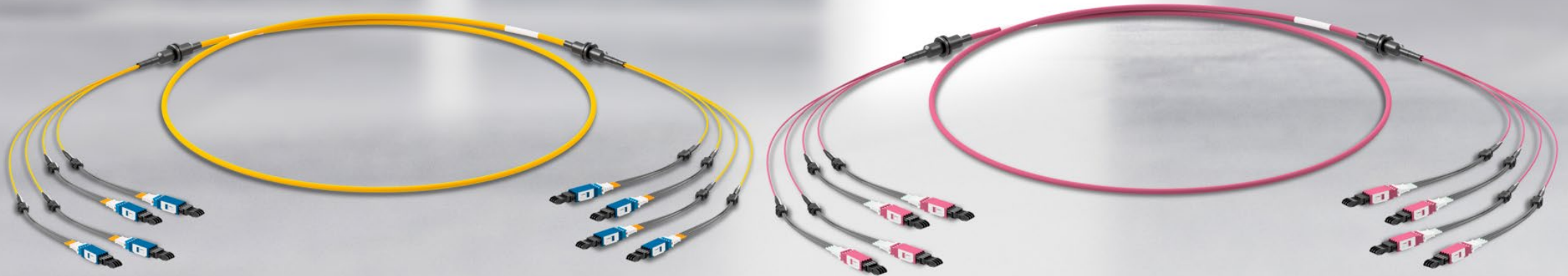


PreCONNECT® OCTO SN®

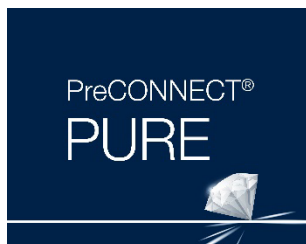
PRODUCT INFORMATION



PreCONNECT® OCTO SN® solution is available in two end face quality features: BASIC and PURE**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.

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: XXXAXXXXP*)

(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:

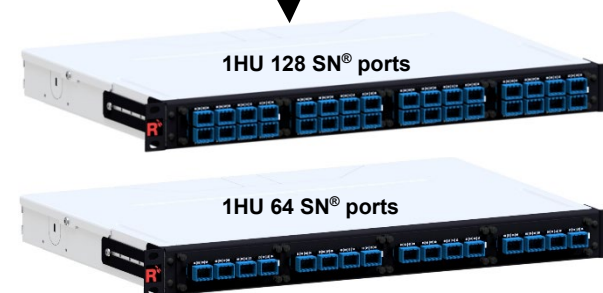
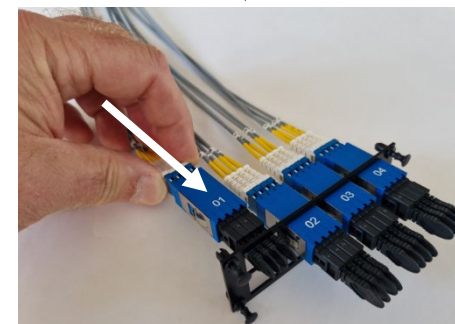
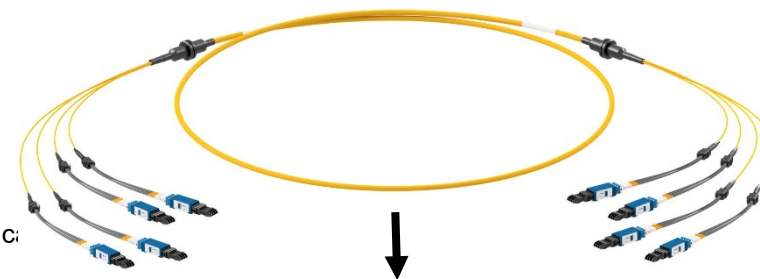
Infrastructure and IT room cabling within data centers

System consists of:

- With connector system SN® factory assembled FO breakout trunk cables, FRNC-LSZH indoor c
- up to 128 fibers, SN® Quad couplers at SN® connectors of the trunk legs
- 19" panel system SMAP-G2 SD
- Suitable Patchcords
- Useful accessories
- Patch Location Rack

