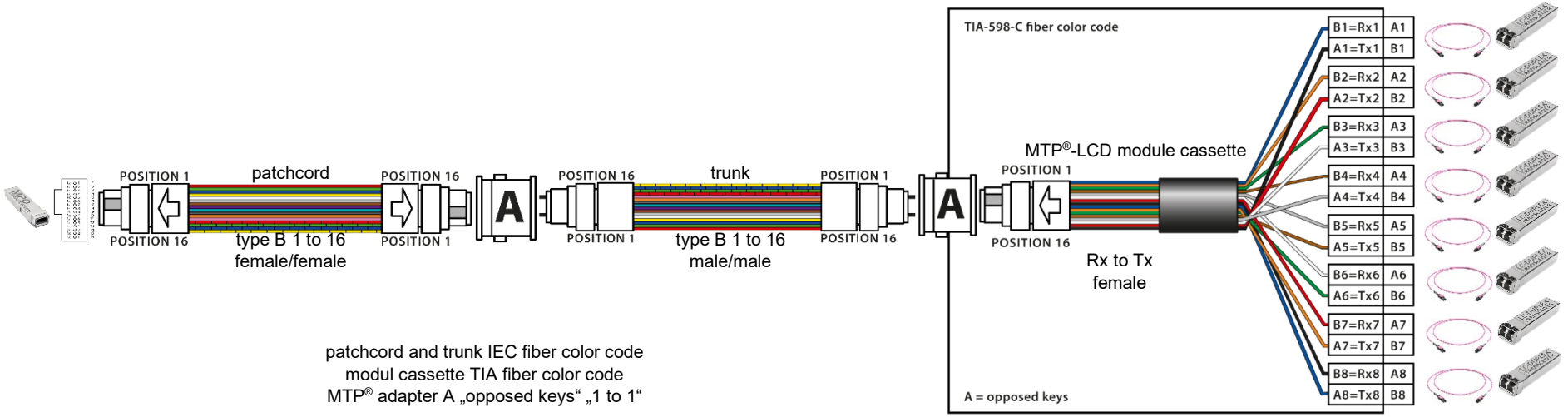
50/100GBASE-SR/SW LC-Duplex Transceiver

LCC-PPB patchcords

PreCONNECT® SMAP-G2 HD 19“ panel system 3/3 width partition equipped with 1/3 MTP® part front plates and module cassettes

PreCONNECT® SEDECIM patchcords

channel lengths see behind in this product information



patchcord and trunk IEC fiber color code
modul cassette TIA fiber color code
MTP® adapter A „opposed keys“ „1 to 1“

PreCONNECT® SEDECIM application case point-to-point:

SINGLEMODE

- **800GBASE-DR8/PSM8 MPO16-MPO16**

PreCONNECT® SEDECIM breakout trunk

800GBASE-DR8/PSM8 MPO16 Transceiver

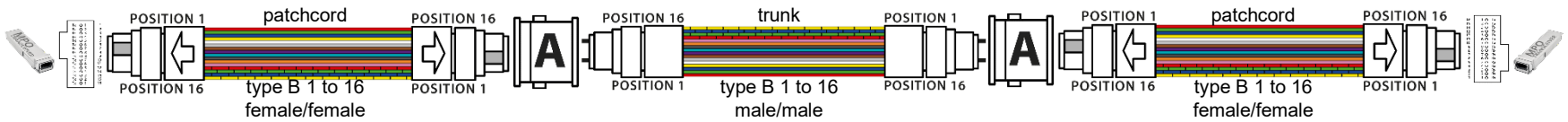
PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

800GBASE-DR8/PSM8 MPO16 Transceiver

PreCONNECT® SEDECIM Patchcords

PreCONNECT® SEDECIM Patchcords

channel lengths see behind in this product information



Patchcord and trunk IEC fiber color code / MTP® adapter A „opposed keys“ „1 to 1“

PreCONNECT® SEDECIM application case port breakout with MTP® harness:

SINGLEMODE

- **800GBASE-DR8/PSM MPO16 to 8x 100G LC-Duplex**

800GBASE-DR8/PSM8 MPO16 Transceiver

PreCONNECT® SEDECIM breakout trunk

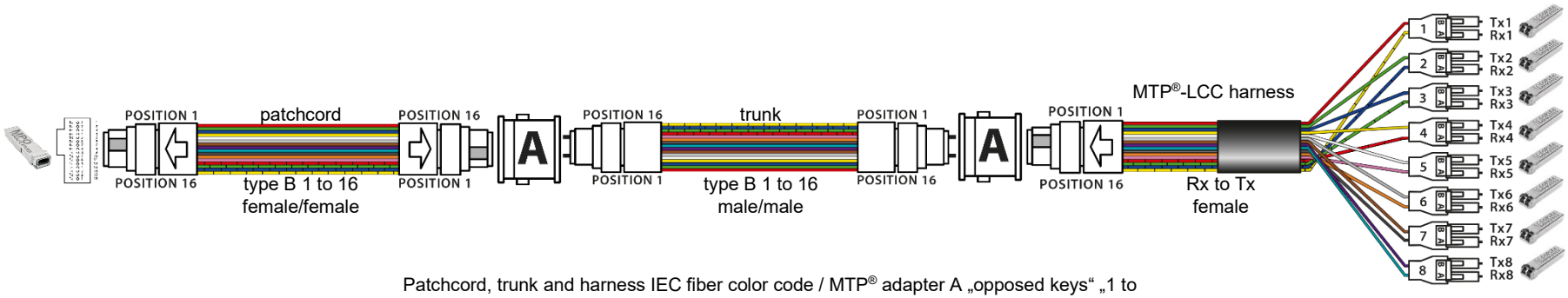
100G LC-Duplex Transceiver

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

PreCONNECT® SEDECIM Patchcords

PreCONNECT® SEDECIM MTP®-LCC Harness

channel lengths see behind in this product information



Patchcord, trunk and harness IEC fiber color code / MTP® adapter A „opposed keys“ „1 to

PreCONNECT® SEDECIM application case port breakout with MTP® module cassette:

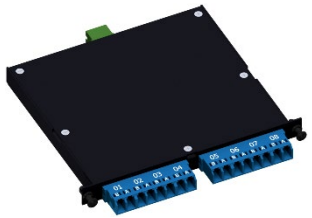
SINGLEMODE

- **800GBASE-DR8/PSM MPO16 to 8x 100G LC-Duplex**

800GBASE-DR8/PSM8 MPO16 Transceiver

PreCONNECT® SEDECIM breakout trunk

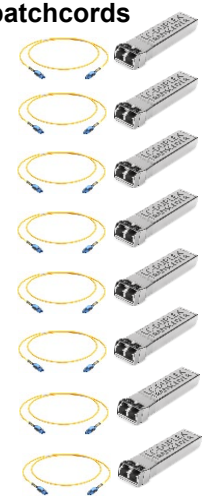
PreCONNECT® SMAP-G2 HD 19“ panel system 3/3 width partition equipped with 1/3 MTP® part front plates and module cassettes



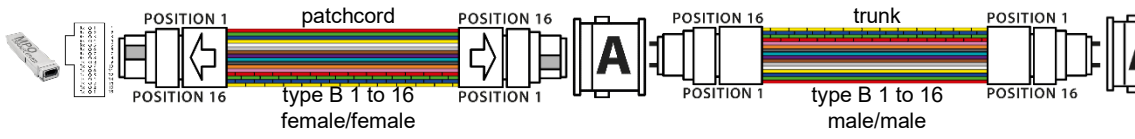
PreCONNECT® SEDECIM Patchcords

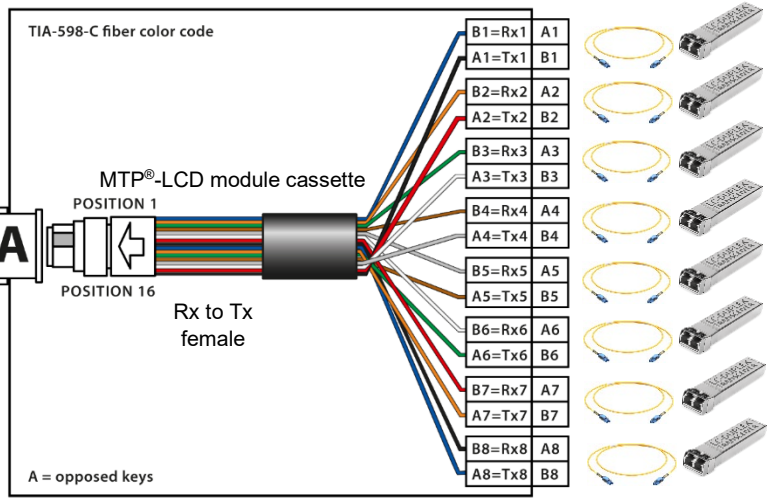
100G LC-Duplex Transceiver

LCC-PPB patchcords



channel lengths see behind in this product information





patchcord and trunk IEC fiber color code
modul cassette TIA fiber color code
MTP® adapter A „opposed keys“ „1 to 1“

PreCONNECT® SEDECIM OM4 breakout trunk:

MULTIMODE

- Breakout cable n x 16 OM4 fibers FRNC-LSZH
- MTP® 16 MM, APC 8°, male, Elite quality
- Polarity TIA method B “1 to 16”
- MTP® leg-length = standard stepped

MTP® 16 MM APC 8°

male (with pins)

Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT® square interfaces.
- Possible order-lengths: From 5 to 2000 meter

Part numbers, length variable:

Number of SEDECIM channels	Part numbers	Cable structure	Number of fibers	Cable CPR class
1	**037A2100OM4**	**1 x 16**	**16**	**B2ca**
2	**037A2101OM4**	**2 x 16**	**32**	**Cca**
3	**037A2102OM4**	**3 x 16**	**48**	**Cca**
6	**037A2103OM4**	**6 x 16**	**96**	**Cca**
9	**037A2104OM4**	**9 x 16**	**144**	**Cca**
Technical data of connectors, fibers and cables on request via the product profile of your selected trunks.				

Length tolerance:

Trunk length	Tolerance
<= 10m	+/- 50cm
> 10m <= 30m	+/- 100cm
> 30m <= 100m	+/- 150cm
> 100m	+/- 2%

Connector leg lengths:

Number of SEDECIM channels	Leg lengths [cm]
1	79
2	79 to 87 stepped
3	79 to 95 stepped
6	79 to 95 stepped
9	79
Production tolerance – 7 cm	

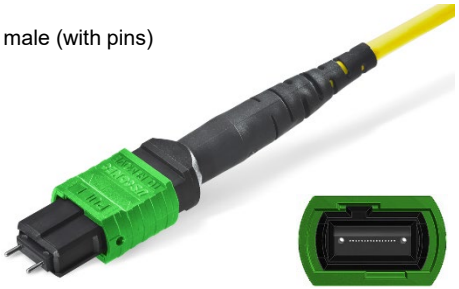
PreCONNECT® SEDECIM SM breakout trunk:

SINGLEMODE

- Breakout cable n x 16 SM fibers FRNC-LSZH
- MTP® 16 SM, male, Standard quality
- Polarity TIA method B “1 to 16”
- MTP® leg-length = standard stepped

MTP® 16 SM

male (with pins)



Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT® square interfaces.
- Possible order-lengths: From 5 to 2000 meter

Part numbers, length variable:

Number of SEDECIM channels	Part numbers	Cable structure	Number of fibers	Cable CPR class
1	**037A2101G657A1**	**1 x 16**	**16**	**B2ca**
2	**on request**	**2 x 16**	**32**	**Cca**
3	**on request**	**3 x 16**	**48**	**Cca**
6	**on request**	**6 x 16**	**96**	**Cca**
9	**on request**	**9 x 16**	**144**	**Cca**
Technical data of connectors, fibers and cables on request via the product profile of your selected trunks.				

Length tolerance:

Trunk length	Tolerance
<= 10m	+/- 50cm
> 10m <= 30m	+/- 100cm
> 30m <= 100m	+/- 150cm
> 100m	+/- 2%

Connector leg lengths:

Number of SEDECIM channels	Leg lengths [cm]
1	79
2	79 to 87 stepped
3	79 to 95 stepped
6	79 to 95 stepped
9	79
Production tolerance – 7 cm	

PreCONNECT® SMAP-G2 High Density (HD) 19” panel system:

Port density:
- 72 LC-Duplex or MTP® ports or 144 MDC ports per HU

Dimensions:
- Width: 19“
- Height: 1 HU
- Depth: 200 mm and 300 mm, see product information SMAP-G2 HD

Part numbers:

SMAP-G2 HD empty distribution panels, RAL9005 black, back plane with 12 PreCONNECT® square interfaces:

- 1 HU, 3/3 width partition, depth 300 mm: 171H0015
- 1 HU, 6/6 width partition, depth 300 mm: 171H0013

Find panels with other back plane configurations and further information in our product information SMAP-G2 HD.

