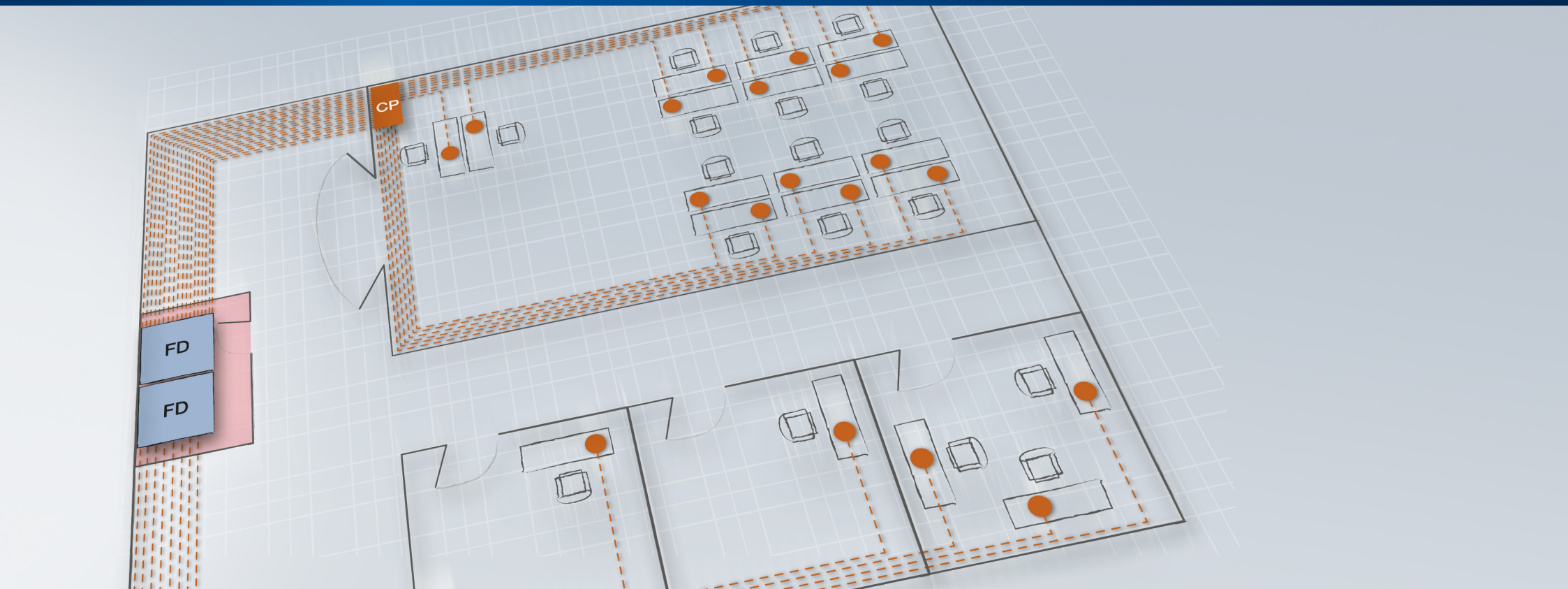
Rosenberger

PreCONNECT® flexNET

PRODUCT INFORMATION



Applications:

PreCONNECT® flexNET is the name given to a modern cabling system for the LAN infrastructure of buildings and office environments that meets the growing demand for flexibility in workplace design.

System consisting of:

- Range of planning and installation services
- State-of-the-art distribution components
- Fiber optic cables pre-assembled on one or two sides with up to 48 fibers
- High-quality copper cabling
- Various 19” panel systems for splice or patch applications
- Wall and free-standing distributors as splice and distribution variants
- Wall and underfloor distributors acting as passive consolidation points
- Connecting sockets and patchcords
- Useful accessories

Characteristics:

End-to-end, fully harmonized and exceptionally flexible cabling system for cabling buildings and offices

- Forward-looking fiber optic technology
- High-quality copper cabling
- Time- and cost-efficient LAN cabling thanks to the use of cables pre-assembled on one or two sides depending on local requirements to offer approx. 15% time saving at the installation site.
- Standards-compliant planning and implementation
- Thanks to the gel-free cables, it is not necessary to clean the fibers when splicing on-site and work is therefore more efficient
- The cables are available in various fire classes (CPR)
- Indoor cables for permanent installation are available ex stock in the highest available fire protection class (B2)

The benefits at a glance:

- Increased flexibility in the spatial layout of workplaces
- Disruption-free extension and restructuring during ongoing business operation possible through the use of passive consolidation points in the tertiary sector close to the endpoints.
- A secure investment as the passive components can be moved to a new site and reused in the event of a relocation
- Time-saving, cost-effective LAN cabling with single and double-sided pre-assembly and cabling design created by experts
- Turnkey solution, planning, installation and documentation from a single source

PreCONNECT® building cabling system

The PreCONNECT® isoNET, PreCONNECT® flexNET, PreCONNECT® smartNET systems are modern, standards-compliant, extendable cabling systems designed to provide a robust, high-performance infrastructure with various levels of flexibility to respond to the challenges brought by the frequent changes that characterize the modern working world.

