# PRODUCTPROFILE

## Catalogue number: 024A0108G657A1

Partnumber:

747966

PreCONNECT® STANDARD TRUNK 72 channels, 144 fibers, 9/125µm, yellow Connector side A: LC-Compact SM Connector side B: LC-Compact SM Cable I-B(ZN)BH12x12E9/125µmG657A1



#### **Related documents:**

DS\_FASER G657A1\_OE DS\_I-BZNBHNX12\_B2\_L\_OE PRECONNECT\_STANDARD\_OE Fiber Data Sheet Kabeldatenblatt Product Information



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## **Technical Data Sheet**

# Rosenberger

# Optical fiber G.657.A1/G.652.D

### 059A0478

| Transmission | characteristics |
|--------------|-----------------|
|              |                 |

#### Attenuation:

| Cabled fiber tight buffered: | @ 1310 nm max. 0.38 dB/km<br>@ 1550 nm max. 0.28 dB/km                                                                                        |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Cabled fiber loose tube:     | @ 1310 nm max. 0.36 dB/km<br>@ 1550 nm max. 0.22 dB/km                                                                                        |
| Uncabled fiber:              | @ 1310 nm max. 0.32 dB/km<br>@ 1383 nm max. 0.32 dB/km<br>@ 1490 nm max. 0.21 dB/km<br>@ 1550 nm max. 0.18 dB/km<br>@ 1625 nm max. 0.20 dB/km |

 $\label{eq:macrobending, induced attenuation, uncabled fiber: Radius 10 mm, 1 turn, @ 1550 nm <math display="inline">\leq$  0.50 dB Radius 10 mm, 1 turn, @ 1625 nm  $\leq$  1.50 dB Radius 15 mm, 10 turns, @ 1550 nm . 0.05 dB Radius 15 mm, 10 turns, @ 1625 nm  $\leq$  0.30 dB Radius 25 mm, 100 turns, @ 1310, 1550 und 1625 nm  $\leq$  0.01 dB

#### Dispersion:

| @ 1285 - 1330 nm | ≤ 3.0 ps/(nm*km)  |
|------------------|-------------------|
| @ 1550 nm        | ≤ 18.0 ps/(nm*km) |
| @ 1625 nm        | ≤ 22.0 ps/(nm*km) |

<u>Polarization Mode Dispersion (PMD):</u> PMD Link Design Value ≤ 0.04 ps/√km Maximum individual fiber PMD ≤ 0.1 ps/√km

Cut-off-Wavelength: ≤ 1260 nm

#### Effective group index of refraction: @ 1310 nm 1.4676

@ 1550 nm 1.4682

Backscatter attenuation @ 1ns pulse width: @ 1310 nm -77 dB

@ 1550 nm -82 dB @ 1625 nm -83 dB

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft           | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Approved                          | Date     |    | Rev.   | Engineering change number | Name        | Date     |  |  |  |  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----|--------|---------------------------|-------------|----------|--|--|--|--|
| H. Jungbäck     | 12-04-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | P. Maier                          | 12-04-15 |    | 001    | without                   | H. Jungbäck | 12-04-15 |  |  |  |  |
| Tel.:+49 821 24 | Rosenberger OSI GmbH & Co. OHG         I2-04-15         001         without         H. Jungback         I2           Tel.:+49 821 249249-0         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I |                                   |          |    |        |                           |             |          |  |  |  |  |
| www.rosenberge  | er.com/osi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>i;</u> E-Mail: <u>info-osi</u> | @rosenbe | rg | er.com | <u>l</u>                  |             | 2/2      |  |  |  |  |

PreCONNECT® STANDARD

# PRODUCT INFORMATION



#### **PreCONNECT® STANDARD solution is available in two end face quality features: BASIC and PURE**

Define the end-face quality according to your application requirements:

# PreCONNECT®

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

- The PreCONNECT<sup>®</sup> 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 <u>random mate</u> 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: XXXAXXXX*P)

(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 cabling within data centers, office buildings and campus

#### System consists of:

- Factory assembled FO loose tube cables, FRNC-LSZH indoor, universal and HDPE outdoor cables, up to 144 fibers
- With connector systems LC, MDC, SC and E-2000<sup>®</sup>

#### Features:

- For larger numbers of fibers and longer lengths:
  - Trunks up to 144 fibers
  - Up to 24 fibers practical lengths: Cost comparison by break-even calculation versus PreCONNECT® BREAKOUT
- Migration to MPO based parallel optics applications possible by using migration-harnesses



#### Your benefits at a glance:

- Most cost-effective solution for trunks larger 24 fibers and long lengths
- Fast and safe installation trough factory assembled plug & play systematic
- Highest quality and cost-efficiency through factory assembling
- PreCONNECT<sup>®</sup> cabling systems consist of perfectly harmonized modular single components

#### **Applications:**

Infrastructure cabling of data centers, office buildings and campus.