Features:

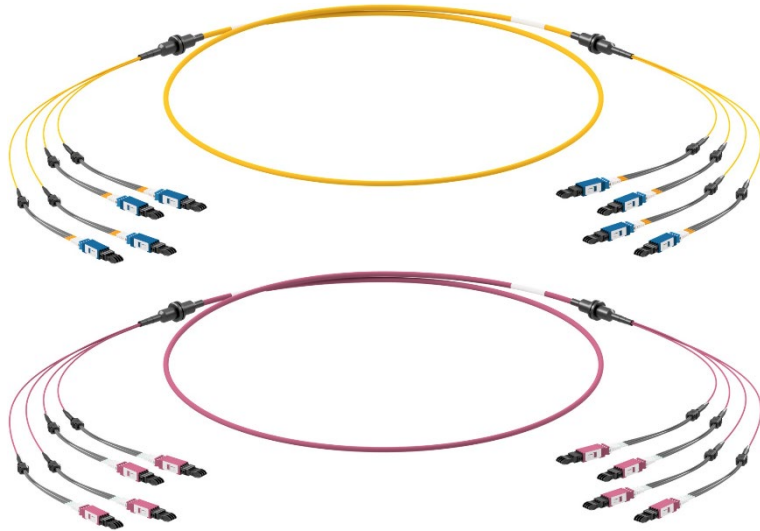
- SN® breakout trunks up to 144 fibers with 8 fiber = 4 channel OCTO granularity
- FRNC-LSZH breakout indoor cables
- 4 MDC within one SN® Quad coupler at each trunk leg
- Up to 128 SN® (32 SN® Quad) ports per HU at 1, 2 and 3HU panel and 153,6 per HU (total 768) at 5HU panel



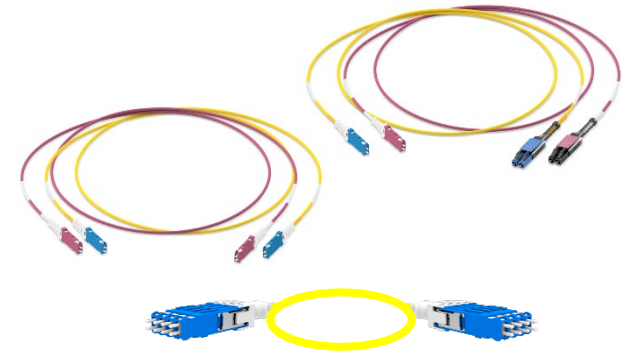
Your benefits at a glance:

- Excellent fit for SR4 and DR4/PSM4 applications through the 8 fiber = 4 channel OCTO trunk legs
- Maximum fast and secure installation!
 - Reduction of panel installation time by 75%. Instead of four single SN® connectors per SN® Quad, only one trunk leg with SN® Quad coupler must be plugged
 - SN® Quad couplers at SN® connectors of the trunk legs protecting the connector tip surfaces against contamination and damage
 - Position permutation within the SN® Quad couplers are excluded by factory assembling
- The individual SN® connectors at the trunk legs, can be unplugged in case of service is needed, the other three within the SN® Quad coupler remain in operation
- Rack height unit saving through port density up to 128 SN® per HU
- Highest quality and cost-efficiency through factory assembling
- PreCONNECT® cabling systems consist of perfectly harmonized modular single components

