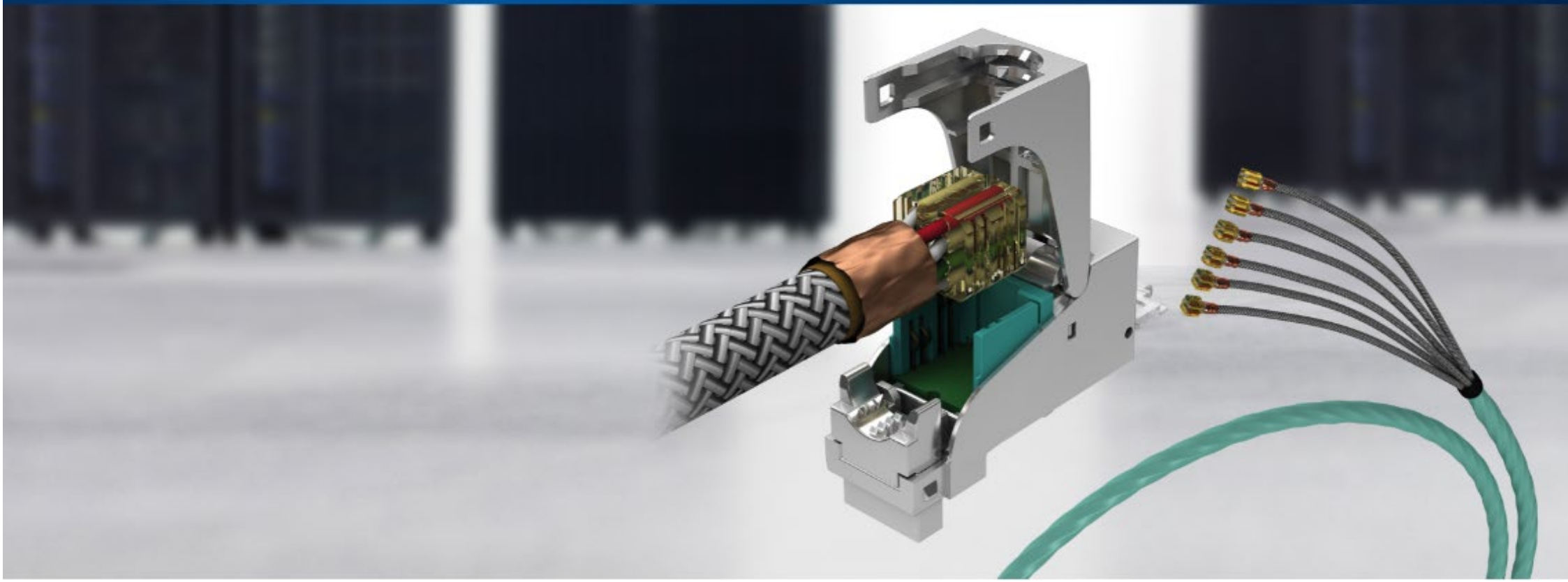


PreCONNECT® COPPER HIGH DENSITY

PRODUCT INFORMATION



Applications:

IT room cabling within data centers and data center and EDGE computing containers

System consists of:

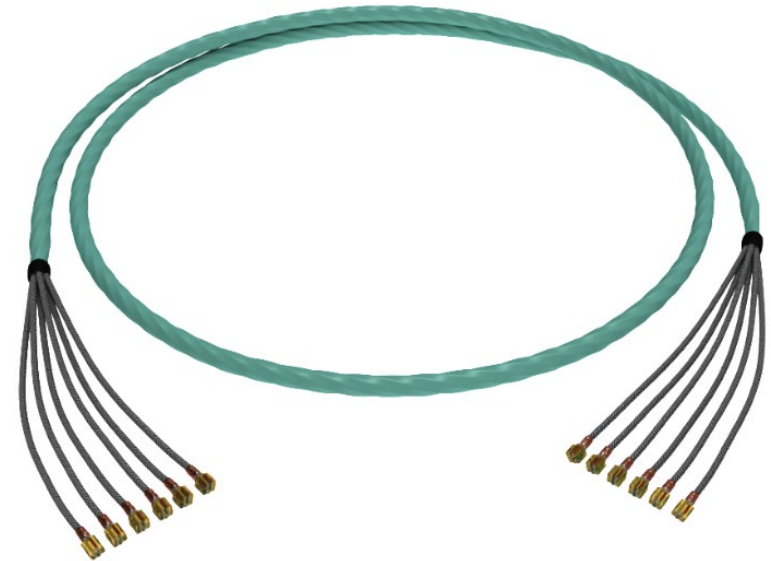
- Factory assembled 24-pair/6 channel Cu cables, Cat.7 S/FTP, AWG23/1 and AWG26/1, FRNC-LSZH indoor cable
- With shielded Cat. 6A RJ45 Keystone jack modules within 19" panels, to accommodate the at the Trunk legs factory assembled module-cubes
- Suitable 19" panels
- Suitable RJ45 patchcords
- Useful accessories