- In this context, PreCONNECT® isoNET is a conventional cabling solution with state-of-the-art distribution components and, in some cases, pre-assembled fiber optic and copper cabling.
- PreCONNECT® flexNET brings passive distributors (passive copper consolidation points) very close to the endpoints in order to be able to respond optimally to any local redesign in the enterprise's operating processes.
- PreCONNECT® smartNET boosts performance and flexibility by routing optical fibers directly into the office distributors, meaning that it is only here that the layer 2 network is distributed to the local endpoints over very short line lengths.

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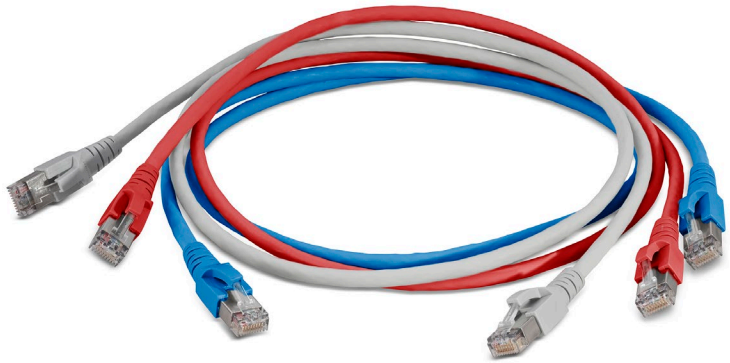
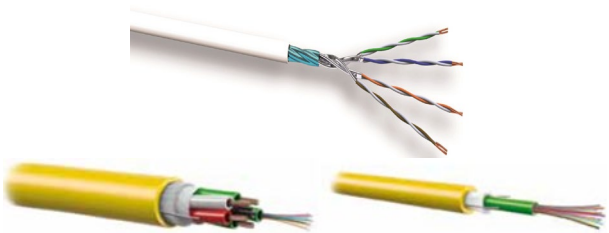


PreCONNECT® flexNET cabling system

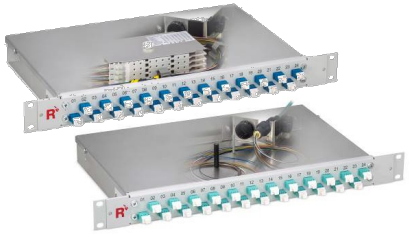
Bulk cabling, fiber optic and copper



19” Cu panels

RJ45 sockets

19” 1HU splice and distribution panel Fixed installation

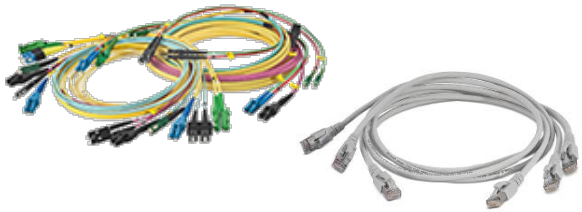


PreCONNECT® flexNET half-trunk - trunk cables

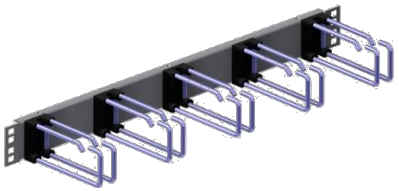
Passive Consolidation Point

Accessories

Patchcords Fiber optic and copper



Highly modular SMAP-G2 19” distribution panel with MTP®/MPO modules



PreCONNECT® flexNET cabling system

Fiber optic splice solution

Other cable variants, e.g. with OM5 or OM2 fibers are available on request

Fiber optic indoor cables

Type: I-B(ZN)BH XXXX/125µm JF
(JF = Gel-free)
Jacket: FRNC-LSZH non-metallic
Rodent protection
CPR B2ca

12 fibers OS2	**024A0014G657A1**
24 fibers OS2	**024A0012G657A1**
12 fibers OM3	**024A0015OM3BI**
24 fibers OM3	**024A0013OM3BI**
12 fibers OM4	**024A0015OM4BI**
24 fibers OM4	**024A0013OM4BI**