PreCONNECT® OCTO SN® breakout trunk



SN® patchcords



patch location rack



19" panel system
SMAP-G2 SD



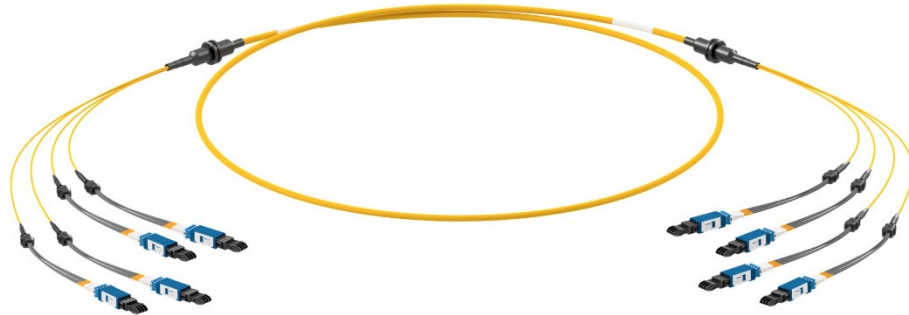
accessories



PreCONNECT® OCTO SN® application case point-to-point:

- 400Gbit/s, 800Gbit/s, 1,6TBit/s

PreCONNECT® OCTO SN® breakout trunk



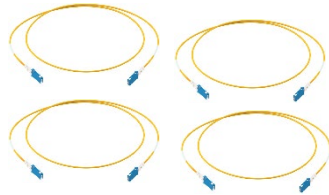
SN® Quad Transceiver



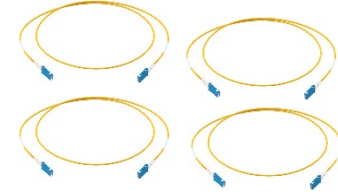
SN® Quad Transceiver



4 SN® patchcords



4 SN® patchcords



SMAP-G2 SD 1HU



SMAP-G2 SD panels with maximum port density

1HU: 4x8=32 SN® Quad = 128 MDC ports



3HU: 12x8=96 SN® Quad = 384 MDC ports



or

SN® Quad Uniboot 8F



or

SN® Quad Uniboot 8F



PreCONNECT® OCTO SN® application case port breakout:

- 400Gbit/s to 4 x 100Gbit/s

PreCONNECT® OCTO SN® breakout trunk

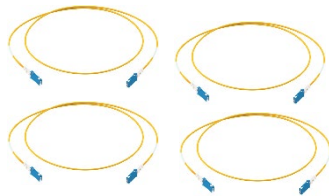
SN® Quad Transceiver



LC-Duplex Transceiver



4 SN® patchcords



or

SN® Quad Uniboot 8F



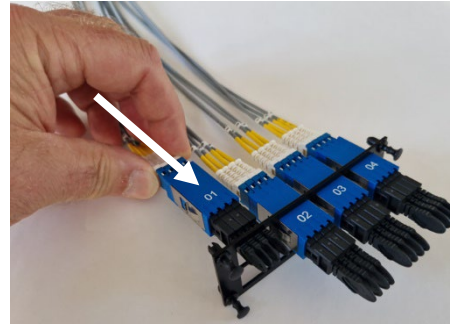
4 SN® to LCC-PPB patchcords



Properties:

Connector type:

- 4 SN® within one SN® Quad coupler at each trunk leg
- Connector data, see separate connector data sheets
- Trunk legs with SN® Quad couplers are plugged into the empty part front plates from the rear

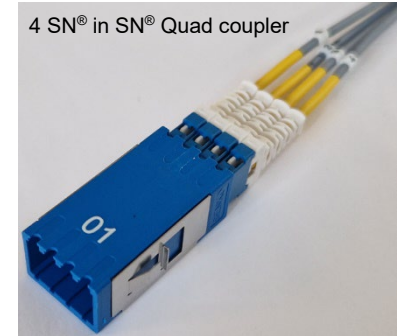


SN® EZ-Flip



SN® ist ein eingetragenes Warenzeichen von SENKO Advance Co. Ltd.