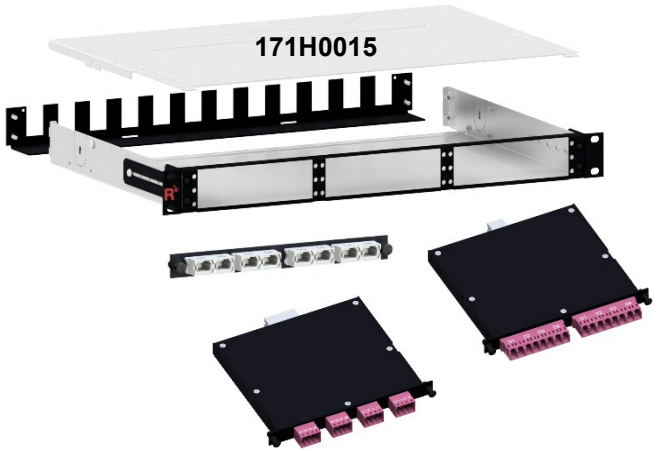
SMAP-G2 HD panels are not appropriate for PURE trunks.

LC-COMPACT Push-Pull-Boot (LCC-PPB) and MDC patchcords with cable diameter 2.0 mm or thinner must be used with this panel system, to be found behind in this product information.

LCC-PPB

MDC

171H0015



1HU front granularity 3/3 width partition

1	4	7
2	5	8
3	6	9

171H0013

1HU front granularity 6/6 width partition

1	4	7	10	13	16
2	5	8	11	14	17
3	6	9	12	15	18

SMAP-G2 HD 1/3 HU 1/3 part front plates with matrix numbering:

Part numbers RAL9005 black		
	1/3 HU 1/3 Blind PFP	**170H0003**
PFP-Typ	**Number and type of ports**	
1/3 HU 1/3	**8 x MTP® 16 MM APC 8° type A „opposed key“, white**	**170H2201**
1/3 HU 1/3	**8 x MTP® 16 SM APC 8° type A „opposed key“, green**	**170H2204**
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 HD.		

1/3 HU 1/3 PFP 8 MTP® 16 MM APC 8° (4 MTPD)

1/3 HU 1/3 Blind PFP

1/3 HU 1/3 PFP 8 MTP® 16 SM APC 8° (4 MTPD)

SMAP-G2 HD 1/3 HU 1/6 part front plates with matrix numbering:

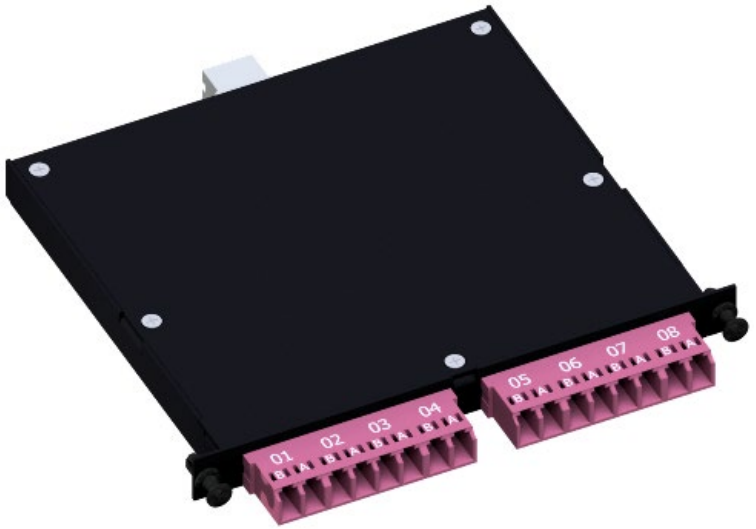
Part numbers RAL9005 black		
	1/3 HU 1/6 Blind PFP	**170H0002**
PFP-Typ	**Number and type of ports**	
1/3 HU 1/6	**4 x MTP® 16 MM APC 8° type A „opposed key“, white**	**170H2105**
1/3 HU 1/6	**4 x MTP® 16 SM APC 8° type A „opposed key“, green**	**170H2106**
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 HD.		

1/3 HU 1/6 PFP 4 MTP® 16 MM APC 8° (2 MTPD)

1/3 HU 1/6 Blind PFP

1/3 HU 1/6 PFP 4 MTP® 16 SM APC 8° (2 MTPD)

SMAP-G2 HD 16 fiber MTP®-LC module cassettes fitting for PreCONNECT® SEDECIM trunks

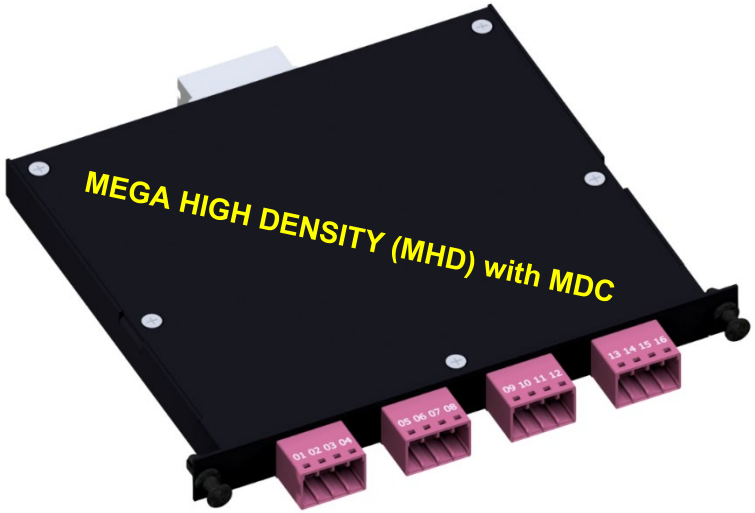


Properties:

- For Port-Breakout of PreCONNECT® SEDECIM trunks with MTP® connectors
- Fitting in SMAP-G2 HD panel with 3/3 width partition
- Height: 1/3 HU
- Width: 1/3
- Depth: 115 mm
- Polarity: Rx to Tx
- 1 port SEDECIM MTP® 16F female at the rear side:
  - OM4: Elite quality, APC 8°, adapter type A „opposed key" white
  - SM: Elite quality, APC 8°, adapter type A „opposed key" green
- 8 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 and front: aluminum powder coated RAL9005 black

Part numbers RAL9005 black			
Number of 16F SEDECIM MTP® female ports at rear side	**Number of LC-Duplex ports at front side**	**OM4**	**SM LC-PC 0°**
1	**1 SEDECIM group = 8**	**170H1200OM4**	**170H1202**
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 HD.			