Features:

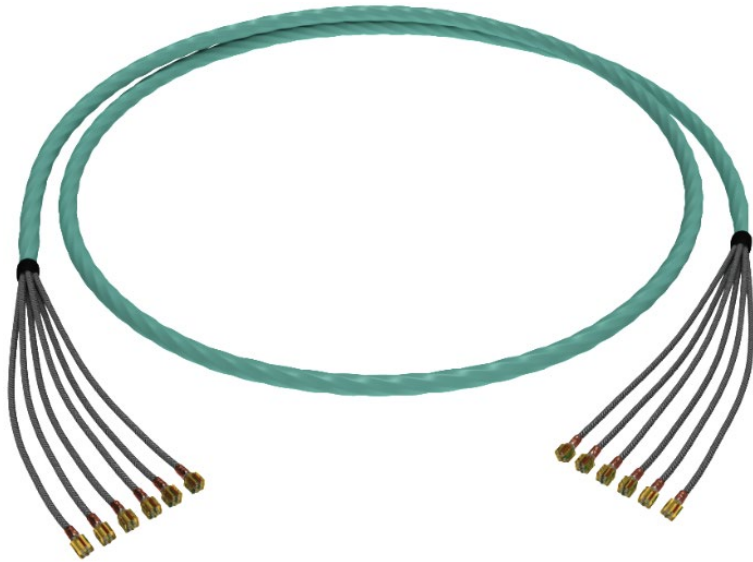
- 10GBASE-T class E_A permanent links with AWG23/1 cable up to 90 meters
- 10GBASE-T class E_A permanent links with AWG26/1 cable up to 60 meters
- Diverse 19" panel selectable

Your benefits at a glance:

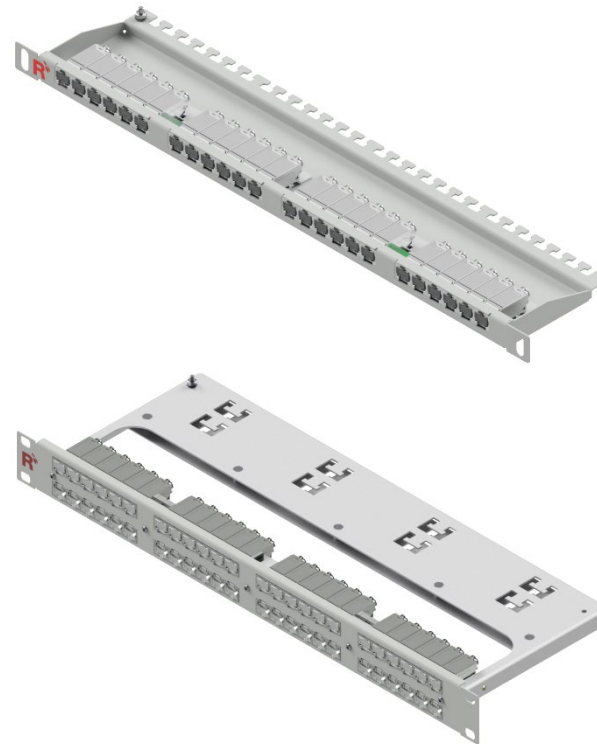
- Cost-effective through space and weight savings by the 24-pair cable, particularly appropriate for Top-of-the-Rack (ToR) cabling
- Fast and safe installation through factory assembled Plug & Play systematic
- Highest quality and cost-efficiency through factory assembling
- PreCONNECT® cabling systems consist of perfectly harmonized modular single components