4 SN® in SN® Quad coupler



Cable types:

- Up to 8ch/16F: I-V(ZN)HH n x 2, CPR class B2ca
- From 12ch/24F: I-F(ZN)HH n x 8 fibers, CPR class Cca, with n 1 to 4 leg-dividers ¹⁾
- Cable data, see separate cable data sheets

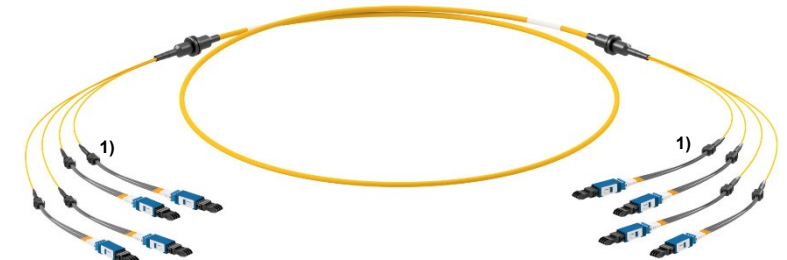
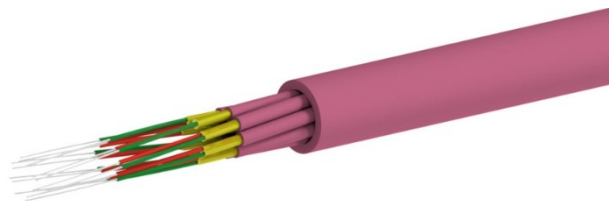
I-F(ZN)HH 6 x 8 fiber breakout cable



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

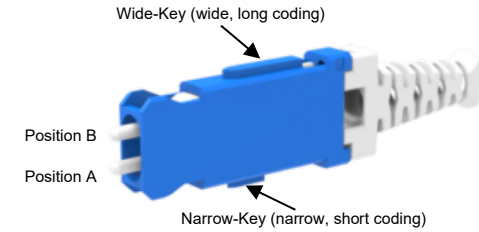
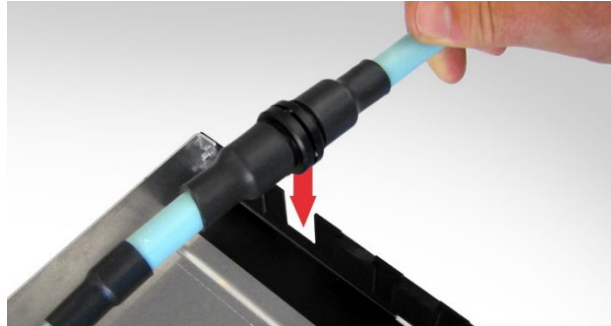
I-V(ZN)HH 8 x 2 fiber breakout cable



Properties:

Polarity: A to B „channelwise crossed“ (pairwise flipped)

Installation: PreCONNECT® square-interfaces at both trunk ends, which can be tool-less hooked into PreCONNECT® 19" panels for tensile and torsion resistant mounting.



Installation protection:

- Standard: Dust proof foil-tube



- On request: 150 N tensile strength, crush and kink resistant, IP50 proof installation tube



Standard stepped "A" leg lengths and installation tube diameters of PreCONNECT® OCTO SN® trunks, steps channel/fiber 1 to n: 1 = long, n = short					
Number of channels/fibers	4/8	8/16	16/32	32/64	64/128
"A" leg lengths stepped from to [cm] ¹⁾	45 bis 75	45 bis 73	60 bis 66	60 bis 78	60 bis 102
Outer diameter installation tube IP50 Indoor [mm]	30	30	55	55	75

¹⁾ Production tolerance – 5 cm

Properties:

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

Length tolerances:

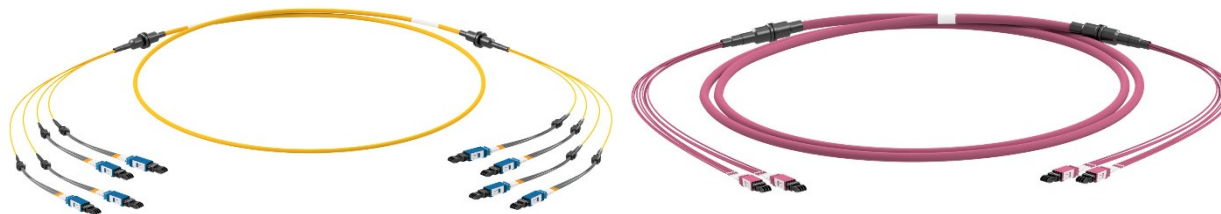
Trunk length	Tolerance
<= 10m	+/- 50cm
> 10m <= 30m	+/- 100cm
> 30m <= 100m	+/- 150cm
> 100m	+/- 2%

