

PreCONNECT® DUODECIM

PRODUCT INFORMATION



PreCONNECT® DUODECIM 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 cleanliness, 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 FO breakout and loose tube cables, FRNC-LSZH indoor cables, up to 144 fibers
- With connector system MTP® with 12 fibers per MTP® channel
- Port-breakout with MTP® module cassettes with LC front
- Four 19" panel systems SMAP-G2 SD, SMAP-G2 HD, SMAP-G2 UHD und DCP selectable
- Suitable patchcords
- Useful accessories
- Patch location rack

Features:

- For all who still have conventional transceivers for duplex applications like 10/25/50 GBE and 8/16/32 GFC on both cabling sides in foreseeable time, but want to be prepared for the migration to MPO based parallel optics applications
- Trunks and 19" panels can be further used for migration

Your benefits at a glance:

- MTP® cabling system with use of all 12 fibers per MTP® channel for duplex applications
- Cost-effective migration to MPO based parallel optics applications
- Investment protection through optimal use of the trunks for duplex applications and MPO based parallel optics 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® DUODECIM trunks



PreCONNECT® DUODECIM

combined with
PreCONNECT® OCTO



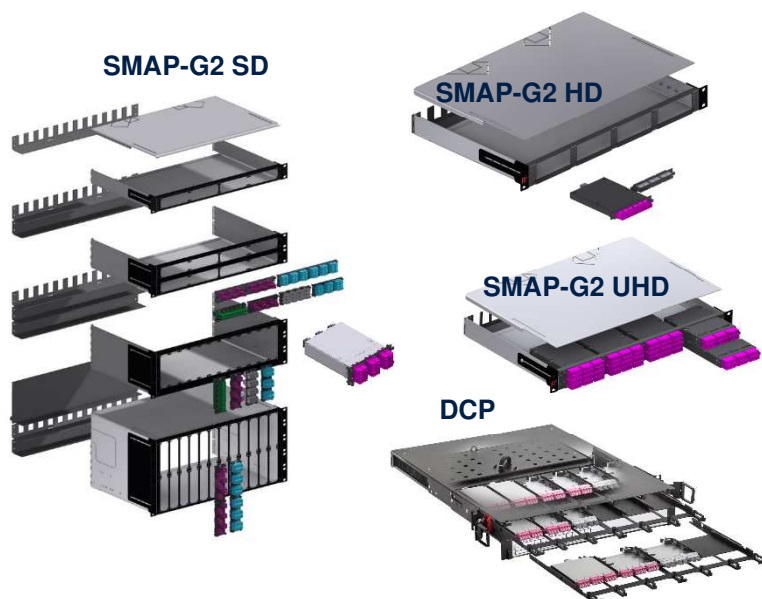
PreCONNECT® OCTO
patchcords and multijumpers



LC-COMPACT patchcords



19" panel systems



patch location rack



accessories



Application:

MTP® (MPO) based data center cabling with 12 fibers per MTP® channel:

Appropriate for duplex applications:

- 10/25/50 GBE
- 8/16/32 GFC



Simple migration to parallel optics applications:

- 40/100/200 GBASE-SR4
- 400GBASE-SR4.2 BiDi
- 4x16 und 4x32 GFC
- 400 GBASE-SR8 and SR16
- 100G PSM4
- 4x10 GBASE-LR
- 200GBASE-DR4
- 400GBASE-DR4

Properties:

PreCONNECT® DUODECIM breakout-trunks I-F(ZN)HH breakout cables:

Equipped with 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



System description:

Our PreCONNECT® DUODECIM cabling system consists of:

- DUODECIM breakout-trunk called factory assembled FO breakout cables or alternatively DOUDECIM trunk called loose tube cables, both with up to 12 MTP® 12 fiber channels (12x12=144 fibers).
 - 19" panel systems with part front plates with MTP® adapters and DUODECIM module cassettes
 - OCTO patchcords and multijumpers
 - 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 fiber count and modular „plug-and-play“ FO cabling system and already 1997 we have been the first manufacturer of MTP® cabling systems in Europe.



Properties:

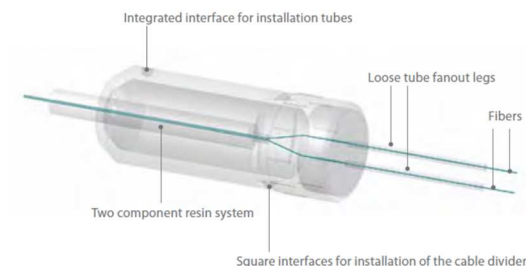
PreCONNECT® DUODECIM Trunks I-B(ZN)BH loose tube cables:

Both cable ends are molded within PreCONNECT® cable dividers and assembled with connector legs fitting for the 19" panel systems.

The PreCONNECT® cable divider is a splice-less furcation to separate the fibers of loose tube cables. He is one of the mechanically and thermally most robust cable dividers for loose tube cables at smallest diameters.

With its integrated PreCONNECT® square interface, the cable divider can be tool-less hooked into PreCONNECT® panels for tensile and torsion resistant fixing of the trunks.

The connector legs and cable dividers are equipped with 600 N tensile strength, crush resistant, kink and torsion resistant, installation tubes.



Cable types:

- PreCONNECT® DUODECIM breakout-trunks: I-F(ZN)HH n x 12 fibers breakout cables
- PreCONNECT® DUODECIM trunks: I-B(ZN)BH n x 12 fibers loose tube cables
- Cable data, see separate cable data sheets

I-F(ZN)HH n x 12 fibers breakout cables



I-B(ZN)BH n x 12 fibers loose tube cables



Properties:

Connector types:

- DUODECIM trunks: MTP® male 12 fiber
- DUODECIM module cassettes: MTP® female 12 fiber
- OCTO patchcords and multijumpers: MTP® female 4+4 fiber OCTO

Adapter types:

- MTP® multimode: TIA type B “aligned key” „1 to 12“ grey
- MTP® singlemode TIA type A “opposed key” „1 to 1“ green
- Description of the adapter types A and B see product information PreCONNECT OCTO

Polarity:

- DUODECIM trunks: TIA method B „1 to 12“
- DUODECIM module cassettes: see pages of the products
- OCTO patchcords and multijumpers: see pages of the products

Fiber types:

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

Length definition:

Order-length = length between the connectors of the longest legs at both sides, not between the PreCONNECT® square interfaces.

Delivery form:

Dependent on the length as cable ring or on cardboard or wooden drum, 100% IL factory measured with measurement protocol, product label with serial number on both sides.