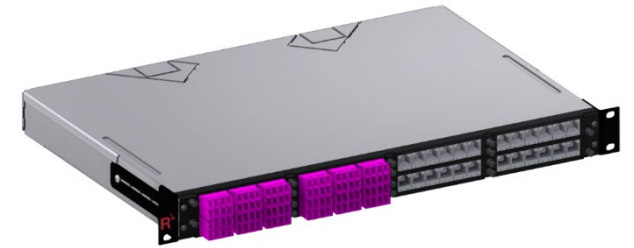
PreCONNECT® COPPER HD trunk



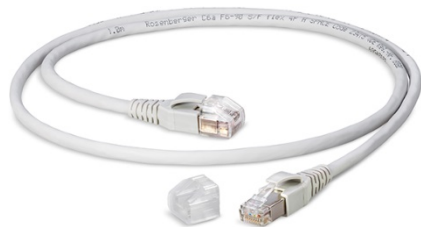
PreCONNECT® COPPER HD 19" panels



Mix PreCONNECT® FIBER and COPPER HD



PreCONNECT® COPPER patch-cords



Accessories



PreCONNECT® COPPER HIGH DENSITY trunk:

The PreCONNECT® COPPER HIGH DENSITY trunk the consistent further development of our successful PreCONNECT® COPPER ToR-G2 trunks, to fulfil the demand on even higher port density.

Particular suitability for „top-of-the-rack“ through the use of innovative thin, flexible Cat.7 copper data cables with 24 foil-screened solid wire pairs below an overall copper braid, with a FRNC-LSZH cable jacket. Selectively AWG23/1 or AWG26/1.

The thin and flexible cables are offering their advantages at raised-floor installations too, their much lower volume interferes the flow of the cooling-air less and they do not fill the cable-trays and the raised-floor that much.

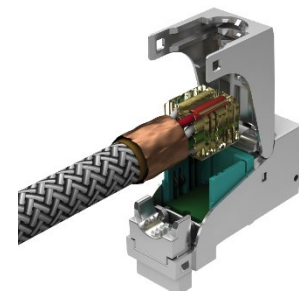
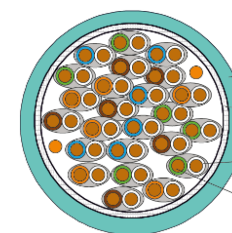
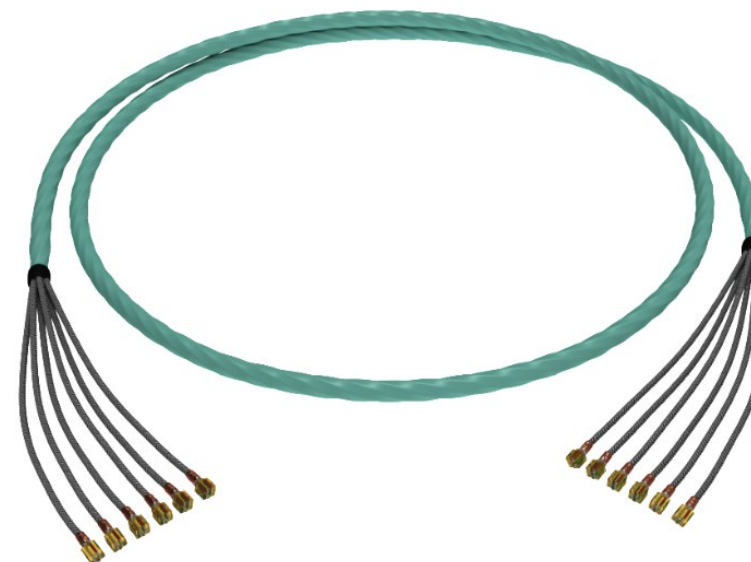
By laying the cables within equipment racks, the cables can be routed in a manner to not interfere the flow of the cooling-air at the equipment cooling-fan’s inlet and outlet sides, because of its higher flexibility and its thin diameter. So the cable itself helps your equipment cooling optimization.