Operating temperature range: -10°C to +60°C

Delivery form:

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

PreCONNECT® OCTO SN® breakout trunk with indoor cable:



Part numbers for variable lengths					
Number of channels/fibers	Number of SN® QUAD per side	Cable type	CPR class	SM PC 0°	OM4
4/8	1	I-V(ZN)HH 4 x 2 fibers	Dca ¹⁾	on request	on request
8/16	2	I-V(ZN)HH 8 x 2 fibers	Dca ¹⁾	on request	on request
16/32	4	I-F(ZN)HH 4 x 8 fibers with leg dividers	Cca	037A2142G657A1	037A2143OM4
32/64	8	I-F(ZN)HH 8 x 8 fibers with leg dividers	Cca	037A2144G657A1	037A2145OM4
64/128	16	I-F(ZN)HH 16 x 8 fibers with leg dividers	Cca	on request	on request

¹⁾ Change to B2ca once Dca inventory is used up
 Technical data of connectors, fibers and cables on request via the product profile of your selected trunks.
 Trunks with other numbers of channel/fiber on request.

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

Port density:

- 128 SN® (32 SN® Quad) ports per HU at the 1, 2 and 3 HU panels and 153.6 per HU (total 768) at the 5 HU panel

Dimensions:

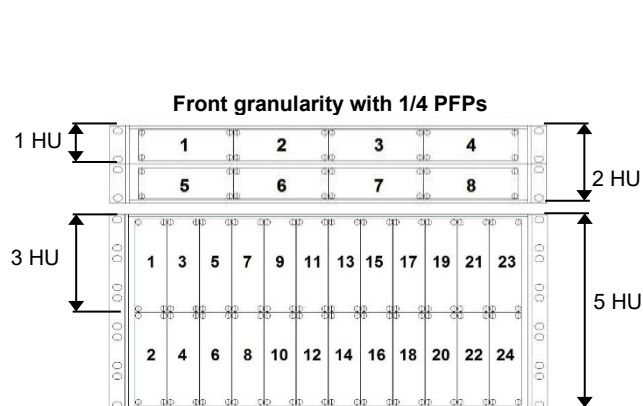
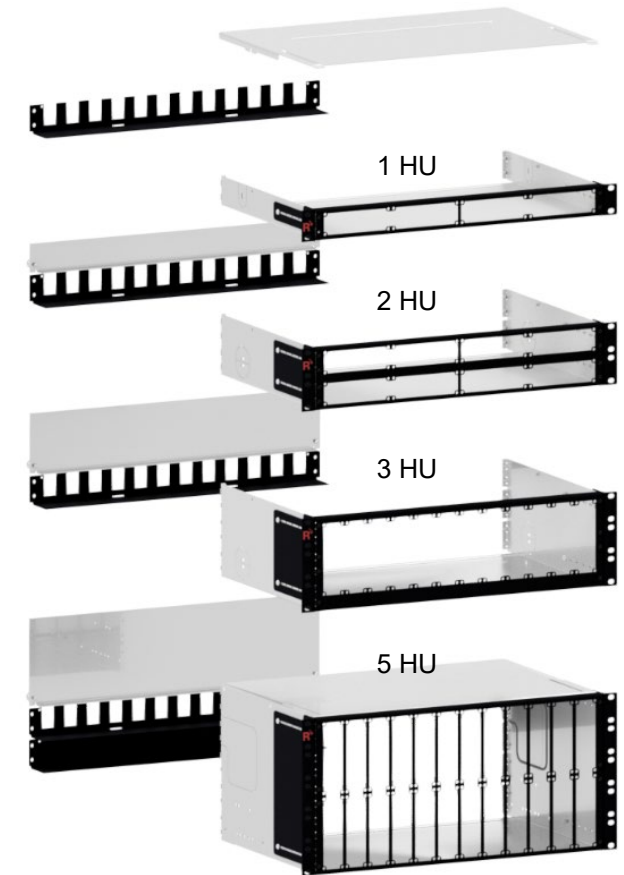
- Width: 19"
- Height: 1, 2, 3 and 5 HU
- Depth: 200 mm and 300 mm, see product information SMAP-G2 SD