SMAP-G2 HD 32 fiber MTP®-MDC module cassettes fitting for PreCONNECT® SEDECIM trunks



Properties:

- For Port-Breakout of PreCONNECT® SEDECIM trunks with MTP® connectors
- Fitting in SMAP-G2 HD panel with 3/3 width partition
- Height: 1/3 HU
- Width: 1/3
- Depth: 115 mm
- Polarity: Rx to Tx
- 2 port SEDECIM MTP® 16F female at the rear side:
  - OM4: Elite quality, APC 8°, adapter type A „opposed key" white
  - SM: Elite quality, APC 8°, adapter type A „opposed key" green
- 16 MDC 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 and front: aluminum powder coated RAL9005 black

Part numbers RAL9005 black			
Number of 16F SEDECIM MTP® female ports at rear side	**Number of MDC ports at front side**	**OM4**	**SM MDC-PC 0°**
2	**2 SEDECIM groups = 16**	**170H1201OM4**	**170H1203**
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 HD.			

SMAP-G2 HD 16 fiber MTP®-MDC module cassettes fitting for PreCONNECT® SEDECIM trunks:

Properties:

- For Port-Breakout of PreCONNECT® SEDECIM trunks with MTP® connectors
- Fitting in SMAP-G2 HD panel with 6/6 width partition
- Height: 1/3 HU
- Width: 1/6
- Depth: 115 mm
- Polarity: Rx to Tx
- 1 port SEDECIM MTP® 16F female at the rear side:
  - OM4: Elite quality, APC 8°, adapter type A „opposed key" white
  - SM: Elite quality, APC 8°, adapter type A „opposed key" green
- 8 MDC 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 and front: aluminum powder coated RAL9005 black

Part numbers RAL9005 black			
Number of 16F SEDECIM MTP® female ports at rear side	**Number of MDC ports at front side**	**OM4**	**SM MDC-PC 0°**
1	**1 SEDECIM group = 8**	**170H4104OM4**	**170H4105**
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 HD.			

SMAP-G2 HD 16 fiber MTP®-LC Port-Breakout-Unit

For port-breakout of a MPO16 transceiver to 8 LC-Duplex transceivers, without polarity, pin or debris trouble at unit pack plane, lowest attenuation:

Multimode applications:
- 800GBASE-SR8 MPO16 to 8x 100GBASE-SR/SW LC-Duplex

Singlemode applications:
- 800GBASE-DR8/PSM8 MPO16 to 8x 100GBASE-LR LC Duplex

Part number:

- Multimode OM4 with MTP16 female APC 8°: 170H8100OM4
- Multimode OM4 with MTP16 female PC 0°: On request
- Singlemode: 170H8101G657A1

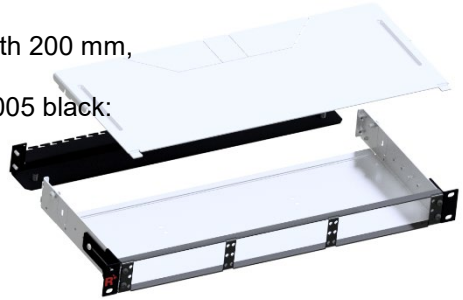
Properties:

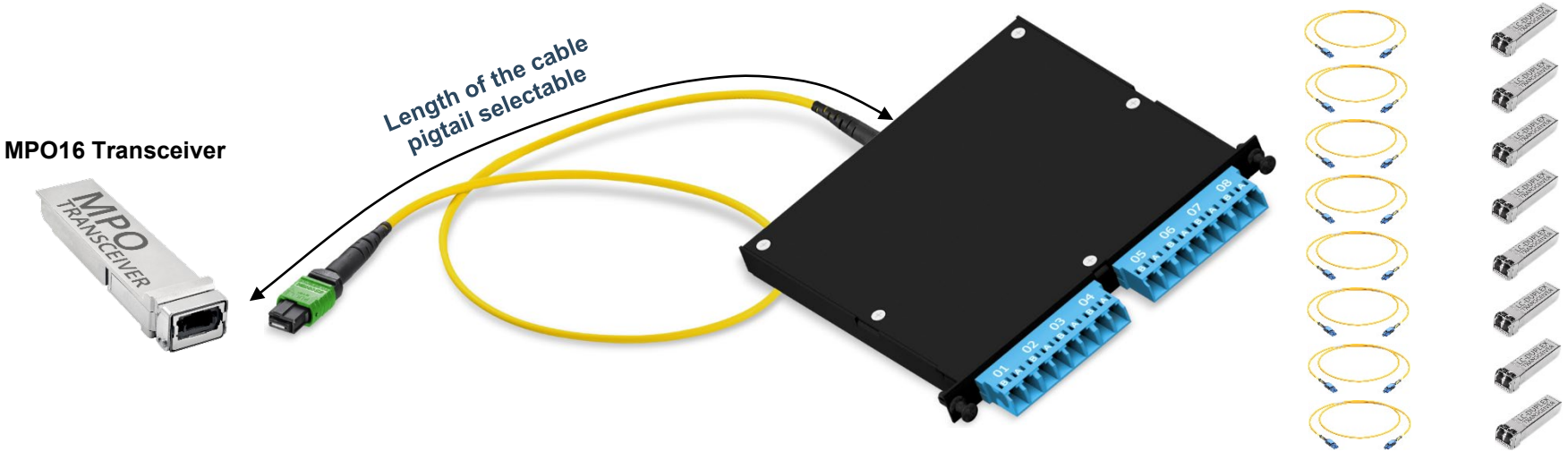
- Fitting in SMAP-G2 HD panel with 3/3 width partition
- Height: 1/3 HU
- Width: 1/3
- Depth: 115 mm
- Polarity: Rx to Tx
- 1x MTP®16 SEDECIM female connector at cable pigtail
- 8 LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners
- Material and colour cassette body and front: aluminum powder coated RAL9005 black