Cable types:

- 24 pairs, 6-channel S/FTP Cat.7, solid wire foil-screened pairs, below overall copper braid, FRNC-LSZH cable jacket, color aqua
- Selectively six 4x2xAWG23/1 or six 4x2xAWG26/1
- CPR class: AWG23/1 B2ca, AWG26/1 = Cca
- Diameter: AWG23/1 = 18.2mm, AWG26/1 = 15.2mm

RJ45 jack module:

Both sides factory assembled with each six module-cubes to be installed into the shielded Cat.6A ISO/IEC RJ45 Keystone jack modules within the Panels, fanout legs protected with overall copper braid.



GHMT TA certificat No.: On request

Link lengths:

The PreCONNECT® COPPER HIGH DENSITY trunks are fulfilling the specifications of **permanent link 10GBASE-T class E_A**:

- AWG23/1 up to 90m
- AWG26/1 up to 60m, instead of the standardized 90m

The legs with the module-cubes are protected with overall copper braids, to guarantee the shielding and grounding of the entire Trunk.

The length of the legs with the Module-Cubes are matched to the corresponding 19" panels.

PreCONNECT® COPPER HIGH DENSITY trunks are delivered in our well known factory assembled high PreCONNECT® quality and „plug-and-play“ functionality and 100% factory measured of course. You merely must lay the cable and snap the Module-Cubes into the RJ45 jacks within the 19" panels.

Polarity: 1:1 TIA 568 A

PoE: AWG23/1 and AWG26/1 applicable for PoE+

NVP for lengths measurement: AWG23/1 and AWG26/1 = 76%

Length definition:

- Order-length = length between the RJ45 jacks at both sides
- Maximum order-length, 10GBASE-T permanent link maximum length:
 - AWG23/1: From 2 to 90 meter
 - AWG26/1: From 2 to 60 meter

Delivery form: As cable ring in cardboard-box with measurement protocol

Installation protection of the factory assembled module-cubes:

Module-cubes with rugged protection caps, within dust-proof bubble bag, as shown below.



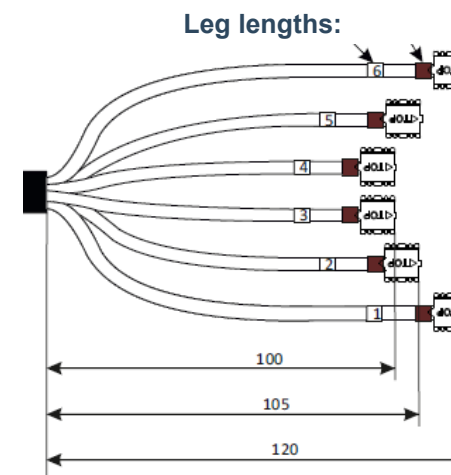
Part numbers:

(XXX = length in meter, e.g. -035 = 35 m)

PreCONNECT® COPPER HIGH-DENSITY Trunk:

- AWG23/1 CPR class B2ca: **047A0360-XXX**
- AWG26/1 CPR class Cca: **047A0361-XXX**