Fiber optic indoor cables

Type: I-F(ZN)H XXXX/125µm
Jacket: FRNC-LSZH
3mm

12 fibers OS2	**037A0004G657A1**
24 fibers OS2	**037A0016G657A1**
12 fibers OM3	**037A0001OM3BI**
24 fibers OM3	**037A0004OM3BI**
12 fibers OM4	**037A0001OM4BI**
24 fibers OM4	**037A0004OM4BI**

Fiber optic indoor cables

Type: I-F(ZN)H(ZN)H XXXX/125µm
Jacket: FRNC-LSZH
3/4.5m
CPR Dca

12 fibers OS2	**037A0005G657A1**
12 fibers OM3	**037A0002OM3BI**
12 fibers OM4	**037A0002OM4BI**

PreCONNECT® flexNET cabling system

Fiber optic splice solution

Fiber optic installation cables, universal cables

Type: U-DQ(ZN)BH XX XX/125µm
Jacket: FRNC-LSZH with rodent protection

12 fibers OS2	**030A0010G657A1**
24 fibers OS2	**030A0016G657A1**
48 fibers OS2	**030A0025G657A1**
12 fibers OM3	**030A0110OM3BI**
24 fibers OM3	**030A0116OM3BI**
48 fibers OM3	**030A0125OM3BI**
12 fibers OM4	**030A0110OM4BI**
24 fibers OM4	**030A0116OM4BI**
48 fibers OM4	**030A0125OM4BI**

Fiber optic installation cables, outdoor cables

Type: A-DQ(ZN)B2Y XX XX/125µm
Jacket: PE with rodent protection

12 fibers OS2	**010A0010**
24 fibers OS2	**010A0016**
48 fibers OS2	**010A0025**
12 fibers OM3	**010A0110OM3BI**
24 fibers OM3	**010A0116OM3BI**
12 fibers OM4	**010A0110OM4BI**
24 fibers OM4	**010A0116OM4BI**

PreCONNECT® flexNET cabling system

Fiber optic splice solution

19” splice panel, 1 HU LC duplex

RAL 7035, panel for fixed installation
Aluminium body

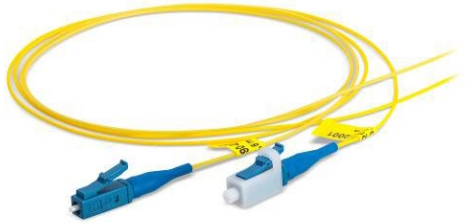
Ready for splicing with splice cassettes with pigtail fibers and fiber optic adapters pre-assembled ex works

12 fibers OS2	**231L0353**
24 fibers OS2	**231L0355**
48 fibers OS2	**231L0358**
12 fibers OM3	**231L1323OM3**
24 fibers OM3	**231L1325OM3**
48 fibers OM3	**231L1328OM3**
12 fibers OM4	**231L1323OM4**
24 fibers OM4	**231L1325OM4**
48 fibers OM4	**231L1328OM4**

Fiber optic buffered fiber pigtail

Connector system: LC, OS2
Cable type: I-VH 1 X/125µm,
Buffered fiber
Length: 2 m

9µm OS2	**087L1743**
50µm OM3	**087L1744OM3**
50µm OM4	**087L1744OM4**



Factory-assembled splice cassette

with 12 fibers X/125µm, buffered fiber
Connector system: LC-Simplex
Length: 2 m
without splice accessories

12 fibers OS2	**117L7000G657A1**
12 fibers OM3	**117L7001OM3**
12 fibers OM4	**117L7001OM4**

PreCONNECT® flexNET cabling system

Universal panel 360x254x111 mm

Splice panel, patchfield inside
Connector system: LCD/LCD
Plastic, colour: RAL 7035 light grey

24 fibers OS2	**118L4302**
48 fibers OS2	**118L4303**
24 fibers OM3	**118L4304OM3**
48 fibers OM3	**118L4305OM3**
24 fibers OM4	**118L4304OM4**
48 fibers OM4	**118L4305OM4**

Mini-universal box splice panel

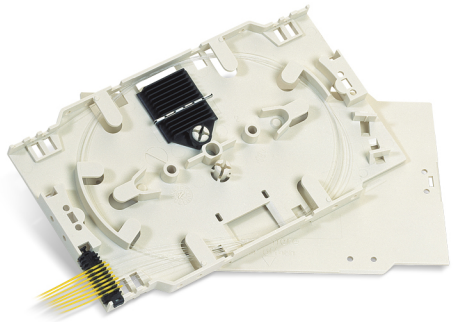
Connector system: LC duplex
incl. splice cassette and set of pigtails
without splice holders and protectors
Plastic, RAL 7035 light grey

12 fibers OS2	**114L0681**
12 fibers OM3	**114L0782OM3**
12 fibers OM4	**114L0782OM4**