Recommended empty panel:

SMAP-G2 HD 1 HU, 3/3 width partition, depth 200 mm,
capacity: 3x3=9 Port-Breakout-Units,
with universal back plane 170A1507, RAL9005 black:

Part number: 171H0034





PreCONNECT® SMAP-G2 Ultra High Density (UHD) 19” panel system:

Port density:
- 96 LC-Duplex or 48 MTP® ports per HU

Dimensions:
- Width: 19“
- Height: 1 HU
- Depth: 200 mm and 300 mm, see product information SMAP-G2 UHD

Part numbers:

SMAP-G2 UHD empty distribution panels, RAL9005 black, back plane with 16 PreCONNECT® square interfaces:

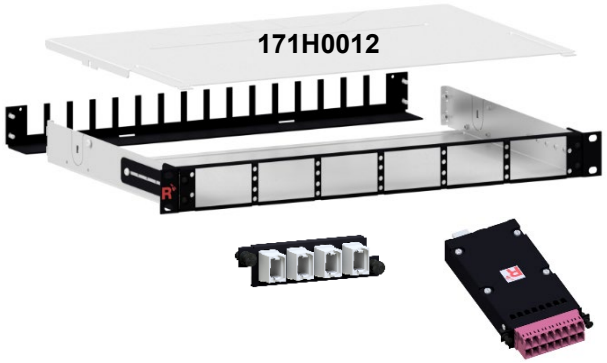
- 1 HU, 6/6 width partition, depth 300 mm: 171H0012

Find panels with other back plane configurations and further information in our product information SMAP-G2 UHD.

SMAP-G2 UHD panels are not appropriate for PURE trunks.

LC-COMPACT Push-Pull-Boot (LCC-PPB) patchcords with cable diameter 2.0 mm or thinner must be used with this panel system, to be found behind in this product information.

171H0012



1HU front granularity 6/6 width partition

1	3	5	7	9	11
2	4	6	8	10	12

SMAP-G2 UHD 1/2 HU 1/6 part front plates:

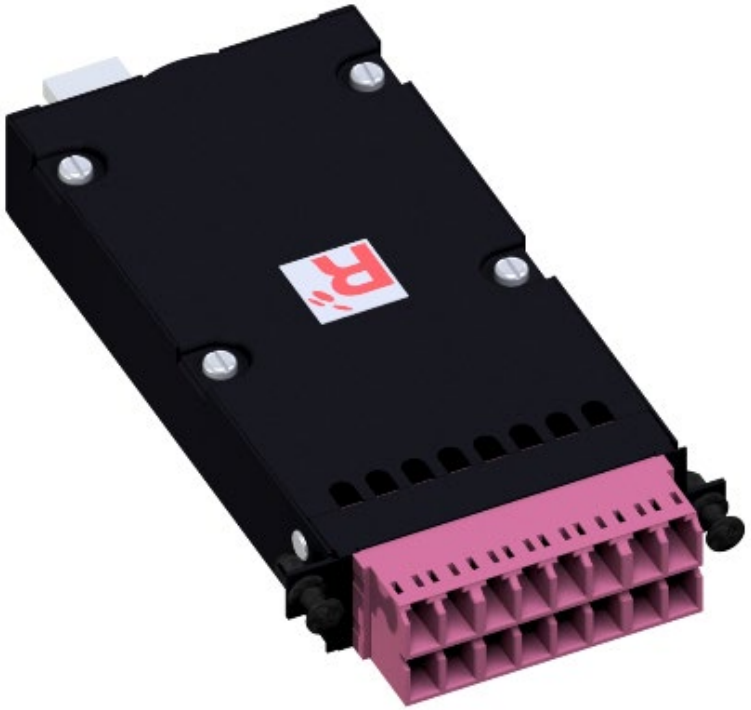
Part numbers RAL9005 black		
	1/2 HU 1/6 Blind PFP	**170H3002**
PFP-Typ	**Number and type of ports**	
1/2 HU 1/6	**4 x MTP® 16 MM APC 8° type A „opposed key“, white**	**170H6105**
1/2 HU 1/6	**4 x MTP® 16 SM APC 8° type A „opposed key“, green**	**170H6106**
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 UHD.		

1/2 HU 1/6 PFP 4 MTP® 16 MM APC 8°

1/2 HU 1/6 Blind PFP

1/2 HU 1/6 PFP 4 MTP® 16 SM APC 8°

SMAP-G2 UHD 16 fiber MTP®-LC module cassettes fitting for PreCONNECT® SEDECIM trunks



Properties:

- For Port-Breakout of PreCONNECT® SEDECIM trunks with MTP® connectors
- Fitting in SMAP-G2 UHD panel with 6/6 width partition
- Height: 1/2 HU
- Width: 1/6
- Depth: 115 mm
- Polarity: Rx to Tx
- 1 port SEDECIM MTP® 16F female at the rear side:
  - OM4: Elite quality, APC 8°, adapter type A „opposed key" white
  - SM: Elite quality, APC 8°, adapter type A „opposed key" green
- 8 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 and front: aluminum powder coated RAL9005 black

Part numbers RAL9005 black			
Number of 16F SEDECIM MTP® female ports at rear side	**Number of LC-Duplex ports at front side**	**OM4**	**SM LC-PC 0°**
1	**1 SEDECIM group = 8**	**170H4101OM4**	**170H4102**
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 UHD.			