MTP® female 12 fiber



MTP® female 4+4 fiber OCTO



TIA type B „aligned key“ „1 to 12“ grey



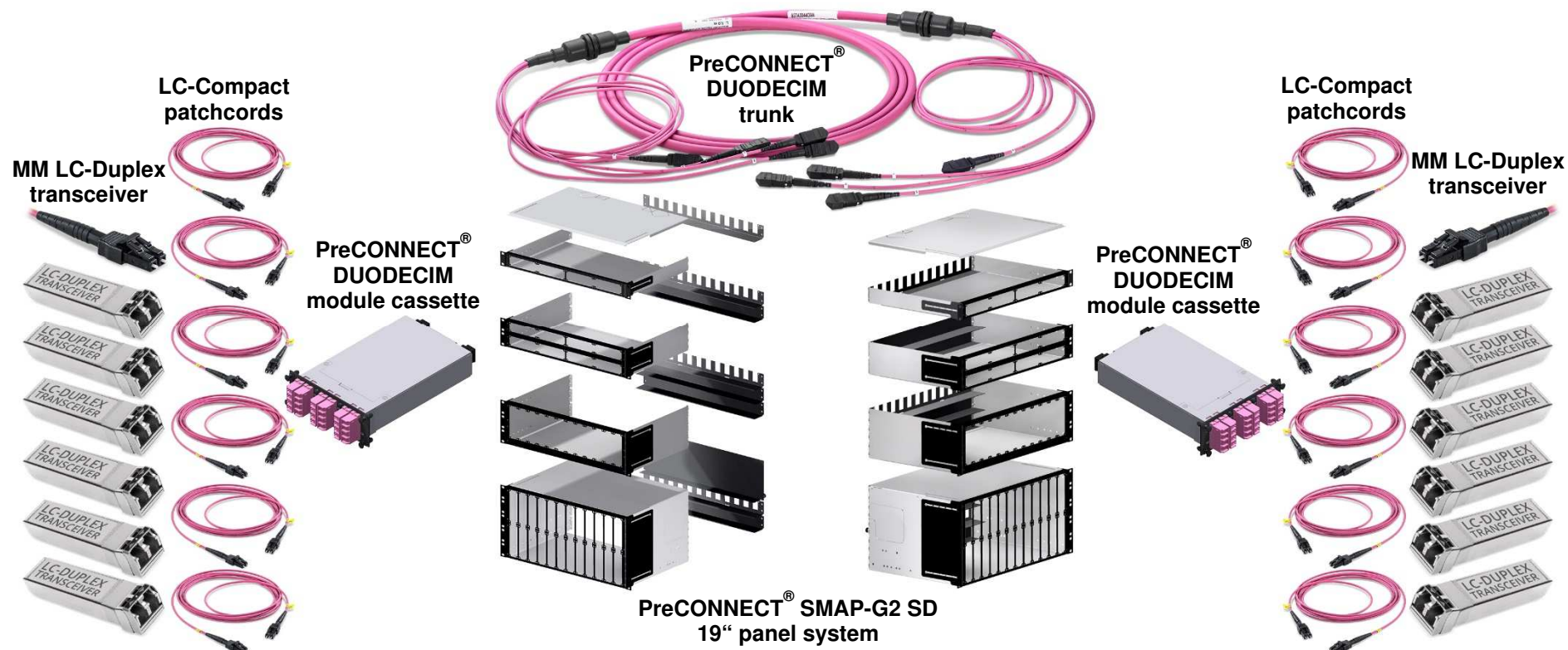
TIA type A „opposed key“ „1 to 1“ green



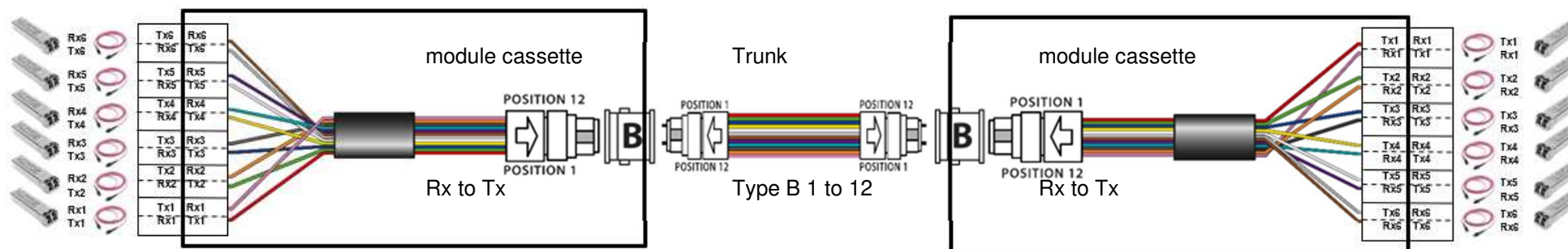
PreCONNECT® DUODECIM application case duplex application:

MULTIMODE

- 10/25/50 GBASE-SR
- 8/16/32 GFC MM



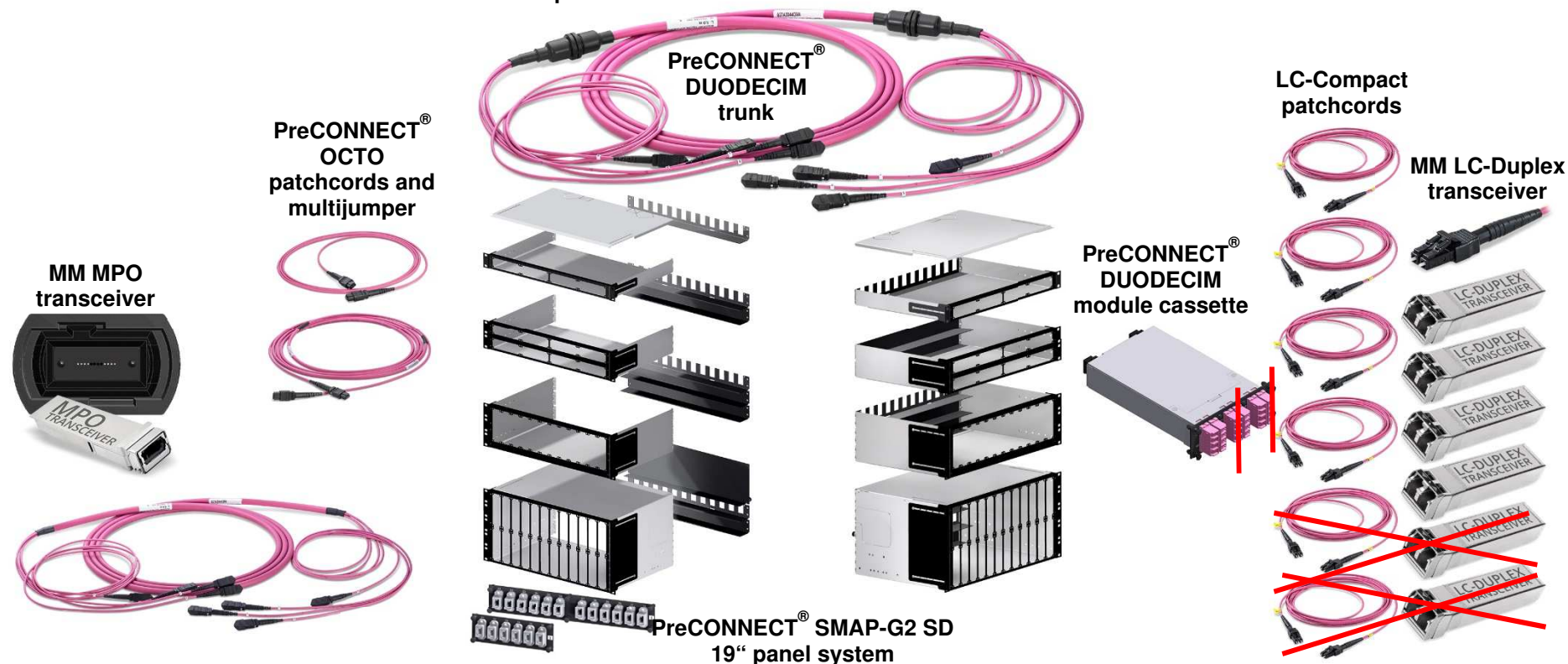
MM fiber max. channel length acc. to application and transceiver data sheet



PreCONNECT® DUODECIM migration to SR4 parallel optics Port-breakout with module cassette:

MULTIMODE

- 40 / 100 / 200 GBASE-SR4 MPO to 4x10 / 4x25 / 4x50 GBASE-SR LC-Duplex
- 4x16 / 4x32 GFC MPO to 4x16 / 4x 32 GFC LC-Duplex