Trunk length	Tolerance
<= 5m	+/- 10cm
> 5m <= 90m	+/- 2%

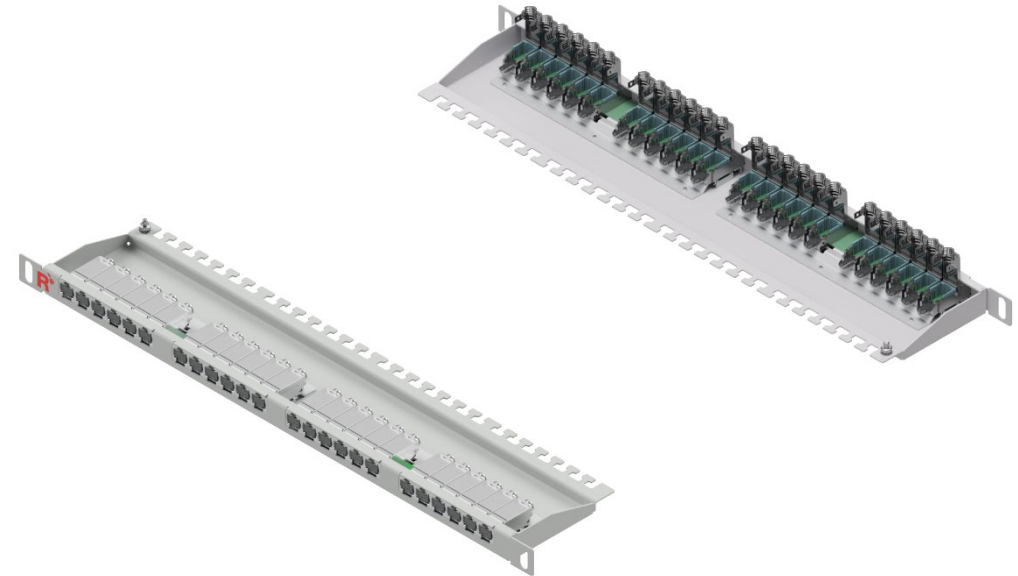


PreCONNECT® COPPER HIGH DENSITY 19“ panels:

0.5HU 24 RJ45 Cat. 6A
to accommodate 24 trunk legs assembled with module-cubes:

Material: Steel, powder-coated
Depth: 120mm

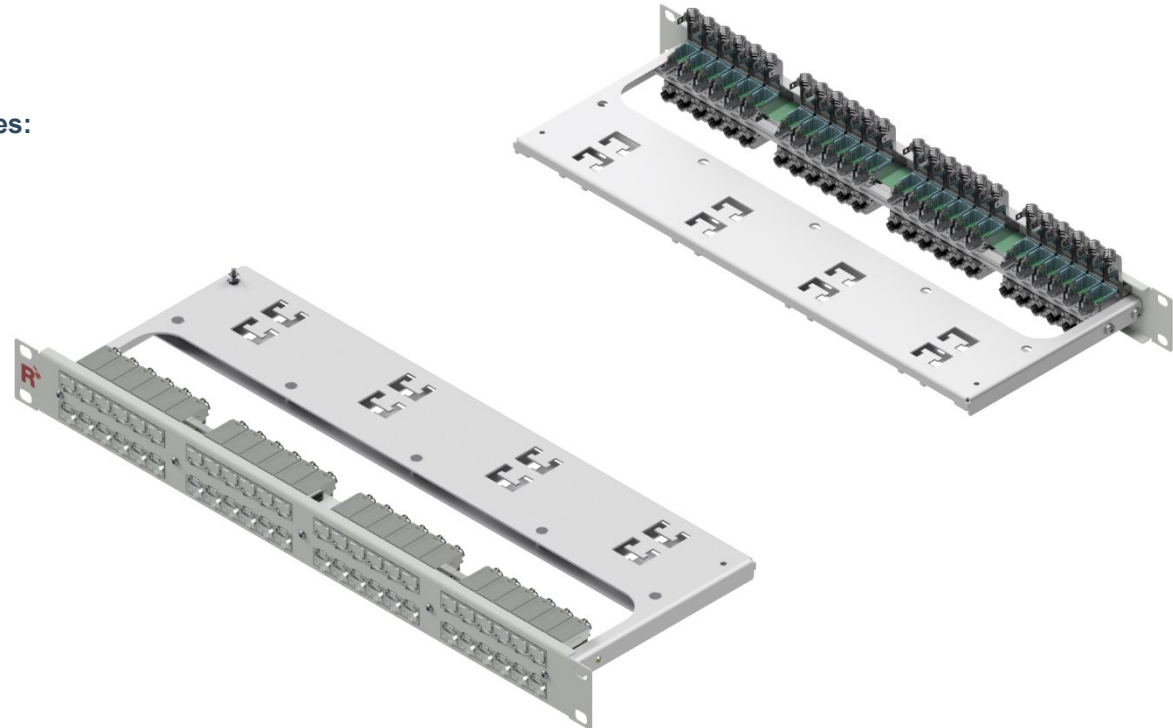
Part numbers:
RAL 7035 light grey: 800A0227
RAL 9005 black: 800A0228