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

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

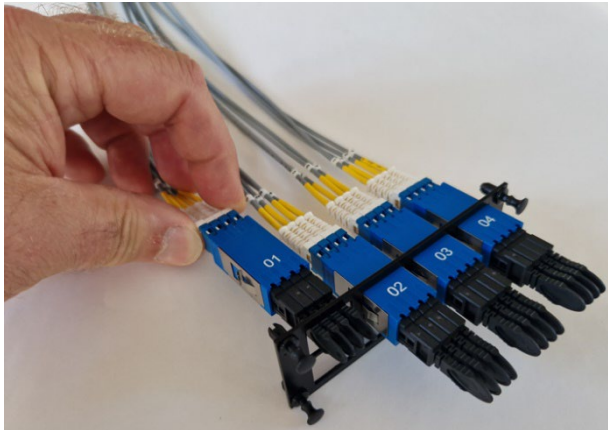


1 HU 1/4 Blind PFP RAL9005 black
Part number: 170A0001



SMAP-G2 SD 1HU 1/4 part front plates:

Trunk legs with SN® Quad couplers are plugged into the empty part front plates from the rear

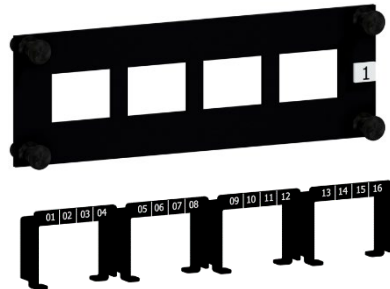


Plug port numbering frames on the SN® Quad couplers



SMAP-G2 SD 1HU 1/4 part front plates:

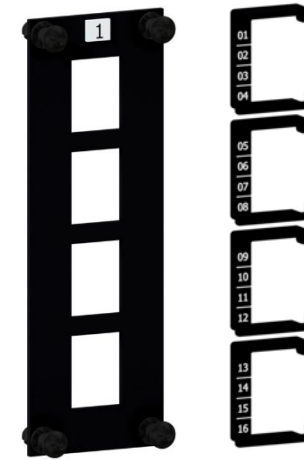
1 HU 1/4 PFP empty for 4 SN® Quad couplers
for horizontal mounting, port numbering horizontal readable
incl. port numbering frames for numbering 1 to 16
Part number: 170A0013



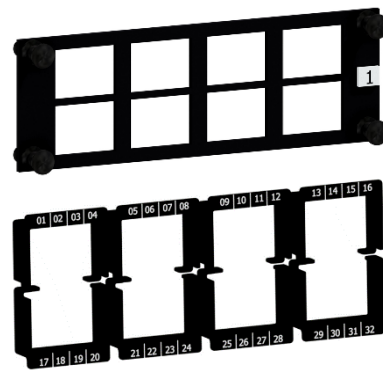
Blind plug for open
front plate holes
Part number: 111A0117



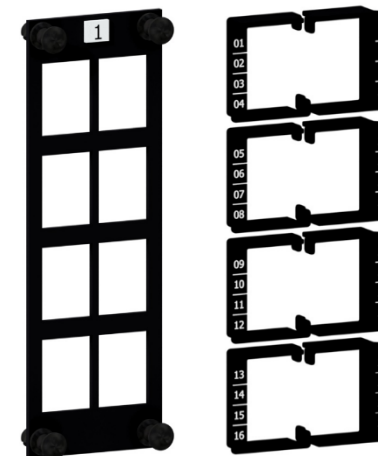
1 HU 1/4 PFP empty for 4 SN® Quad couplers
for vertical mounting, port numbering vertical readable
incl. port numbering frames for numbering 1 to 16
Part number: 170A0014