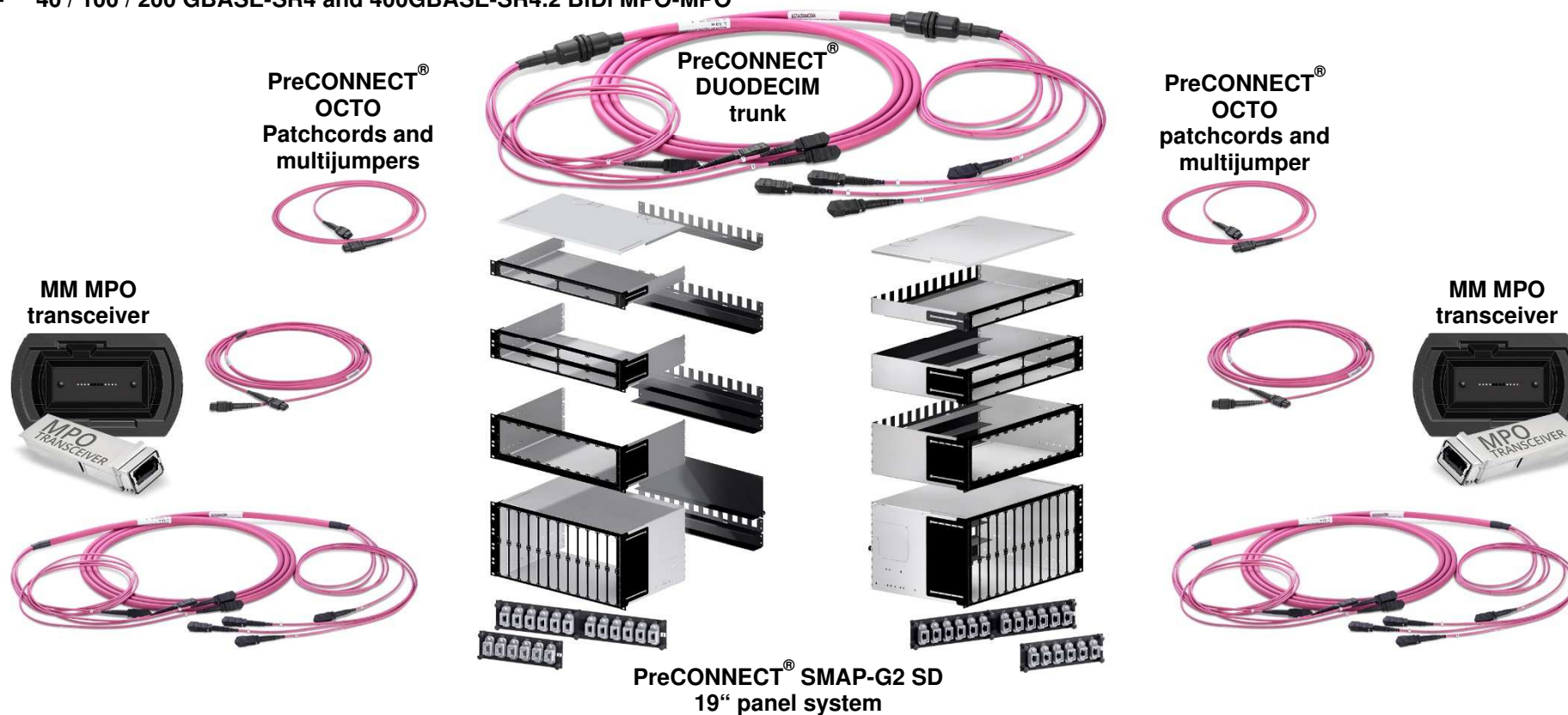
MM fiber max. channel length acc. to application and transceiver data sheet

- DUODECIM trunks can be used further, the inner four fibers of each MTP® channel are not used any longer.
- Replace DUODECIM module cassettes at the left MM MPO transceiver side by part-front-plates with MTP® adapters and replace LC-Compact patchcords by PreCONNECT® OCTO MTP® patchcords or multijumpers.
- DUODECIM module cassettes at the right duplex side can be used further, but only channel 1 to 4, channel 5 and 6 are not used any longer.
- This cabling version can be built cheaper with PreCONNECT® OCTO, because there the trunks have only 8 instead of 12 fibers per MTP® channel.

PreCONNECT® DUODECIM migration to SR4 parallel optics on both sides:

MULTIMODE

- 40 / 100 / 200 GBASE-SR4 and 400GBASE-SR4.2 BiDi MPO-MPO



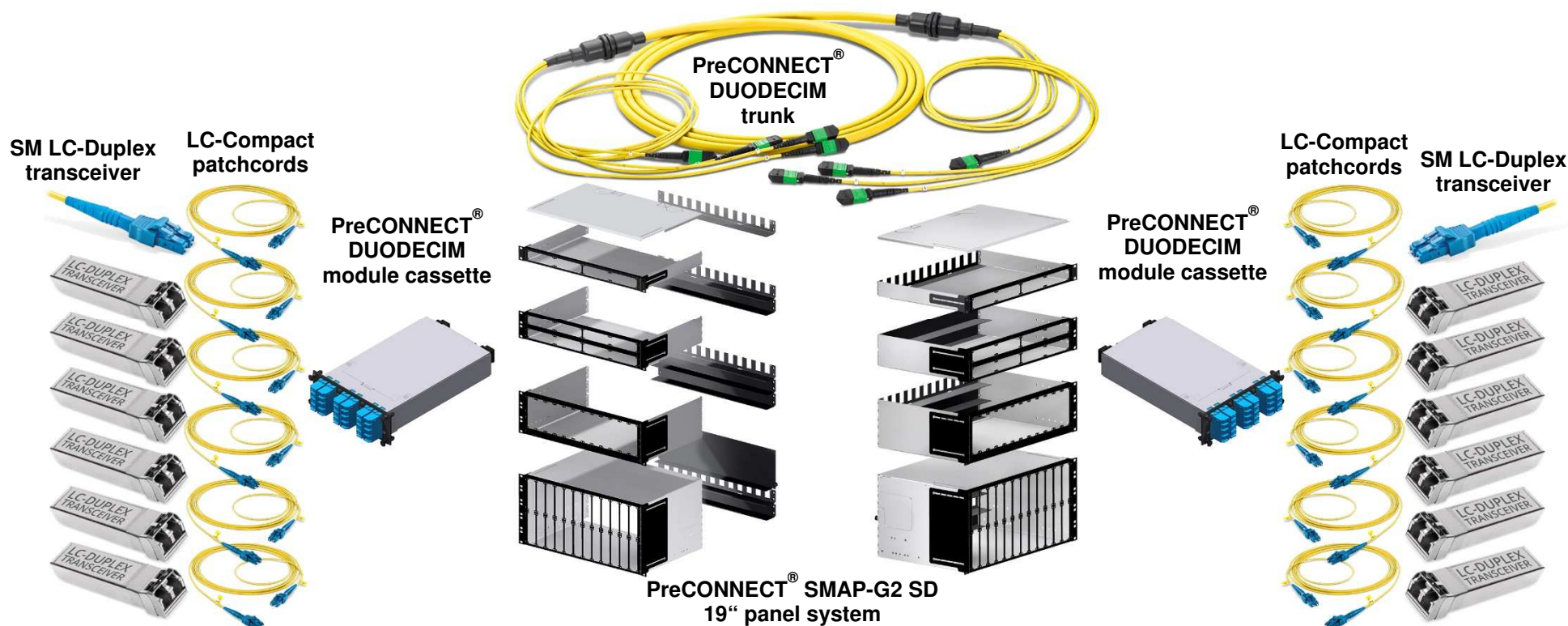
MM fiber max. channel length acc. to application and transceiver data sheet

1. DUODECIM trunks can be used further, the inner four fibers of each MTP® channel are not used any longer.
2. Replace on both sides DUODECIM module cassettes by part-front-plates with MTP® adapters and LC-Compact patchcords by PreCONNECT® OCTO MTP® patchcords or multijumpers.
3. This cabling version can be built cheaper with PreCONNECT® OCTO, because there the trunks have only 8 instead of 12 fibers per MTP® channel.

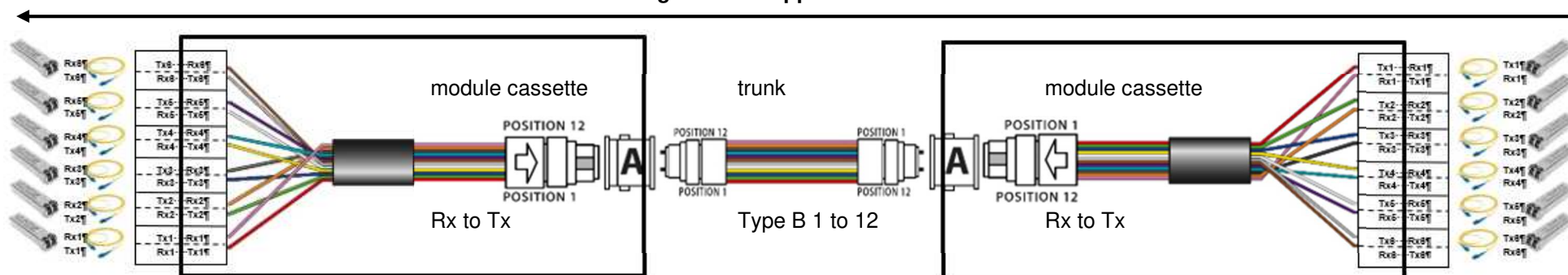
PreCONNECT® DUODECIM application case duplex application:

SINGLEMODE

- 10/25/50 GBASE-LR
- 16/32 GFC SM



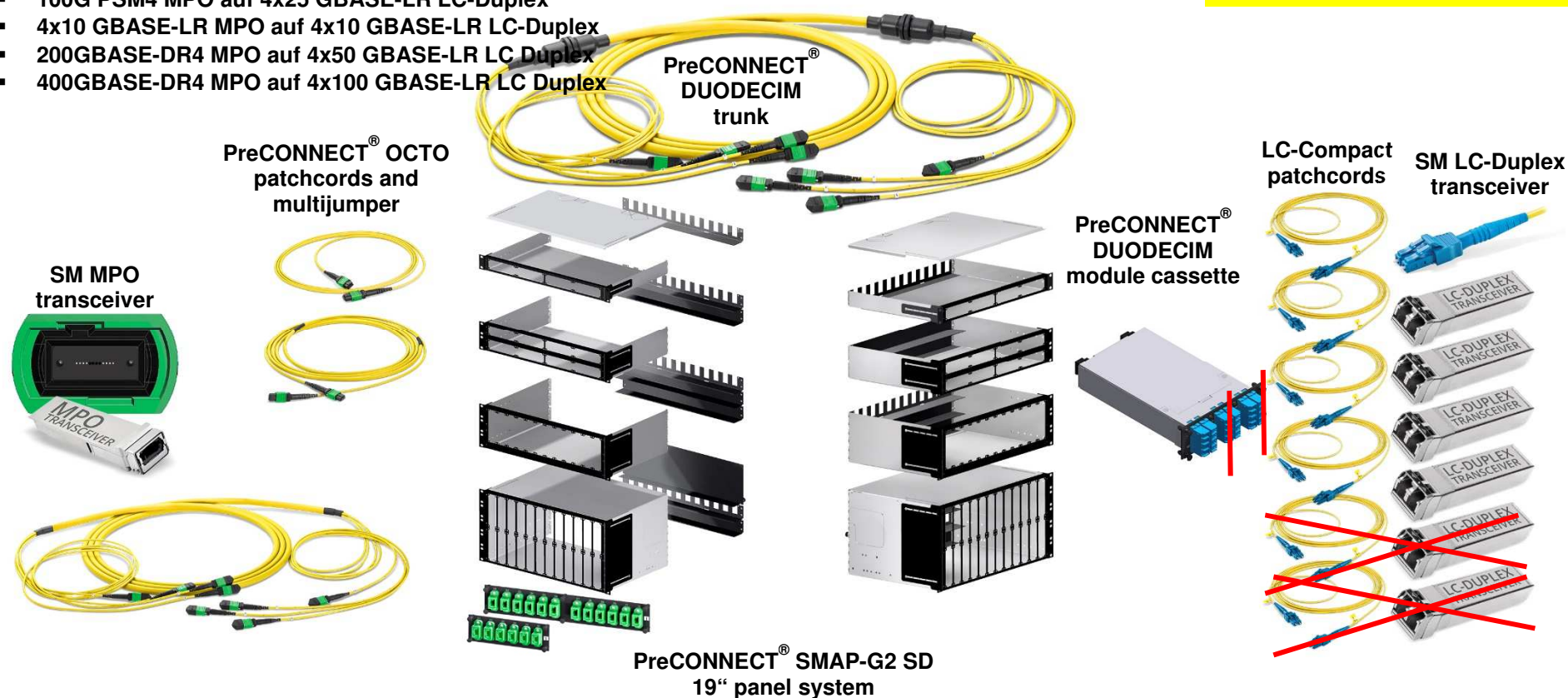
SM fiber max. channel length acc. to application and transceiver data sheet



PreCONNECT® DUODECIM migration to SM parallel optics port-breakout with module cassette:

SINGLEMODE

- 100G PSM4 MPO auf 4x25 GBASE-LR LC-Duplex
- 4x10 GBASE-LR MPO auf 4x10 GBASE-LR LC-Duplex
- 200GBASE-DR4 MPO auf 4x50 GBASE-LR LC Duplex
- 400GBASE-DR4 MPO auf 4x100 GBASE-LR LC Duplex



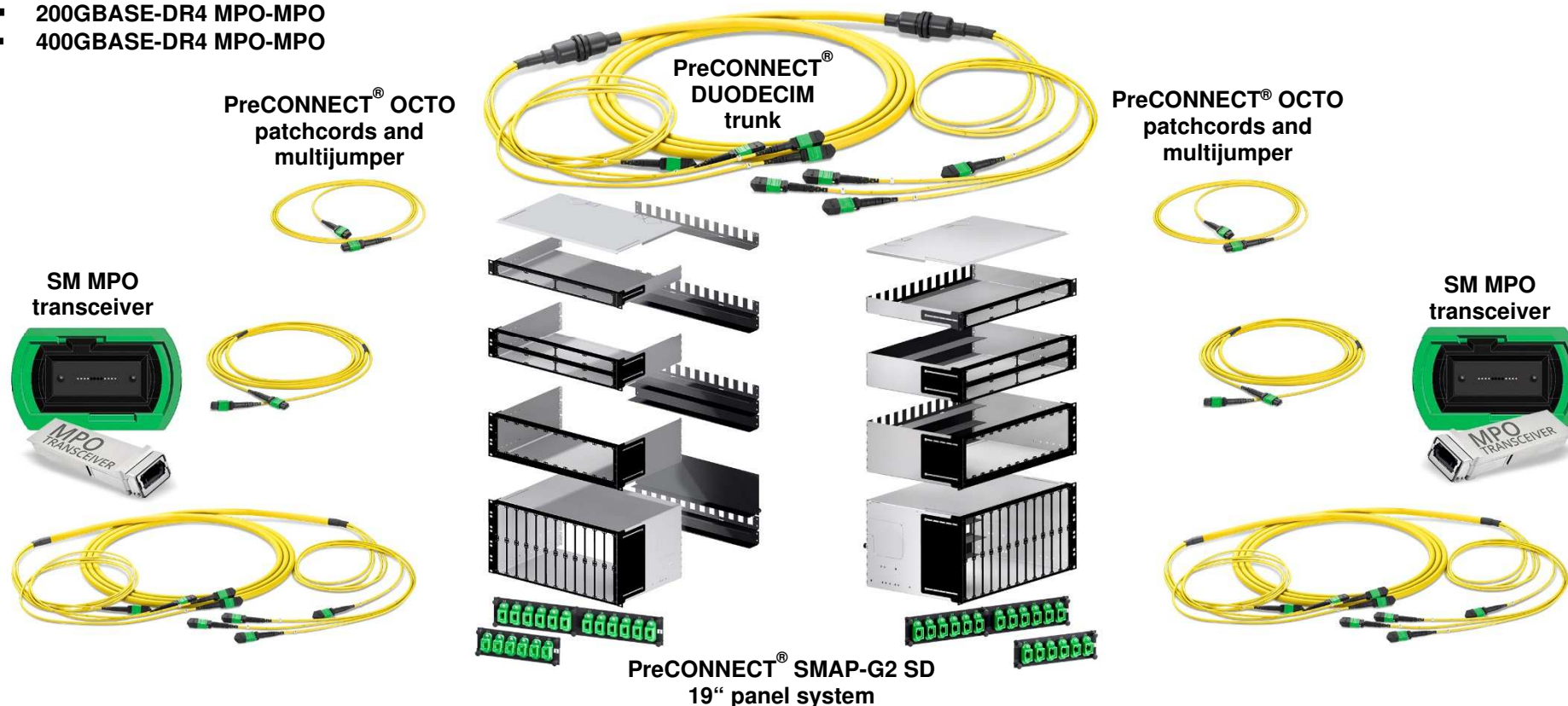
SM fiber max. channel length acc. to application and transceiver data sheet

1. DUODECIM trunks can be used further, the inner four fibers of each MTP® channel are not used any longer.
2. Replace DUODECIM module cassettes at the left SM MPO transceiver side by part-front-plates with MTP® adapters and replace LC-Compact patchcords by PreCONNECT® OCTO MTP® patchcords or multijumpers.
3. DUODECIM module cassettes at the right duplex side can be used further, but only channel 1 to 4, channel 5 and 6 are not used any longer.
4. This cabling version can be built cheaper with PreCONNECT® OCTO, because there the trunks have only 8 instead of 12 fibers per MTP® channel.