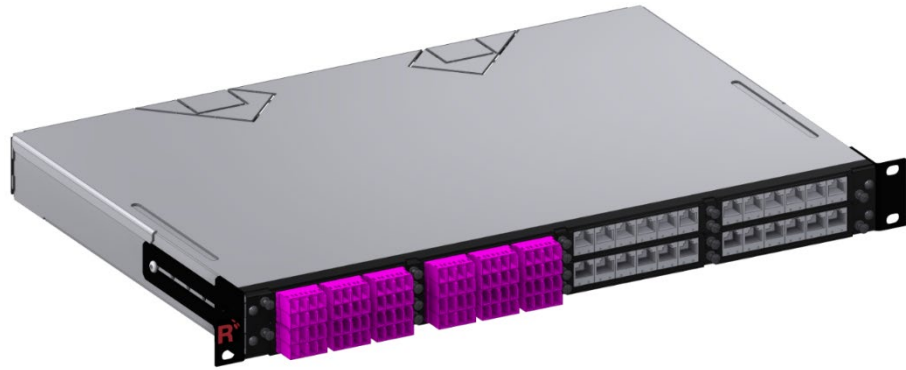
1HU 48 RJ45 Cat. 6A
to accommodate 48 Trunk legs assembled with module-cubes:

Material: Steel, powder-coated
Depth: 120mm

Part numbers:
RAL 7035 light grey: 800A0225
RAL 9005 black: 800A0226



Mix PreCONNECT® FIBER and COPPER within PreCONNECT® SMAP-G2 UHD



SMAP-G2 UHD 19" 1 HU empty distribution panels, RAL9005 black back plane with 16 PreCONNECT® square-interfaces see product information PreCONNECT® SMAP-G2 UHD

Part number 1 HU, 4/4 width partition, depth 300mm: 171H0011

SAMP-G2 UHD 6 Port RJ45 Cat. 6A module for 4/4 slot panel fitting for PreCONNECT® COPPER HIGH DENSITY trunks:

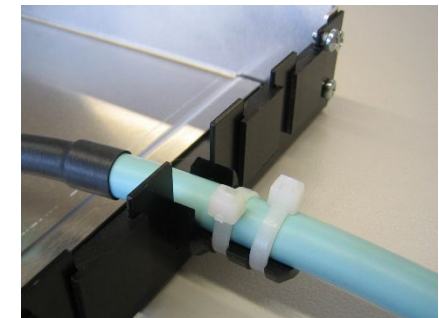
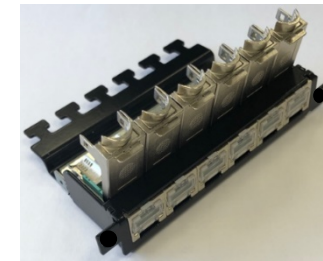
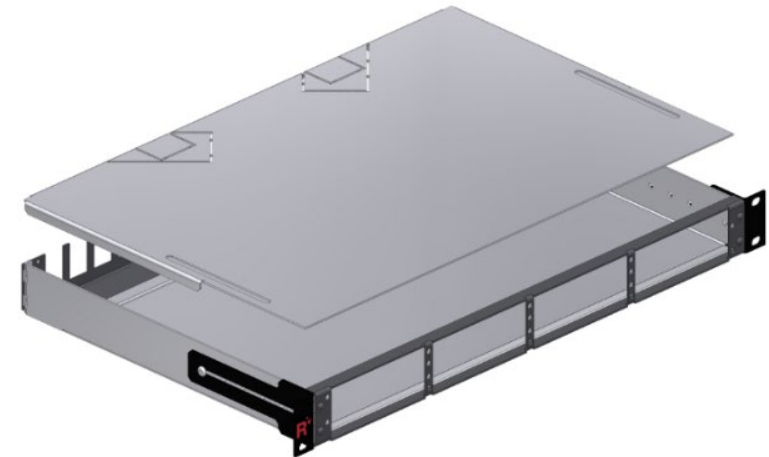
Properties:

- Fitting in SMAP-G2 UHD panel with 4/4 width partition
- 6 port RJ45 Cat. 6A
- Height: 1/2 HU
- Width: 1/4
- Toolless placement of the module cassettes into the panel from the front side, fixing with quick fasteners
- Inclusive 2 m long grounding cable to connect the PFP, grounding cable is to be routed out of the panel through its back plane and attached at the grounding point of the rack
- Material and colour: steel powder coated RAL9005 black

Part number RAL9005 black: 170H5000

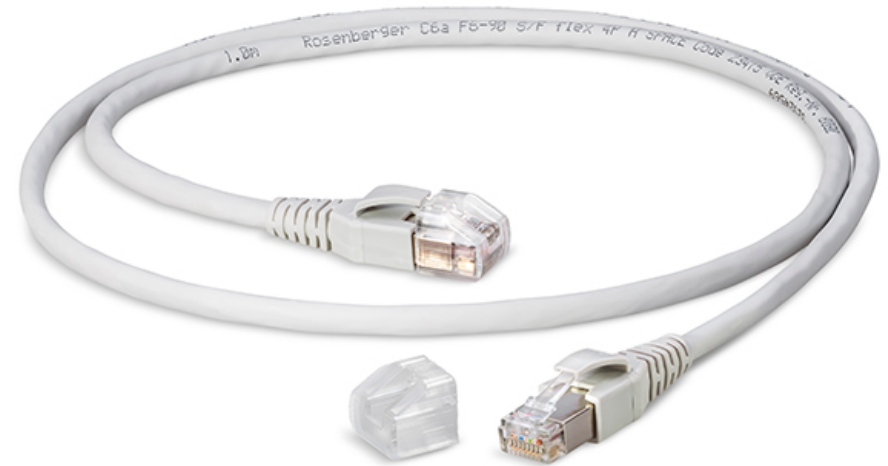
Fixing of PreCONNECT® COPPER HD trunks at panel back plane using PreCONNECT® universal cable fixture. For cable diameters 6 to 18 mm.

Part number set incl. two cable ties: 111A0650



RJ45 Cat. 6A patchcords:

- Cat. 6A ISO/IEC
- Polarity 1:1 TIA 568 B
- Applicable for PoE+
- Shielded RJ45 connectors with 2 component boot with latch protection and protective cap on both sides.
- Cable type: Cat.7, S/FTP, flex, 4 foil-screened AWG27/7 pairs,
- Up to 900 MHz, FRNC-LSZH, diameter 5.7mm, color grey
- Other lengths, colors and types on request
- GHMT PVP certificate no.: c5877X-XX



Length	Part numbers
1 meter	820A1019M-1
2 meter	820A1019M-2
3 meter	820A1019M-3
5 meter	820A1019M-5
10 meter	820A1019M-10

On request:

RJ45 Cat. 6A patchcord, AWG26/7 = 5.8mm, with RJ45 Push-Pull connector



Thin RJ45 Cat. 6A patchcords:

- S/FTP AWG30 = 4.5mm
- S/FTP AWG32 = 4.0mm



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

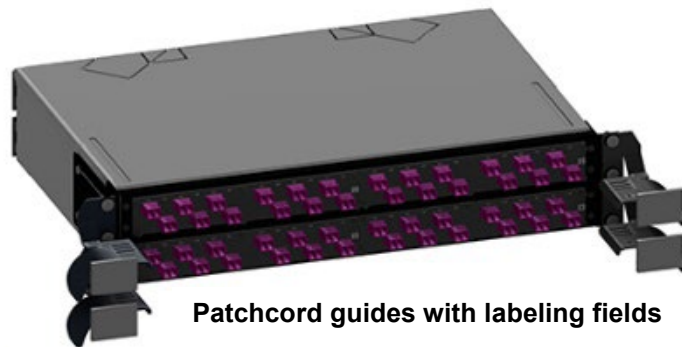


Labeling fields



Patchcord manager

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



Patchcord guides with labeling fields



About Rosenberger OSI:

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

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

www.rosenberger.com/osi

Rosenberger

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Revision 003