1 HU 1/4 PFP empty for 4 SN® Quad couplers
for horizontal mounting, port numbering horizontal readable
incl. port numbering frames for numbering 1 to 32
Part number: 170A0011



1 HU 1/4 PFP empty for 4 SN® Quad couplers
for vertical mounting, port numbering vertical readable
incl. port numbering frames for numbering 1 to 32
Part number: 170A0012



Patchcords:

Properties:

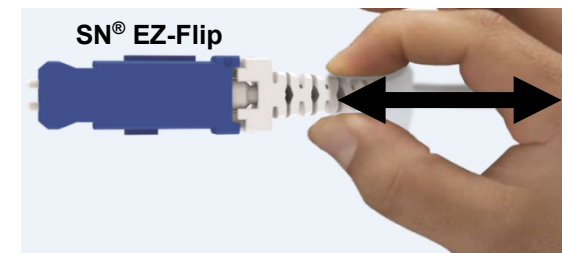
- Kink and crush resistance optimized for environmental conditions
- Operating temperature range: -10°C to +60°C
- Polarity:
Full-duplex cables with duplex connectors on both sides “crossed” A to B in accordance with ISO/IEC 11801 and EN 50173

Length tolerances:

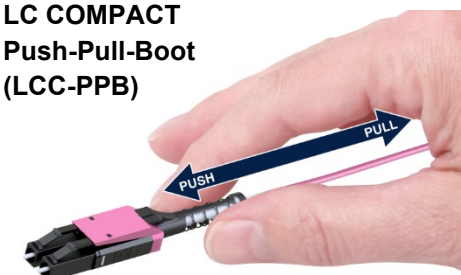
- Up to 1 m = - 50 mm
- 2 m to 3 m = - 100 mm
- 4 m to 25 m = - 200 mm
- Longer than 25 m = - 1 %

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



LC COMPACT
Push-Pull-Boot
(LCC-PPB)



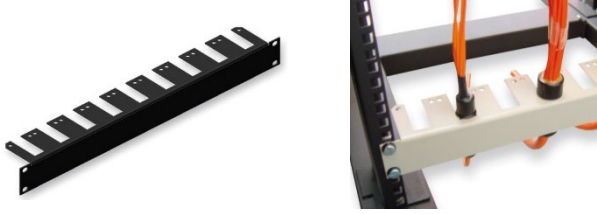
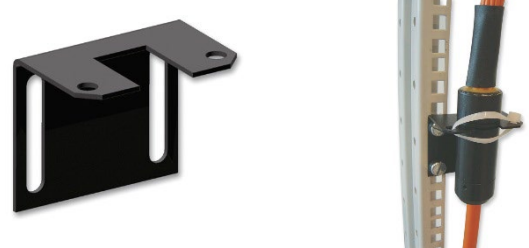

SN® Quad Uniboot
8F patchcord
on request



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°
1.6 mm	SN® PC 0° » SN® PC 0°	variabel	093A0006OM4	093A0005G657A1
	SN® PC 0° » LCC-PPB PC 0°	variabel	093A0008OM4	093A0007G657A1
2.0 mm	SN® PC 0° » SN® PC 0°	variabel	093A0002OM4	093A0001G657A1
	SN® PC 0° » LCC-PPB PC 0°	variabel	093A0004OM4	093A0003G657A1
double jacket 2.0 / 4.0 mm	SN® PC 0° » SN® PC 0°	variabel	on request	on request
	SN® PC 0° » LCC-PPB PC 0°	variabel	on request	on request

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

Accessories:

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

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 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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Date creation: 2023-11-23
Date creation revision: 2023-11-23
Revision: 001