PreCONNECT® DUODECIM migration to SM parallel optics on both sides:

SINGLEMODE

- 100G PSM4 MPO-MPO
- 4x10 GBASE-LR MPO-MPO
- 200GBASE-DR4 MPO-MPO
- 400GBASE-DR4 MPO-MPO



SM fiber max. channel length acc. to application and transceiver data sheet

1. DUODECIM trunks can be used further, the inner four fibers of each MTP® channel are not used any longer.
2. Replace on both sides DUODECIM module cassettes by part-front-plates with MTP® adapters and LC-Compact patchcords by PreCONNECT® OCTO MTP® patchcords or multijumpers.
3. This cabling version can be built cheaper with PreCONNECT® OCTO, because there the trunks have only 8 instead of 12 fibers per MTP® channel.

PreCONNECT® DUODECIM OM4 breakout-trunk:

Breakout cable n x 12 OM4 fibers FRNC-LSZH
MTP® 12 male
Polarity TIA method B “1 to 12”
MTP® leg-length = standard stepped

Part numbers, length variable:

- 1 MTP® 12 channel: 037A2080OM4
- 2 MTP® 12 channels: 037A2043OM4
- 4 MTP® 12 channels: 037A2044OM4
- 8 MTP® 12 channels: 037A2045OM4
- 12 MTP® 12 channels: 037A2046OM4

Breakout cable I-F(ZN)HH n x 12			
MTP® 12 channels	Structure	Fiber count	Diameter
2	2 x 12	24	8.9 mm
4	4 x 12	48	8.9 mm
8	8 x 12	96	13.1 mm
12	12 x 12	144	16.5 mm

MULTIMODE



With PreCONNECT® square interface on both sides



PreCONNECT® DUODECIM OM4 trunk:

Loose tube cable n x 12 OM4 fibers FRNC-LSZH
MTP® 12 male
Polarity TIA method B “1 to 12”
MTP® leg-length = standard stepped

Part numbers, length variable:

4 MTP® 12 channels: 024A0157OM4

8 MTP® 12 channels: 024A0156OM4

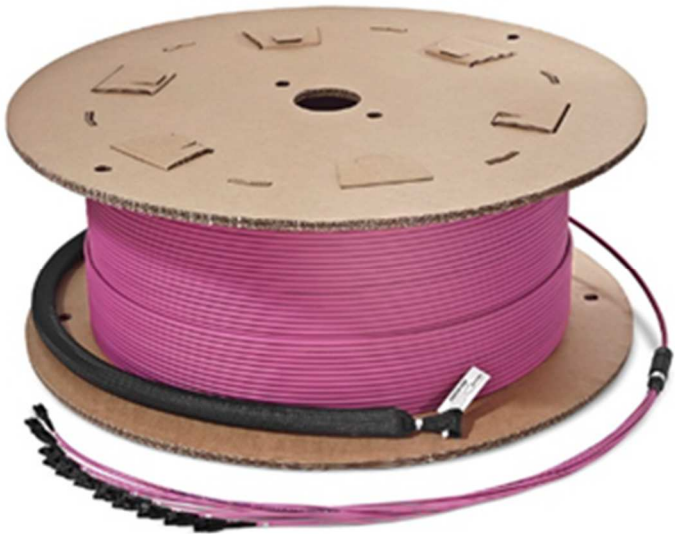
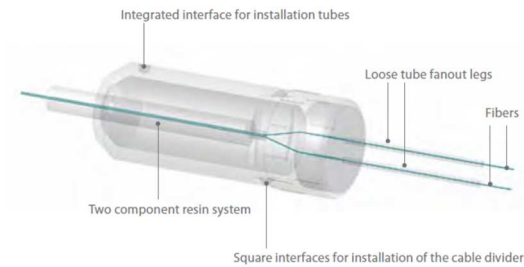
12 MTP® 12 channels: 024A0158OM4

Loose tube cable I-B(ZN)BH n x 12			
MTP® 12 channels	Structure	Fiber count	Diameter
4	4 x 12	48	8.3 mm
8	8 x 12	96	9.9 mm
12	12 x 12	144	11.4 mm

MULTIMODE



With PreCONNECT® cable divider on both sides



PreCONNECT® DUODECIM SM breakout-trunk:

SINGLEMODE

Breakout cable n x 12 SM fibers FRNC-LSZH
MTP® 12 male
Polarity TIA method B “1 to 12”
MTP® leg-length = standard stepped

Part numbers, length variable:

- 1 MTP® 12 channel: 037A2086G657A1**
- 4 MTP® 12 channels: 037A2082G657A1**
- 8 MTP® 12 channels: 037A2083G657A1**
- 12 MTP® 12 channels: 037A2084G657A1**

Breakout cable I-F(ZN)HH n x 12			
MTP® 12 channels	Structure	Fiber count	Diameter
4	4 x 12	48	8.9 mm
8	8 x 12	96	13.1 mm
12	12 x 12	144	16.5 mm



With PreCONNECT® square interface on both sides



PreCONNECT® DUODECIM SM trunk:

Loose tube cable n x 12 SM fibers FRNC-LSZH
MTP® 12 male
Polarity TIA method B “1 to 12”
MTP® leg-length = standard stepped

Part numbers, length variable:

4 MTP® 12 channels: 024A0215G657A1

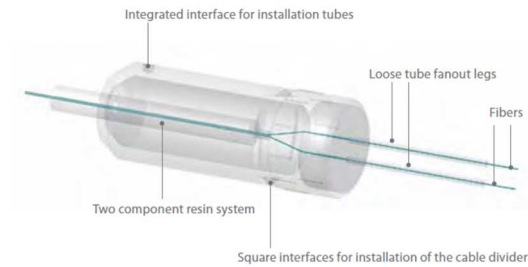
8 MTP® 12 channels: 024A0216G657A1

12 MTP® 12 channels: 024A0217G657A1

Loose tube cable I-B(ZN)BH n x 12			
MTP® 12 channels	Structure	Fiber count	Diameter
4	4 x 12	48	8.3 mm
8	8 x 12	96	9.9 mm
12	12 x 12	144	11.4 mm



With PreCONNECT® cable divider on both sides



PreCONNECT® SMAP-G2 Standard Density (SD) 19” panel system:

Port density:

- 48 LC-Duplex or MTP® ports per HU

Dimensions:

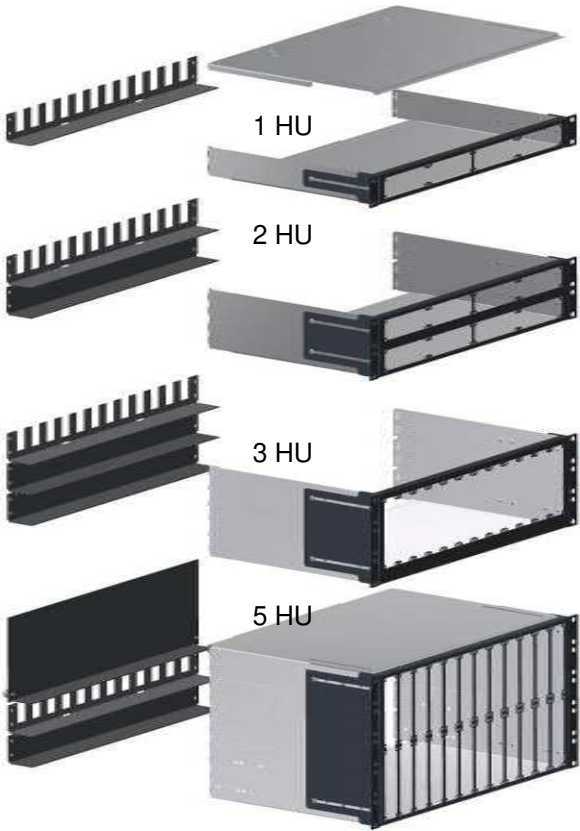
- Width: 19"
- Height: 1, 2, 3 and 5 HU
- Depth: 200 mm and 300 mm. We recommend 300 mm as shown here, because the space to accommodate trunk cable dividers and connector legs is uncomfortable narrow within 200 mm deep panels.