SMAP-G2 PURE
19“ distribution panels empty:

Part numbers RAL9005 black, 300mm depth	
1 HU	171A0001P
2 HU	172A0001P
3 HU	173A0001P
5 HU	175A0001P

PreCONNECT® PURE MTP®

Adapter interface
at trunk connector legs

Standard back plane configuration for
max. 12 Trunk cable dividers per panel

SMAP-G2 PURE part-front-plates PFP

1 HU 1/4 PFP for 6 and 8 MTP® adapter interfaces

1 HU 1/2 PFP for 12 MTP® 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 without adapters**
1/4 Blind-PFP	**170A0001P**
1/2 Blind-PFP	**170A0002P**
1/4 / 6 MTP®	**170A0630P**
1/4 / 8 MTP®	**170A0140P**
1/2 / 12 MTP®	**170A0670P**

PreCONNECT® SEDECIM OM4 patchcords:

MULTIMODE

400GBASE-SR8 transceiver can either have a MTP® 16 MM PC 0° Media Dependent Interface (MDI), or a MTP® 16 MM APC 8°!

To attach 400GBASE-SR8 transceivers with MTP® 16 MM PC 0° MDI to PreCONNECT® SEDECIM trunks, hybride patchcords with MTP® 16 MM female PC 0° at the transceiver side and MTP® 16 MM female APC 8° at the trunk side must be applied.

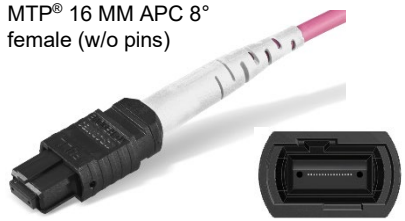
To attach 400GBASE-SR8 transceivers with MTP® 16 MM APC 8° MDI to PreCONNECT® SEDECIM trunks, patchcords with MTP® 16 MM female APC 8° at both sides must be applied.

Single jacket cable 16 OM4 fibers, diameter 3.0 mm, FRNC-LSZH, polarity TIA method B „1 to 16“

Part numbers, length variable:

MTP® 16 MM female version side A / B	Part numbers
APC 8° Elite / APC 8° Elite	080A1145OM4
APC 8° Elite / PC 0° Elite	080A1146OM4
PC 0° Elite / PC 0° Elite	080A1142OM4

MTP® 16 MM APC 8° female (w/o pins)



MTP® 16 MM PC 0° female (w/o pins)

Doppelmantelkabel 16 OM4 fibers, diameter 3.0/4.5 mm, FRNC-LSZH, polarity TIA method B „1 to 16“

Standard lengths of the 3.0 mm single jacket MTP®-legs = 0.5m, others on request.

Part numbers, length variable:

MTP® 16 MM female version side A / B	Part numbers
APC 8° Elite / APC 8° Elite	080A1147OM4
APC 8° Elite / PC 0° Elite	080A1148OM4
PC 0° Elite / PC 0° Elite	080A1054OM4

PreCONNECT® SEDECIM OM4 patchcords are suitable for 400GBASE-SR8 MPO16 transceiver-transceiver direct-attach.
! Verify the transceiver MDI version, whether MTP® 16 MM with APC 8°or PC 0°is required.

Cordon de brassage PreCONNECT® OCTO OS2 :

SINGLEMODE

Non surgainé :

Câble non surgainé 16 fibres OS2/ FRNC-LS0H, diamètre 3,0 mm
MTP® 16, SM, femelle, la qualité Standard
Polarité : TIA méthode B « 1 vers 16 »

Références, longueur variable : 080A2105G657A1

Surgainé :

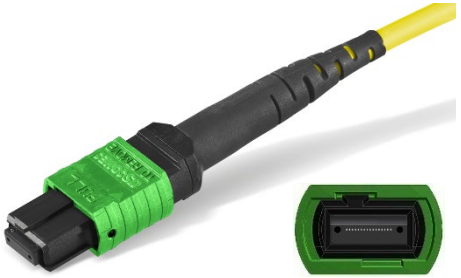
Câble surgainé 16 fibres OS2 FRNC-LS0H, diamètre 3,0 / 4,5 mm
MTP® 16, SM, femelle, la qualité Standard
Polarité : TIA méthode B « 1 vers 16 »

Longueur standard des legs MTP® non surgainés = 0,5 m,
autres longueurs sur demande

Références, longueur variable : 080A2106G657A1

MTP® 16 SM

female (w/o pins)



PreCONNECT® SEDECIM OM4 patchcords are suitable for 800GBASE-DR8/PSM8 MPO16 transceiver-transceiver direct-attach.

PreCONNECT® SEDECIM OM4 MTP®-LCC Harness:

MULTIMODE

To cennect a SR8 MPO16 Transceiver with 8 LC-Duplex Transceivers and for Port-Breakout of SEDECIM Trunks:

- **400GBASE-SR8 MPO16 to 8x 50GBASE-SR/SW LC-Duplex**

400GBASE-SR8 transceiver can either have a MTP® 16 MM PC 0° Media Dependent Interface (MDI), or a MTP® 16 MM APC 8° !

For Port-Breakout of PreCONNECT® SEDECIM trunks a harness with MTP® 16 MM female APC 8° must be applied.

Properties:

- Double jacket cable 16 OM4 fibers, diameter 3.0/4.5 mm, FRNC-LSZH
- MTP® 16 MM, APC 8° or PC 0°, female, Elite quality
- Polarity„Rx to Tx“
- LC-Compact leg-lengths 0.5m, legs numbered 1 to 8, other leg lengths on request
- Order length = total length

Part numbers, length variable:

MTP® 16 MM female version	Part number
PC 0° Elite	076A0176OM4
APC 8° Elite	076A0177OM4

! Verify the transceiver MDI version, whether MTP® 16 MM female with APC 8°or PC 0°is required.

400GBASE-SR8 MPO Transceiver

50GBASE-SR/SW LC-Duplex Transceiver

MTP® 16 MM APC 8° female (w/o pins)

MTP® 16 MM PC 0° female (w/o pins)

PreCONNECT® SEDECIM OM4 MTP®-MDC Harness:

MULTIMODE

To cennect a SR8 MPO16 Transceiver with MDC Transceivers and for Port-Breakout of SEDECIM Trunks:

- **400GBASE-SR8 MPO16 to 8x 50GBASE-SR/SW MDC**

400GBASE-SR8 transceiver can either have a MTP® 16 MM PC 0° Media Dependent Interface (MDI), or a MTP® 16 MM APC 8° !

For Port-Breakout of PreCONNECT® SEDECIM trunks a harness with MTP® 16 MM female APC 8° must be applied.