PreCONNECT® flexNET cabling system

Splice solution for fiber optics

Crimp splice protector	**111A0001**
Crimp splice protector holder	**111A0000**
Shrink splice protector	**111A0003**
Shrink splice protector holder	**111A0002**
Splice cassette	**111A0008**
Cover for splice cassette	**111A0015**
Strain relief for 900µm buffered fiber	**111A0009**



Cable glands PG13.5 for cable diameters 5 – 9 mm	**111A0426**
Cable glands PG16 for cable diameters 7 – 12 mm	**111A0427**
Cable glands PG21 for cable diameters 9 – 16 mm	**111A0402**
Screw plug PG13.5	**111A0430**
Screw plug PG16	**111A0431**
Screw plug PG21	**111A0432**

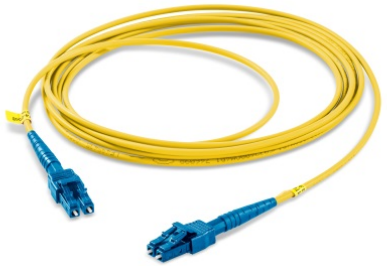
PreCONNECT® flexNET cabling system

Fiber optic distribution solution

Fiber optic duplex patchcords

Connector systems: LC-Compact/LC-Compact
Cable type: I-V(ZN)H2,FRNC-LSZH
Round cable 2.8 mm

OS2, 1 m	**087L6600G657A1-1000**
OS2, 2 m	**087L6600G657A1-2000**
OM3, 1 m	**087L6601OM3-1000**
OM3, 2 m	**087L6601OM3-2000**
OM4, 1 m	**087L6601OM4-1000**
OM4, 2 m	**087L6601OM4-2000**



Fiber optic duplex patchcords

Connector systems: LC-Compact/LC-Compact
Cable type: I-V(ZN)H(ZN)H 2,FRNC-LSZH
Double-jacket round cable 2.8/ 5.0 mm

OS2, 5 m	**087L6610G657A1-5000**
OM3, 5 m	**087L6613OM3-5000**
OM4, 5 m	**087L6613OM4-5000**

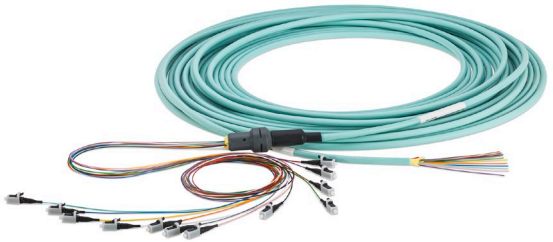
PreCONNECT® Eco half-trunk

Cable type: I-V(ZN)H 12x0.9

Mini breakout

Trunk cable pre-assembled on
both sides available on request.

12 fibers OS2	**032L0904Halbtrunk**
24 fibers OS2	**032L0905Halbtrunk**
12 fibers OM3	**032L0535OM3Halbtrunk**
24 fibers OM3	**032L0538OM3Halbtrunk**
12 fibers OM4	**032L0535OM4Halbtrunk**
24 fibers OM4	**032L0538OM4Halbtrunk**



PreCONNECT® flexNET cabling system

Fiber optic distribution solution

19” PreCONNECT® distribution panel

- 1 HU, RAL 7035, panel for fixed installation
- Aluminium body
- Connector system: LC duplex

12 fibers OS2	**231L0173**
24 fibers OS2	**231L0175**
48 fibers OS2	**231L0177**
12 fibers OM3	**231L1293OM3**
24 fibers OM3	**231L1295OM3**
48 fibers OM3	**231L1298OM3**
12 fibers OM4	**231L1293OM4**
24 fibers OM4	**231L1295OM4**
48 fibers OM4	**231L1298OM4**

Universal panel 360x254x111 mm distribution panel, patchfield inside

- Connector system: LCD/LCD
- Plastic, colour: RAL 7035 light grey

24 fibers OS2	**118L4002**
48 fibers OS2	**118L4003**
24 fibers OM3	**118L4006OM3**
48 fibers OM3	**118L4007OM3**
24 fibers OM4	**118L4006OM4**
48 fibers OM4	**118L4007OM4**

Mini-universal box distribution panel

- Plastic, RAL 7035 light grey
- Connector system: LC duplex

12 fibers OS2	**114L0481**
12 fibers OM3	**114L0582OM3**
12 fibers OM4	**114L0582OM4**

PreCONNECT® flexNET cabling system

MTP®/MPO application:

Patch cord 12F, MTP® half-trunk

- 3.0/4.5 mm
- Trunk cable pre-assembled on both sides available on request.