Part numbers:

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

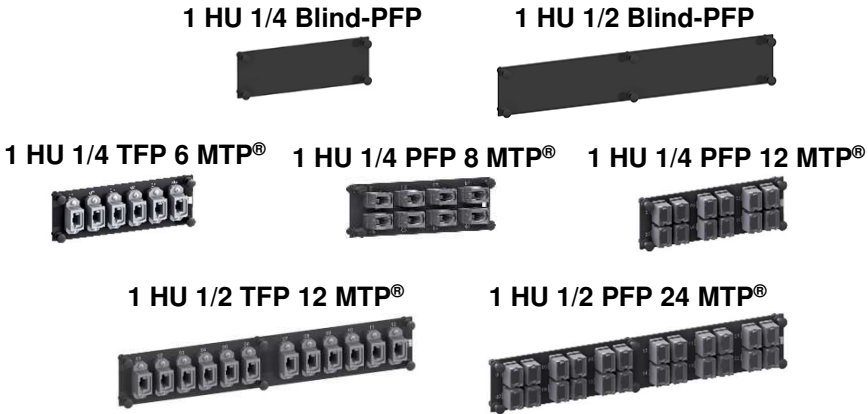
1 HU, depth 300 mm	171A0001
1 HU, depth 200 mm	171A0020
2 HU, depth 300 mm	172A0001
3 HU, depth 300 mm	173A0001
5 HU, depth 300 mm	175A0001

SMAP-G2 SD panels for PURE trunks are described behind in this document.
Find further information in our product information SMAP-G2 SD.



SMAP-G2 SD 1HU 1/4 or 1/2 part front plates with matrix numbering:

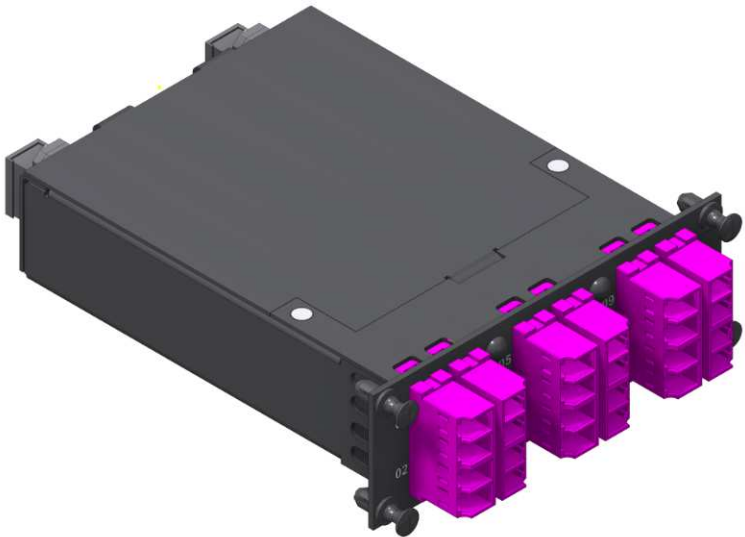
Part numbers RAL9005 black			
1 HU 1/4 Blind-PFP		170A0001	
1 HU 1/2 Blind-PFP		170A0002	
PFP type	Number and type of ports	for fiber type	
		MM	SM
		grey type B "aligned key"	green type A "opposed key"
1 HU 1/4	6 x MTP®	170A0630TB	170A0620
1 HU 1/4	8 x MTP®	170A0141TB	170A0140
1 HU 1/4	12 x MTP®	170A0636TB	170A0623
1 HU 1/2	12 x MTP®	170A0670TB	170A0660
1 HU 1/2	24 x MTP®	170A0674TB	170A0664
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 SD.			



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

Properties:

- For Port-breakout of PreCONNECT® DUODECIM trunks with MTP® connectors
- Height: 1 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 2 x MTP® female port 12F DUODECIM at the rear side:
 - OM4: MTP® adapter type B „aligned key” grey
 - SM: MTP® adapter type A „opposed key” green
- LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners



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
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 SD.				

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

Port density:

- 72 LC-Duplex or MTP® ports per HU

Dimensions:

- Width: 19“
- Height: 1 HU and 2 HU
- Depth: 200 mm and 300 mm. We recommend 300 mm as shown here, because the space to accommodate trunk cable dividers and connector legs is uncomfortable narrow within 200 mm deep panels.

Part numbers:

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

1 HU, 4/4 DUODECIM width partition, depth 300 mm	171H0010
1 HU, 4/4 DUODECIM width partition, depth 200 mm	171H0001
2 HU, 4/4 DUODECIM width partition, depth 300 mm	172H0001

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

Find further information in our product information SMAP-G2 HD.

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.



1/3 HU 1/4 blind PFP



1/3 HU 1/4 PFP 6 MTP®



SMAP-G2 HD 1/3HU 1/4 part front plates with matrix numbering:

Part numbers RAL9005 black			
1/3 HU 1/4 Blind-PFP		170H0001	
PFP type	Number and type of port	for fiber type	
		MM	SM
		grau Typ B “aligned key”	grün Typ A “opposed key”
1/3 HU 1/4	6 x MTP®	170H2013TB	170H2023
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 HD.			

**SMAP-G2 HD 12 fiber MTP® module cassettes
fitting for PreCONNECT® DUODECIM trunks:**

Properties:

- For Port-Breakout of PreCONNECT® DUODECIM trunks with MTP® connectors
- Fitting in SMAP-G2 HD panel with 4/4 DUODECIM width partition
- Height: 1/3 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 1x MTP® female port 12F DUODECIM at the rear side:
 - OM4: MTP® adapter type B „aligned key” grey
 - SM: MTP® adapter type A „opposed key” green
- LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners



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°
1	1 DUODECIM group of 6 = 6	170H1005OM4	170H1004	on request
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 HD.				

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

Port density:

- 96 LC-Duplex or MTP® ports per HU

Dimensions:

- Width: 19“
- Height: 1 HU
- Depth: 200 mm and 300 mm. We recommend 300 mm as shown here, because the space to accommodate trunk cable dividers and connector legs is uncomfortable narrow within 200 mm deep panels.

Part numbers:

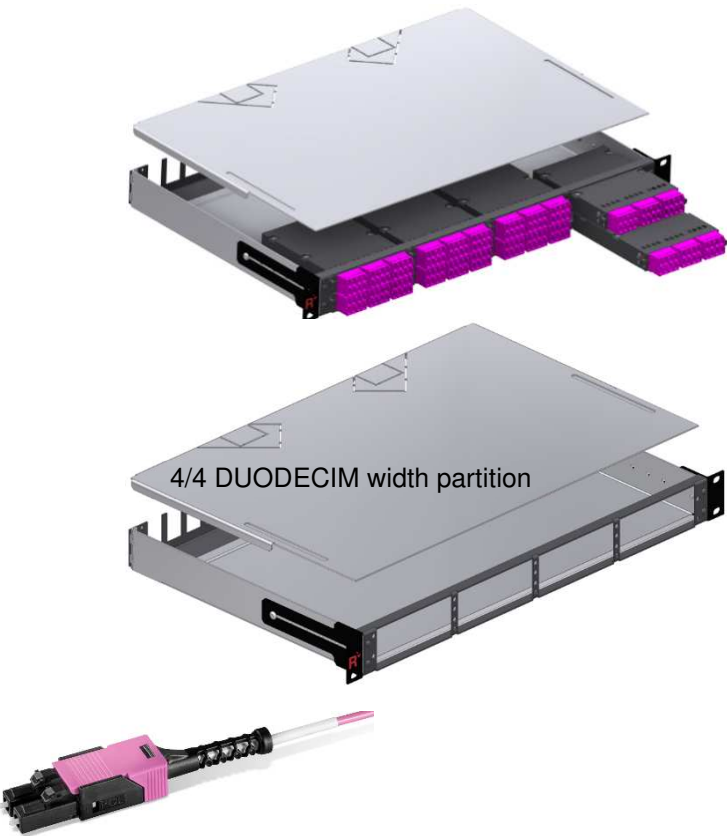
SMAP-G2 UHD empty distribution panels, RAL9005 black, back plane with 16 PreCONNECT® square interfaces:

- 1HU, 4/4 DUODECIM width partition, depth 300mm: 171H0011

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

Find further information in our product information SMAP-G2 UHD.

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.



SMAP-G2 UHD 1/2 HU 1/4 part front plates:

Part numbers RAL9005 black			
1/2 HU 1/4 Blind-PFP		170H3001	
PFP type	Number and type of port	for fiber type	
		MM	SM
		grau Typ B “aligned key”	grün Typ A “opposed key”
1/2 HU 1/4	6 x MTP®	170H6004TB	170H6003
Find part numbers for panels factory assembled with part front plates in our product information SMAP-G2 UHD.			