Properties:

- Double jacket cable 16 OM4 fibers, diameter 3.0/4.5 mm, FRNC-LSZH
- MTP® 16 MM, APC 8° or PC 0°, female, Elite quality
- Polarity„Rx to Tx“
- MDC leg-lengths 0.5m, legs numbered 1 to 8, other leg lengths on request
- Order length = total length

! Verify the transceiver MDI version, whether MTP® 16 MM female with APC 8°or PC 0°is required.

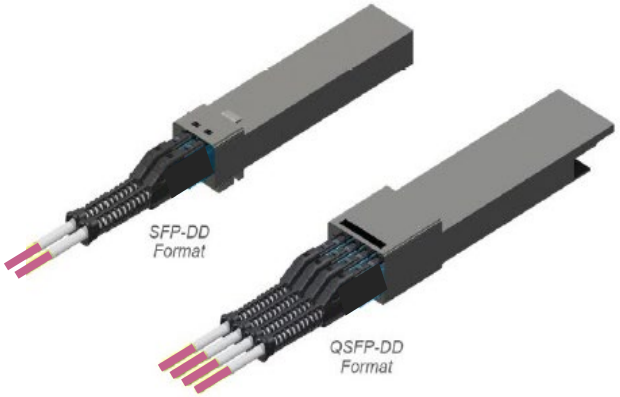
Part numbers, length variable:

MTP® 16 MM female version	Part number
PC 0° Elite	076A0189OM4
APC 8° Elite	076A0190OM4

MTP® 16 MM PC 0°
female (w/o pins)

MTP® 16 MM APC 8°
female (w/o pins)

400GBASE-SR8
MPO Transceiver



PreCONNECT® SEDECIM SM MTP®-LCC Harness:

SINGLEMODE

To cennect a DR8/PSM8 MPO16 Transceiver with 8 LC-Duplex Transceivers and for Port-Breakout of SEDECIM Trunks:

- **800GBASE-DR8/PSM8 MPO16 to 8x 100G LC-Duplex**

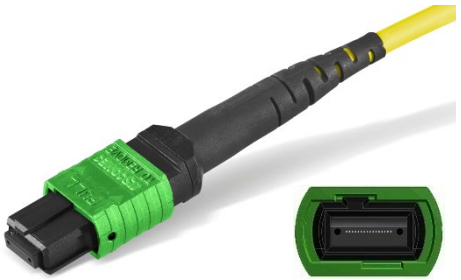
Properties:

- Double jacket cable 16 SM fibers, diameter 3.0/4.5 mm, FRNC-LSZH
- MTP® 16 SM, female, Standard quality
- Polarity„Rx to Tx“
- LC-Compact leg-lengths 0.5m, legs numbered 1 to 8, other leg lengths on request
- Order length = total length

Part numbers, length variable: 076A1130G657A1

MTP® 16 SM

female (w/o pins)



800GBASE-DR8/PSM8 MPO Transceiver

100G LC-Duplex Transceiver

PreCONNECT® SEDECIM SM MTP®-MDC Harness:

SINGLEMODE

To cennect a DR8/PSM8 MPO16 Transceiver with MDC Transceivers and for Port-Breakout of SEDECIM Trunks:

- **800GBASE-DR8/PSM8 MPO16 to 8x 100G MDC**

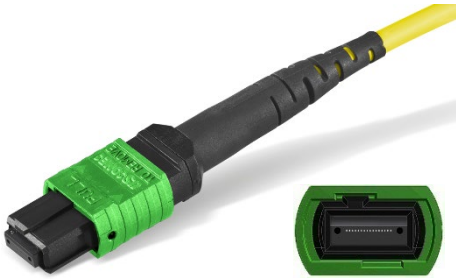
Properties:

- Double jacket cable 16 SM fibers, diameter 3.0/4.5 mm, FRNC-LSZH
- MTP® 16 SM, female, Standard quality
- Polarity„Rx to Tx“
- MDC leg-lengths 0.5m, legs numbered 1 to 8, other leg lengths on request
- Order length = total length

Part numbers, length variable: 076A1131G657A1

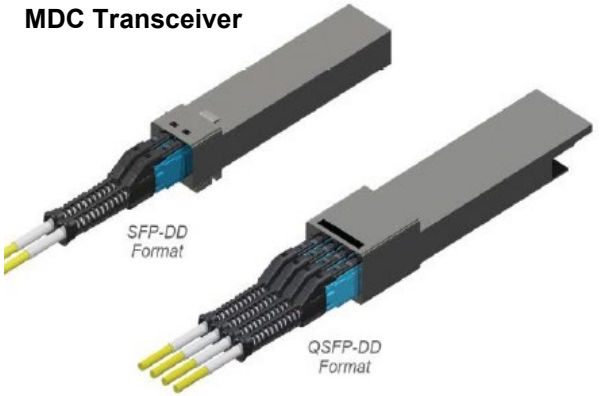
MTP® 16 SM

female (w/o pins)



800GBASE-DR8/PSM8 MPO Transceiver

MDC Transceiver



Patchcords:

Properties:

- Kink and crush resistance optimized for environmental conditions
- Operating temperature range: Climate class C „indoor, controlled environment“ acc. to IEC 60753-1, -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)

Part numbers
Duplex patchcord cable type round I-V(ZN)H and I-V(ZN)H(ZN)H FRNC-LSZH

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

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

PreCONNECT® SEDECIM 400GBASE-SR8 port-breakout to 2 x 200GBASE-SR4:

MULTIMODE

PreCONNECT® SEDECIM breakout trunk

200GBASE-SR4
MPO4+4 Transceiver

400GBASE-SR8
MPO16 Transceiver

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

PreCONNECT® SEDECIM
patchcords

PreCONNECT® SEDECIM
SR8 to 2x SR4 OCTO
migration harness
PN: 076A0185OM4

channel lengths see behind in this product information

PreCONNECT® SEDECIM both sides 40/100/200GBASE-SR4:

MULTIMODE

40/100/200GBASE-SR4
MPO4+4 Transceiver

PreCONNECT® SEDECIM breakout trunk

40/100/200GBASE-SR4
MPO4+4 Transceiver

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

PreCONNECT® SEDECIM
SR8 to 2x SR4 OCTO
migration harness
PN: 076A0185OM4

PreCONNECT® SEDECIM
SR8 to 2x SR4 OCTO
migration harness
PN: 076A0185OM4

channel lengths see behind in this product information

PreCONNECT® SEDECIM 800GBASE-DR8/PSM8 port-breakout to 2 x 400GBASE-DR4:

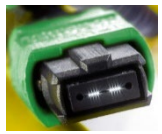
SINGLEMODE

800GBASE-DR8/PSM8
MPO16 Transceiver

PreCONNECT® SEDECIM breakout trunk

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

400GBASE-DR4
MPO4+4 Transceiver



PreCONNECT® SEDECIM
patchcords

PreCONNECT® SEDECIM
DR8/PSM8 to 2x DR4 OCTO
migration harness
PN: on request

channel lengths see behind in this product information

PreCONNECT® SEDECIM both sides 400GBASE-DR4:

SINGLEMODE

400GBASE-DR4
MPO4+4 Transceiver

PreCONNECT® SEDECIM breakout-Trunk

PreCONNECT® SMAP-G2 HD
19“ panel system
3/3 width partition equipped with
1/3 MTP® part front plates

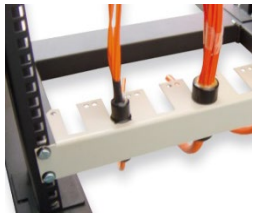
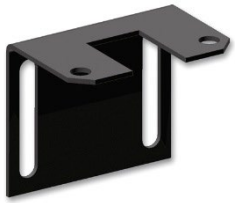
400GBASE-DR4
MPO4+4 Transceiver

PreCONNECT® SEDECIM
DR8/PSM8 to 2x DR4 OCTO
migration harness
PN: on request

PreCONNECT® SEDECIM
DR8/PSM8 to 2x DR4 OCTO
migration harness
PN: on request

channel lengths see behind in this product information

Accessories:

Description	Part number	Pictures
19” 1 HU universal trunk cable divider holder For the universal installation of multiple trunk cable dividers within 19" racks.	RAL9005 black 099A0085	
19” 1 HU single universal trunk cable divider holder For the universal installation of a single trunk cable dividers within 19" racks.	RAL9005 black 099A0065	
For 19“ panel accessories see our product information 19“ panel accessories		

Accessories:

Patch location rack:

Applications:
High density data center infrastructures
For the construction of ultra high density data center patch locations

Properties:
Innovative, restriction-free cable management system
Rack pillars with integrated cable managers to prevent interference with cable routing
The covers of the cable managers fold in both directions and are completely removable
Individually selectable feedthroughs in the sides and rear walls of the large volume cable channel for simple vertical and horizontal cable routing
Professional routing of large cable volumes from the patchfields and storage of cable overlengths in the vertical cable managers
Particularly suitable for fiber optic cables thanks to the use of cable clips (L-fingers) and finger slots:

- The rounded L-fingers ensure that the cables are extremely well protected against bending and kinking even when subject to strain.
- The L-fingers do not have any sharp edges and are extremely strong and resistant to breakage.
- Because there is plenty of space for them in the large finger slots, the cables are neither squeezed nor kinked.
- The L-fingers retain the cables in the finger slots whenever you need to work with the covers folded back or removed.

Dimensions (H x L x W): 213 (46 HU) x 90 x 90 cm
Material and color: Powder-coated steel, RAL 9005 (black)

Optional:
19” Intermediate rack for the construction of rack rows with uneven numbers of racks on request.

Delivery form:
Factory mounted on pallet (total height with pallet and packaging: 230 cm)
Including adjustable feet for on-site installation

Accessories:
Wide range of accessories such as side walls, cable guides, excess cable storage for the top of the rack are available on request

More details in our
product information “ DC-PLR“

MTP®/MPO Ethernet and Fibre Channel channel specifications

Multimode applications	Channel length max. [m]			Channel attenuation max. [dB]
	OM3	OM4	OM5	
40GBASE-SR4, 850nm, MTP®/MPO4+4 OCTO	IEEE 802.3 = 100	IEEE 802.3 = 150	IEEE 802.3 = 150	OM3 1.9 / OM4 and OM5 1.5
100GBASE-SR10, 850nm, MTP®/MPO24(20)	R-O = 140	R-O = 170	R-O = 170	
100GBASE-eSR4, 850nm, MTP®/MPO4+4 OCTO	200	300	not specified	OM3 2.3 / OM4 2.4
100GBASE-SR4, 850nm, MTP®/MPO4+4 OCTO	70	100	100	OM3 1.8 / OM4 and OM5 1.9
100GBASE-SR2, 850nm, MTP®/MPO2+2				
200GBASE-SR4, 850nm, MTP®/MPO4+4 OCTO				
400GBASE-SR16, 850nm, MTP®/MPO32				
400GBASE-SR8, 850nm, MTP®/MPO16 SEDECIM				
400GBASE-SR4.2, 850/910nm MTP®/MPO4+4 OCTO	70	100	150	OM3 1.8 / OM4 1.9 / OM5 2.0
400GBASE-SR4, 850nm MTP®/MPO4+4 OCTO	in progress	in progress	in progress	in progress
800GBASE-SR8, 850nm, MTP®/MPO16 SEDECIM	in progress	in progress	in progress	in progress
FC 4 x 8 = 128 Gbit/s, 850nm, MTP®/MPO4+4 OCTO	70	100	100	OM3 1.25 / OM4 and OM5 1.36
FC 4 x 16 = 128 Gbit/s, 850nm, MTP®/MPO4+4 OCTO				
FC 4 x 32 = 128 Gbit/s, 850nm, MTP®/MPO4+4 OCTO				
FC 4 x 64 = 256 Gbit/s, 850nm, MTP®/MPO4+4 OCTO	in progress	in progress	in progress	in progress

MTP®/MPO Ethernet and Fibre Channel channel specifications		
Singlemode applications	**Channel length max. [m]**	**Channel attenuation max. [dB]**
100G PSM4, 1310nm, MTP®/MPO4+4 OCTO	500	3.3
200GBASE-DR4, 1310nm, MTP®/MPO4+4 OCTO		3.0
400GBASE-DR4, 1310nm, MTP®/MPO4+4 OCTO		
800GBASE-DR8, 1310nm, MTP®/MPO16 SEDECIM	in progress	in progress
800GBASE-PSM8, 1310nm, MTP®/MPO16 SEDECIM	in progress	in progress

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

Rosenberger

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