12 fibers OM3	**080L0766OM3Halbtrunk**
12 fibers OM4	**080L0766OM4Halbtrunk**

Breakout 24F, MTP®12f half-trunk

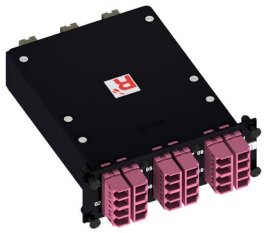
- I-F(ZN)HH2x12, square
- Trunk cable pre-assembled on both sides available on request.

24 fibers OM3	**037L0101OM3Halbtrunk**
24 fibers OM4	**037L0101OM4Halbtrunk**

SMAP-G2 MTP® module 1/4

- 24 fibers
- Front 6 LC-Quad
- Back 2 MTP®-12F (male)
- RAL 9005 black

24 fibers OM3	**170L2002OM3**
24 fibers OM4	**170L2002OM4**



SMAP-G2 empty panel 1 HU

- Empty panel for part front plates or MTP® modules
- RAL 9005 black

171L0001

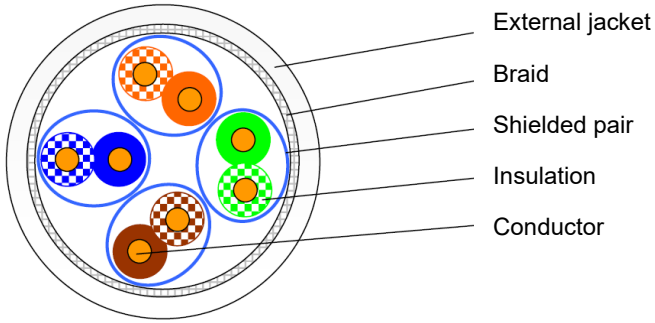
PreCONNECT® flexNET cabling system

Copper solution

Rosenberger OSI cable S/FTP cat.7

4x2xAWG 23/1
1000MHz
FRNC-LSZH
Colour: white
CPR: Dca
Maximum supplied length per VPE: 1000 m
Order numbers:

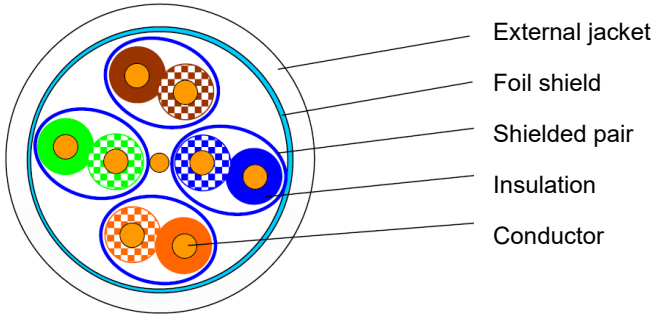
- 1000 m disposable drum: 047A0019-1000
- 500 m disposable drum: 047A0019-500
- 305 m REELEX Box 20-inch 047A0019-300



Rosenberger OSI cable F/FTP cat.6A

4x2xAWG 23/1
500MHz
FRNC-LSZH
Colour: White
CPR: Dca
Maximum supplied length per VPE: 1000 m
Order numbers:

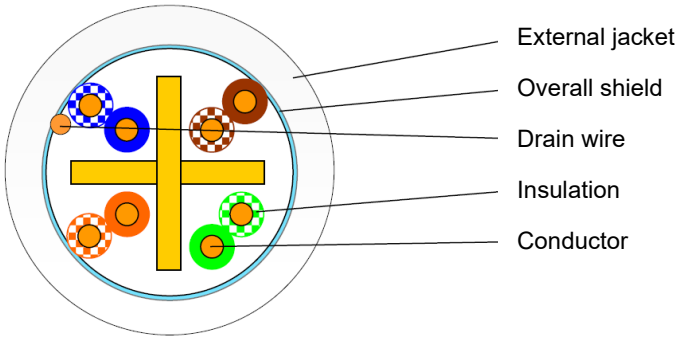
- 1000 m disposable drum: 047A0022-1000
- 500 m disposable drum: 047A0022-500
- 305 m REELEX Box 20-inch 047A0022-300



Rosenberger OSI cable F/UTP cat. 6A

4x2x AWG 23/1
500MHz
FRNC-LSZH
Colour: white
CPR: Dca
Order numbers:

- 1000 m disposable drum: 047A0025-1000
- 500 m disposable drum: 047A0025-500
- 305 m REELEX Box 20-inch 047A0025-300



PreCONNECT® flexNET cabling system

Copper solution

19” copper panel to accommodate 24 Keystone modules 0.5 HU:

Material: Stainless steel
Depth: 100 mm

Order number: 800A0220

19” copper panel to accommodate 24 Keystone modules 1 HU:

Material: Powder-coated sheet steel
Depth: 150 mm

Order numbers:
RAL 7035 light grey: 800A0213
RAL 9005 black: 800A0214

19” copper panel to accommodate 24 Keystone modules,
30° external cable routing, 1 HU:

Material: Powder-coated sheet steel
Depth: 120 mm

Order numbers:
RAL 7035 light grey: 800A0219
RAL 9005 black: 800A0218

PreCONNECT® flexNET cabling system

Passive copper consolidation point:

Underfloor consolidation point to accommodate max. 24 Keystone modules:

Material: Powder-coated sheet steel
Dimensions (H x D): 45 x 300 mm
incl. 1 HU 10”/19” patchfield 12/24 RJ45 sockets
incl. label strips

Order numbers:

10“ max. 12x RJ45, RAL 7035 light gray:	800A0222
10“ max. 12x RJ45, RAL 9005 black:	800A0224
19“ max. 24x RJ45, RAL 7035 light gray:	800A0226
19“ max. 24x RJ45, RAL 9005 black:	800A0228

Desk consolidation point to accommodate max. 12 Keystone modules:

Material: Hot-dip galvanized sheet steel
Dimensions (H x W x D): 45 x 112
incl. patchfield for 4/6/8/12 RJ45 sockets
incl. label strip

Depth: 150 mm

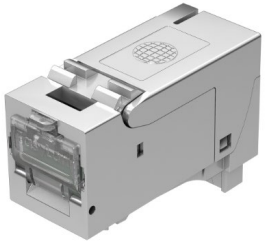
Order numbers:

4x RJ45 RAL 7035 light gray:	800A0232
6 x RJ45 RAL 7035 light gray:	800A0234
8x RJ45 RAL 7035 light gray:	800A0236
12 x RJ45 RAL 7035 light gray:	800A0238

PreCONNECT® flexNET cabling system

Copper solution:

RJ45 Keystone module, cat. 6A screened:



- For AWG24-22 solid wires
- ISO/IEC 11801 and DIN EN 50173-1
- PoE+ DIN IEC 60512-99-011:2013 and DIN IEC 60512-9-3:2010
- Zinc die-casting, silver
- With dust protection flap
- GHMT PVP certificate no.: z4686a-xx-D

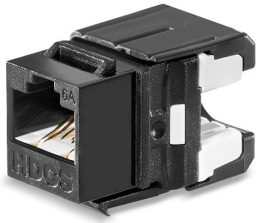
Order number: 800A0002

RJ45 Keystone module, cat. 6 unscreened:

Suitable for AWG26-22 solid wires, black plastic, ivory on request

Order number: 800A0005

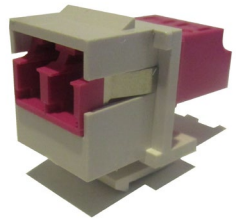
RJ45 Keystone module, cat. 6A unscreened:



Suitable for AWG26-22 solid wires, black plastic, ivory on request

Order number: 800A0006

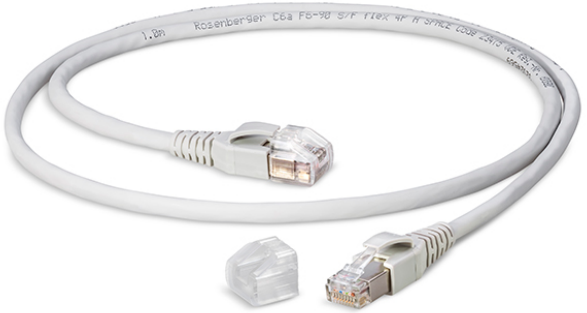
LC-duplex adapters in Keystone adapter frame:



Order numbers:
OM4 violet: 120A0361OM4
SM blue: 120A0360

PreCONNECT® flexNET cabling system

Copper solution:



RJ45 patchcords:

RJ45, patchcord, cat. 6_A screened:

Cat. 6_A ISO/IEC, allocation 1:1, GHMT PVP certificate no.: z4826a-xx-D
RJ45 connector screened on both sides with 2-component kink protection
with engaging lever protection and protective cap
Cable type: Cat.7, S/FTP, flex, 4 PiMF AWG27/7, up to 900 MHz, FRNC-LSZH
Colour: grey
Other lengths, colours and types available on request

Lengths	Order numbers
1 metre	820A1019M-1
2 metres	820A1019M-2
3 metres	820A1019M-3
5 metres	820A1019M-5
10 metres	820A1019M-10

RJ45, patchcord, cat. 6 unscreened:

Cat. 6 ISO/IEC, allocation 1:1
RJ45 connector unscreened on both sides
Cable type: Cat.6 U/UTP 4x2xAWG24/7, FRNC-LSZH
Colour: grey
Other lengths, colours and types available on request

Lengths	Order numbers
1 metres	820A0978M
2 metres	820A0979M
3 metres	820A0980M
5 metres	820A0981M
10 metres	820A0982M

PreCONNECT® flexNET cabling system

Racks & distributors

Racks: Central distributor IP 20:

- Disassemblable steel section rack frame
- Two lateral door inserts with locking mechanism
- Front and back perforated sheet door with three-point locking (free perforated sheet cross-section 80%)
- Possibility of installing a profile half cylinder lock
- 19” level 42 HU, front and back
- Top with cable passage capability and/or installation of fan module
- Base plinth provided separately
- Cover plates in floor area, removable for cable insertion
- For W=800 mm: Metal cable clips 66 mm x 125 mm at front 19” level (set=10 items)
- Earthing set (mounted)
- Set of M5 screws (50 items)

Surface:
Cladding parts/plinth: painted RAL 7035 light grey,
Design sections: painted RAL 3002 crimson red, other colours on request

Type of delivery:
Fully assembled, plinth provided separately

RAL 7035 light grey: 142A5001

PreCONNECT® flexNET cabling system

Racks & distributors

Floor distributor: 19” free-standing distributor

- Developed for flexible use in the office environment
- Optimum, rapid access thanks to the removable cladding parts
- Stable, welded frame construction
- Panel combination: D=700 mm, W=600 mm
- Pre-perforated areas for the insertion of cables in the top and base sections
- Possibility of housing a fan module in the top and base sections
- Two-way door hinges
- Doors with swivel handle, possibility of incorporating DIN profile half cylinder locks
- Cover and side panels with turnbuckle-type fast-locking mechanisms
- Many different possible configurations
- Large range of accessory parts

Technical information
Material: Sheet steel, Aluminium cover
Surface: Powder-coated, RAL 7035 light grey
Side panels in RAL 7037 dust-grey

Type of delivery:
Assembled

9 HU RAL 7035 light grey 142A5011
15 HU RAL 7035 light grey 142A5012
19 HU RAL 7035 light grey 142A5013

PreCONNECT® flexNET cabling system

Racks & distributors

Floor distributor: Wall distributor

- Protection type IP 54
- Visually attractive panel
- Space-saving construction
- Stable basic construction
- 2 doors with swivel handle lock and three-point locking
- Integrated viewing window on one side
- Removable front cover
- Doors with 1800-hinges for optimum accessibility
- Profile half cylinder lock: Two-way key bit 5 mm
- Integrated cable flange plates
- Installation dimensions as per IEC 60297-3-100
- Integrated outlet filter (IP 54) for fan installation

LAN wall distribution panel, 4 HU

Dimensions: H=230 mm, W=506 mm, D=536 mm
With 19” level, 4 HU, aligned vertically with the supporting wall.

4 HU RAL 7035 light grey 142A5021

LAN wall distribution panel, 6 HU

Dimensions: H=360 mm, W=557 mm, D=636 mm
With 19” level, 6 HU, aligned vertically with the supporting wall.

6 HU RAL 7035 light grey 142A5022

PreCONNECT® flexNET cabling system

Racks & distributors

Floor distributor: Wall distributor 9-19 HU

- Developed for flexible use in the office environment
- Optimum, rapid access thanks to the removable cladding parts
- Stable, welded frame construction
- Panel combination: D=400 mm, W=600 mm
- Pre-perforated areas for the insertion of cables in the top and base sections
- Possibility of housing a fan module in the top and base sections
- Two-way door hinges
- Doors with swivel handle, possibility of incorporating DIN profile half cylinder locks
- Cover and side panels with turnbuckle-type fast-locking mechanisms
- Many different possible configurations
- Large range of accessory parts

Technical information
Material: Sheet steel, Aluminium cover
Surface: Powder-coated, RAL 7035 light grey
Side panels in RAL 7037 dust-grey

Type of delivery:
Assembled

9 HU RAL 7035 light grey 142A5023
15 HU RAL 7035 light grey 142A5024
19 HU RAL 7035 light grey 142A5025

PreCONNECT® flexNET cabling system

Accessories:

Universal cable support for PreCONNECT® square interface

111L0650

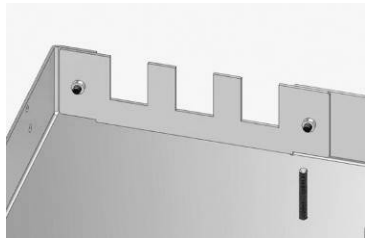
For supporting cables of all types in the “PreCONNECT® way”,
Tool-free installation with simple insertion.
Suitable for cable diameters from 6 mm to 18 mm