1/2 HU 1/4 PFP 6 MTP®



1/2 HU 1/4 Blind-PFP



SAMP-G2 UHD 24 fiber MTP® module cassettes for 4/4 slot panels fitting for PreCONNECT® DUODECIM trunks

Properties:

- For Port-breakout of PreCONNECT® DUODECIM trunks with MTP® connectors
- Fitting in SMAP-G2 UHD panel with 4/4 DUODECIM width partition
- Height: 1/2 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 2x MTP® female port 12F DUODECIM at the rear side:
 - OM4: MTP® adapter type B „aligned key” grey
 - SM: MTP® adapter type A „opposed key” green
- LC-Duplex ports at the front side
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners



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	170H4001OM4	170H4004	on request
Find part numbers for panels factory assembled with MTP® module cassettes in our product information SMAP-G2 UHD.				

PreCONNECT® Data Center Panel (DCP) 19" panel system:**Port density:**

- 72 LC-Duplex or MTP® ports per HU

Dimensions:

- Width: 19"
- Height: 1 HU
- Depth: see product information DCP

Part numbers:

DCP empty panel, RAL9005 black, inclusive module drawers and universal trunk management according to product information DCP:

- 1 HU 4/4 DUODECIM width partition: 165A0003

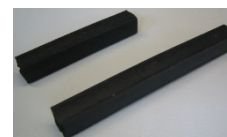


4/4 DUODECIM width partition



Blind cover to cover the unused slots within module drawers:

- Width 1/4, set consisting of 4 pcs.: 165A3008



Modular toolless mountable, height unit neutral patchcord guide.
Set consisting of 2 pcs. fitting for 1 HU panels: 165A3006



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



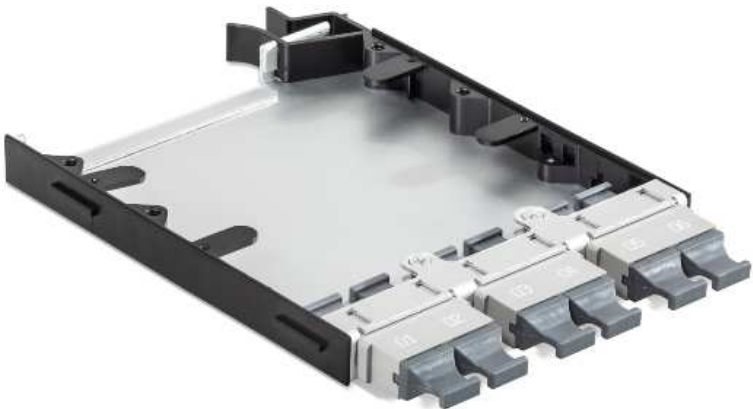
DCP panels are not appropriate for PURE trunks.

Find further information in our product information DCP.

**DCP 6 port MTP® adapter inserts fitting for
PreCONNECT® DUODECIM trunks:**

Properties:

- For direct patch of PreCONNECT® DUODECIM trunks
- Fitting in DCP panel with 4/4 DUODECIM width partition
- Height: 1/3 HU
- Width: 1/4
- Depth: 115 mm
- Toolless placement of the inserts into the slots of module drawers of the panel from the front and rear side possible



Part numbers			
PFP type	Number and type of port	for fiber type	
		MM	SM
		grey Typ B "aligned key"	green Typ A "opposed key"
1/3 HU 1/4	6 x MTP®	165A2013TB	165A2014
Find part numbers for panels factory assembled with part front plates in our product information DCP.			

**DCP 12 fiber MTP® module cassette fitting for
PreCONNECT® DUODECIM trunks:**

Properties:

- For port breakout of PreCONNECT® DUODECIM trunks with MTP® connectors
- Fitting in DCP panel with 4/4 DUODECIM width partition
- Height: 1/3 HU
- Width: 1/4
- Depth: 115 mm
- Polarity: Rx to Tx
- 1 x MTP® female port 12F DUODECIM at the rear side:
 - OM4: MTP® adapter type B „aligned key” grey
 - SM: MTP® adapter type A „opposed key” green
- LC-Duplex ports at the front side with integrated dust and laser protection shutters
- Toolless placement of the module cassettes into the slots of module drawers of the panel from the front and rear side possible



Part numbers				
Number of 12F DUODECIM MTP® 12 female ports at rear side	Number of LC-Duplex ports at front side	OM4	SM LC-PC 0°	SM LC-APC 8°
1	6	165A1010OM4	165A1011	on request
Find part numbers for panels factory assembled with MTP® module cassettes in our product information DCP.				

SMAP-G2 SD PURE
19" Distribution Panels empty:

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

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



PreCONNECT® PURE MTP®
adapter interface
at Trunk connector legs



SMAP-G2 SD PURE Part-Front-Plates PFP

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



1 HU 1/4 Blind-PFP



1 HU 1/2 PFP for 12 MTP® adapter interfaces



1 HU 1/2 Blind-PFP



SMAP-G2 SD 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® OCTO OM4 patchcord:**Single jacket:**

Single jacket cable 8 OM4 fibers FRNC-LSZH
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B “1 to 12”

Part number, length variable:

Diameter 2.0 mm: 080A2063OM4
Diameter 3.0 mm: 080A2030OM4



MULTIMODE

**Double jacket:**

Double jacket cable 8 OM4 fibers FRNC-LSZH
Diameter 3.0 / 4.5 mm
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B “1 to 12”
Standard lengths of the 3.0 mm single jacket
MTP®-legs = 0.5 m, others on request

Part number, length variable: 080A2031OM4

PreCONNECT® OCTO patchcords polarity TIA method B “1 to 12” are suitable for transceiver-transceiver direct-attach.



PreCONNECT® OCTO SM patchcords:**Single jacket:**

Single jacket cable 8 SM fibers FRNC-LSZH
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B „1 to 12“

Part numbers, length variable:

Diameter 2.0 mm: 080A2065G657A1

Diameter 3.0 mm: 080A2036G657A1

Double jacket:

Double jacket cable 8 SM fibers FRNC-LSZH
Diameter 3.0 / 4.5 mm
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B „1 to 12“
Standard lengths of the 3.0 mm single jacket
MTP®-legs = 0.5 m, others on request

Part numbers, length variable: 080A2045G657A1



PreCONNECT® OCTO patchcords polarity TIA method B “1 to 12” are suitable for transceiver-transceiver direct-attach.



PreCONNECT® OCTO OM4 Multijumper (Multipatchcord):

Breakout cable n x 8 OM4 fibers FRNC-LSZH
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B “1 to 12”
MTP® leg-length = variable

Part numbers, length variable:

4 OCTO channels: 037A2052OM4
8 OCTO channels: 037A2053OM4
12 OCTO channels: 037A2054OM4

Breakout cable I-F(ZN)HH n x 8			
OCTO channels	Structure	Fiber count	Diameter
4	4 x 8	32	7.5 mm
8	8 x 8	64	9.5 mm
12	12 x 8	96	12.0 mm

MULTIMODE



PreCONNECT® OCTO multijumper polarity TIA method B “1 to 12” are suitable for transceiver-transceiver direct-attach.



PreCONNECT® OCTO SM multijumper (multipatchcord):

Breakout cable n x 8 SM fibers FRNC-LSZH
MTP® 12 female with OCTO fiber assignment
Polarity TIA method B “1 to 12”
MTP® leg-length = variable

Part numbers, length variable:

- 4 OCTO channels: 037A2060G657A1
- 8 OCTO channels: 037A2061G657A1
- 12 OCTO channels: 037A2062G657A1

Breakout cable I-F(ZN)HH n x 8			
OCTO channels	Structure	Fiber count	Diameter
4	4 x 8	32	7.5 mm
8	8 x 8	64	9.5 mm
12	12 x 8	96	12.0 mm

SINGLE MODE



PreCONNECT® OCTO multijumper polarity TIA method B “1 to 12” are suitable for transceiver-transceiver direct-attach.



Patchcords:

Properties:

Kink and crush resistance optimized for environmental conditions
Suitable for operation in temperatures from -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 measured in accordance with IEC 61300-3-4 „C“ or „Substitution“
method, measurement values on request
Serial number labels at the cable ends on both sides
Individually packaged in foil bags with product ID label


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



**With LC-COMPACT (LCC) connectors for
SMAP-G2 SD and DCP 19“ panel system**

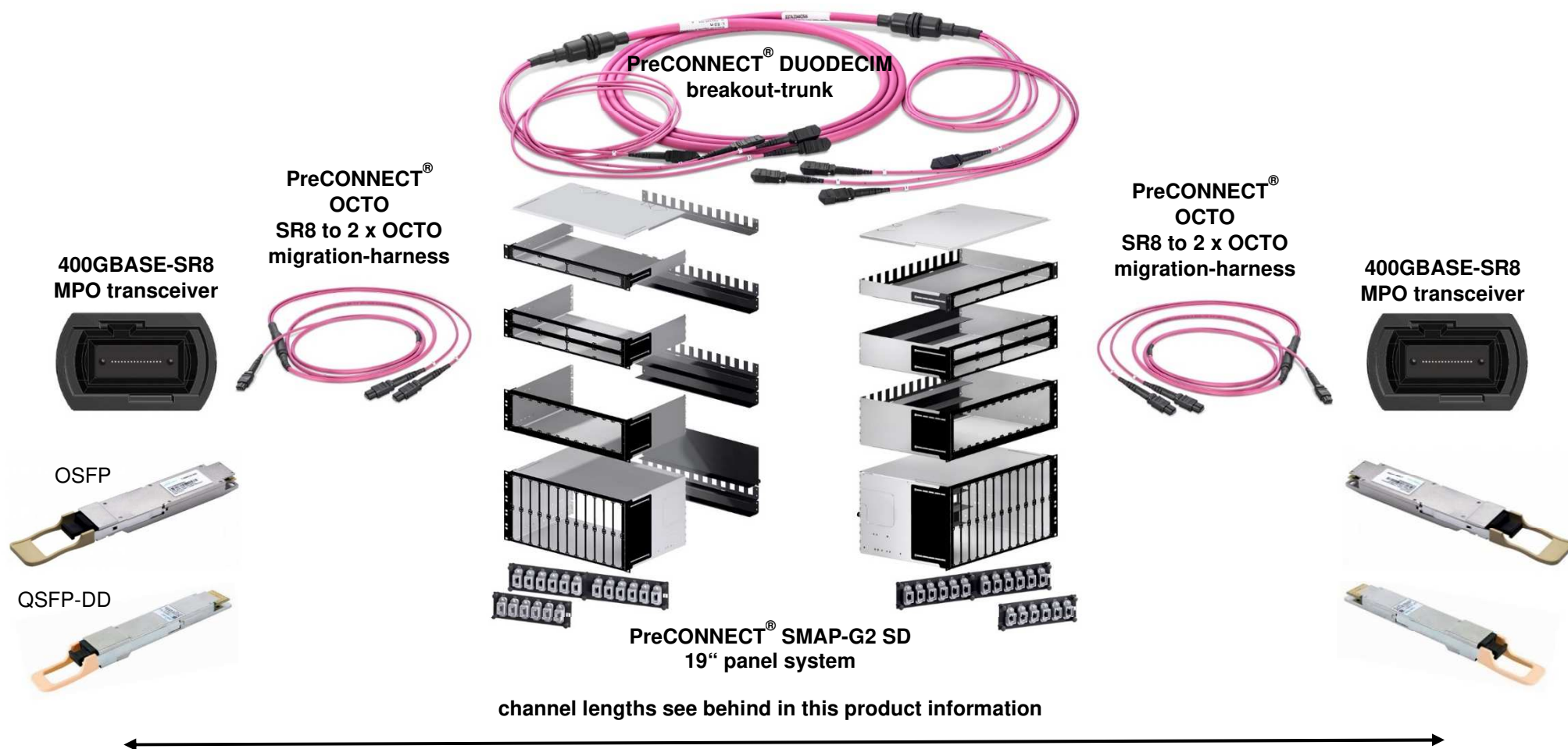


**With LC-COMPACT Push-Pull-Boot (LCC-PPB) connectors
for SMAP-G2 HD and UHD
19“ panel system**


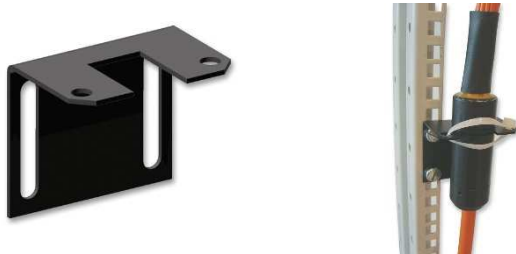
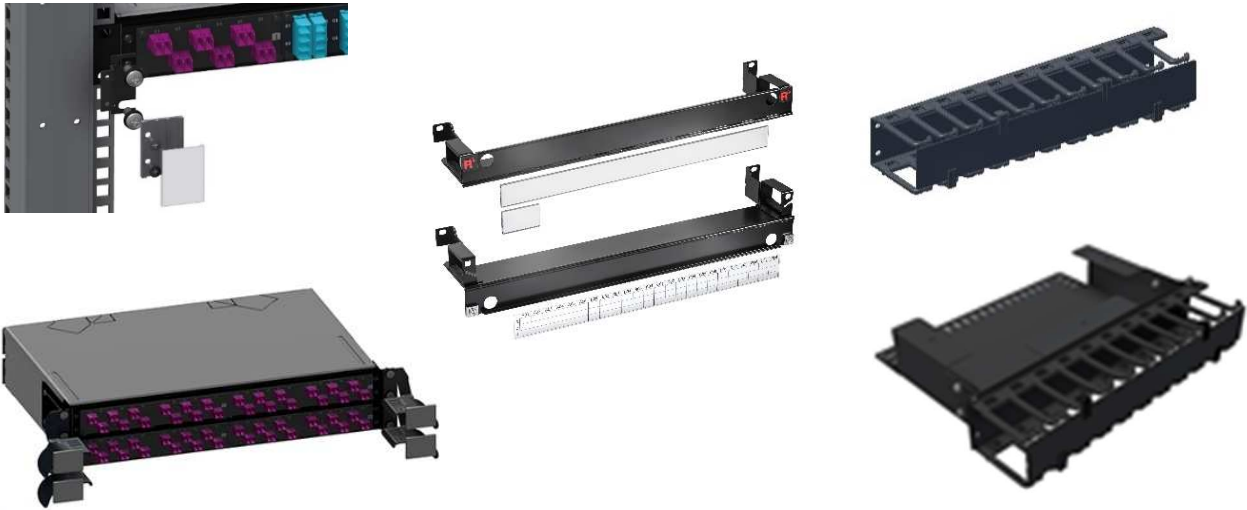
 Part numbers Duplex Patchcord cable type round I-V(ZN)H and I-V(ZN)H(ZN)H FRNC-LSZH					
Cable diameter	Connectors	Length	OM4	SM PC 0°	SM APC 8°
2.0 mm	LC-Compact » LC-Compact	variable	087A6623OM4	087A6620G657A1	087A6622G657A1
	LC-Compact PPB » LC-Compact PPB	variable	087A6737OM4	087A6738G657A1	on request
2.8 mm	LC-Compact » LC-Compact	variable	087A6601OM4	087A6600G657A1	087A6609G657A1
	LC-Compact PPB » LC-Compact PPB	variable	on request	on request	on request
double jacket 2.8 / 5.0 mm	LC-Compact » LC-Compact	variable	087A6613OM4	087A6610G657A1	087A6612G657A1
	LC-Compact PPB » LC-Compact PPB	variable	on request	on request	on request

Migration of PreCONNECT® DUODECIM to 400GBASE-SR8:

Part numbers of the shown migration-harness and how PreCONNECT® DUODECIM can be migrated to 400GBASE-SR16, will we explain to you on request.



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		

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"

About Rosenberger OSI:

Since 1991, Rosenberger Optical Solutions & Infrastructure (Rosenberger OSI) has been an expert in innovative fiber optic cabling infrastructure and service solutions for Data Centers, Local Networks, Telecom and Industrial.

The products and services can be found wherever largest amounts of data have to be transferred quickly and securely. In addition to the development and production of a broad portfolio of fiber optic and copper cabling systems, Rosenberger OSI also offers a variety of services such as planning, installation and maintenance of cabling infrastructure. Rosenberger OSI has been a part of the globally operating Rosenberger Group since 1998, a worldwide leading provider of high-frequency-, high-voltage-, and fiber-optic-connection solutions headquartered in Germany.

For further information, please visit: www.rosenberger.com/osi

Rosenberger

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