Support for 6 cable glands up to PG 16

111L0417

Support for 6 PreCONNECT® trunks

111L0425



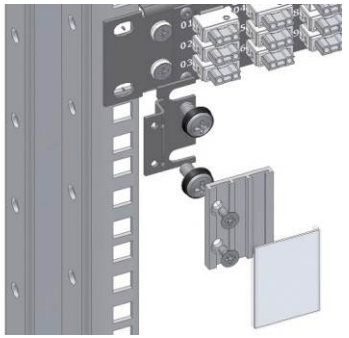
PreCONNECT® flexNET cabling system

Accessories:

19” 1 HU labelling field

171A0002

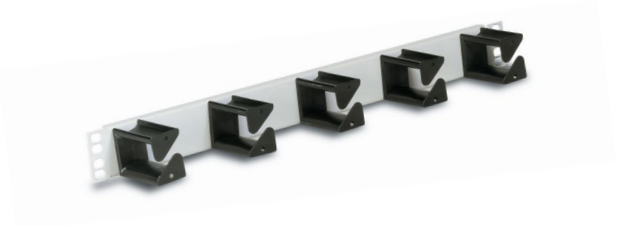
- Powder-coated steel sheet, RAL 9005 black



19” 1 HU patchcord guide

111A0450

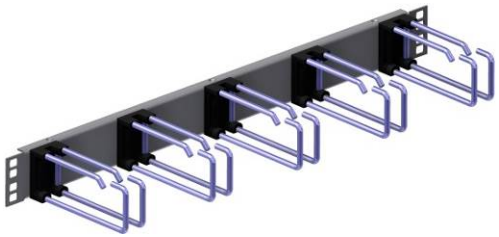
- Powder-coated steel sheet, RAL 7035 light grey
- Cable clip, PA black, L=56 mm



19” 1 HU patchcord guide

111A0469

- Powder-coated steel sheet, RAL 7035 light grey
- Cable clip, metal, L=110 mm



PreCONNECT® flexNET cabling system

Accessories:

Keystone connecting socket 45x45 mm
1 port unoccupied, pure white — **114L1001**

- Insertion direction of module, inclined approx. 30° downwards

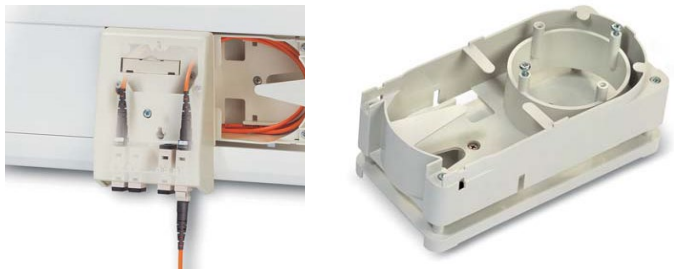
Keystone connecting socket 45x45 mm
2 port unoccupied, pure white — **114L1002**

- Insertion direction of module, inclined approx. 30° downwards

Keystone connecting socket 80x80 mm 1 port unoccupied, pure white — **114L1011**

Keystone connecting socket 80x80 mm 2 port unoccupied, pure white — **114L1012**

Connecting socket 4x LCD, 9µm pure white UP — **114L0041**
Connecting socket 4x LCD, 50µmOM3 pure white UP — **114L0102OM3**
Connecting socket 4x LCD, 50µmOM4 pure white UP — **114L0102OM4**



Connecting socket 4x LCD, 9µm pure white AP — **114L0161**
Connecting socket 4x LCD, 50µmOM3 pure white AP — **114L0212OM3**
Connecting socket 4x LCD, 50µmOM4 pure white AP — **114L0212OM4**

Cable reserve 50 mm — **114L0320**

About Rosenberger OSI

Ever since 1991, Rosenberger Optical Solutions & Infrastructure (Rosenberger OSI) has been an acknowledged expert in the field of optical fiber-based connection technology, cabling solutions and infrastructure services for datacenters, LANs, wireless networks and industrial applications.

As an integrated solution provider, we have considerable development expertise and excel in the operational production of system solutions for communications networks. Our comprehensive services permit the secure, efficient operation of digital infrastructures. This combination combined with our commitment to our customers makes us unique and a strong partner in the global market.

Since 1998, Rosenberger OSI has been part of the globally active Rosenberger Group, one of the world's leading suppliers of high-frequency, high-voltage and fiber-optic connection solutions which has its head office in Germany.

You can find further information at www.rosenberger.com/osi

Rosenberger

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