- Universal to use FO cabling system up to 144 fibers per trunk
- Cost and attenuation optimized
- Focused on the useful and necessary

#### System description:

Our PreCONNECT® STANDARD cabling system consists of:

- Trunk called factory assembled FO loose tube cables up to 144 fibers, with "standard stepped" connector legs
- therefore, explicitly developed 19" panel systems
- a large variety of patchcords and accessories
- and patch location racks

Rosenberger OSI brought already 1991 high fibercount factory assembled FO trunk cables to the market. PreCONNECT<sup>®</sup> STANDARD was the first in Europe developed and manufactured, high fibercount and modular "plug & play" FO cabling system.

#### **Properties:**

Both cable ends of the PreCONNECT<sup>®</sup> STANDARD trunks are molded within the cable dividers and assembled with "standard stepped" connector legs. The "standard stepped" connector legs are fitting for all PreCONNECT<sup>®</sup> panel systems.

The PreCONNECT<sup>®</sup> 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<sup>®</sup> square interface, the cable divider can be tool-less hooked into PreCONNECT<sup>®</sup> panels for tensile and torsion resistant fixing of the trunks.

**Installation protection**: The connector legs and cable dividers are equipped with 600 N tensile strength, crush resistant, kink and torsion resistant, installation tubes. Alternatively indoor IP50 dust-proof or outdoor IP67 water-proof deliverable.

**Polarity:** The connector legs are alpha numerical uniquely coded. The standard polarity is "channelwise crossed" (pairwise flipped) for full-duplex transmission systems – A1 to B1, A2 to B2, etc. On request "uncrossed" deliverable.





#### **Properties:**

#### Length definition:

- Order-length = length between the connectors of the longest legs at both sides, not between the PreCONNECT<sup>®</sup> cable dividers.
- 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 and return loss measured acc. to IEC 61300-3-4, method B, MM 850/1300nm and SM 1310/1550nm, with measurement protocol
- Product label with serial number at both sides

| Standard s<br>of PreCONNEC                                                              | CT <sup>®</sup> STANI                                                        | DARD trur     | ıks, all typ | es of conr  | nectors ex |           |           |           |           |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------|--------------|-------------|------------|-----------|-----------|-----------|-----------|
|                                                                                         | Steps                                                                        | channel/fi    | ber 1 to n   | : 1 = long, | n = short  |           |           |           |           |
| Number of channels/fibers                                                               | Number of channels/fibers 4/8 6/12 8/16 12/24 18/36 24/48 36/72 48/96 72/144 |               |              |             |            |           |           |           |           |
| "A" leg lenths stepped from to [cm] <sup>1</sup>                                        | 45 to 75                                                                     | 45 to 75      | 45 to 73     | 45 to 89    | 45 to 70   | 45 to 89  | 45 to 70  | 45 to 70  | 45 to 75  |
| "E" leg lenths stepped from to [cm] <sup>1</sup>                                        | 77 to 107                                                                    | 77 to 107     | 77 to 105    | 77 to 121   | 77 to 102  | 77 to 121 | 77 to 102 | 77 to 102 | 77 to 107 |
| Outer diameter installation tube<br>IP50 Indoor and IP67 Outdoor [mm]303030304040557575 |                                                                              |               |              |             |            |           |           |           |           |
| <sup>1)</sup> Production tolerance – 5 cm / <sup>2)</sup> Installation tu               | ube diameter                                                                 | of trunks wit | h SC-Duplex  | on request  | •          | •         | •         | •         | •         |

#### **Properties:**

#### Trunk cable types:

PreCONNECT<sup>®</sup> STANDARD trunks are deliverable with all common loose tube cables up to 144 fibers, mostly used:

- Indoor cable I-B(ZN)BH, CPR class B2ca
- Universal cable U-DQ(ZN)BH, CPR class Dca or Cca dependent on stock
- Outdoor cable A-DQ(ZN)B2Y

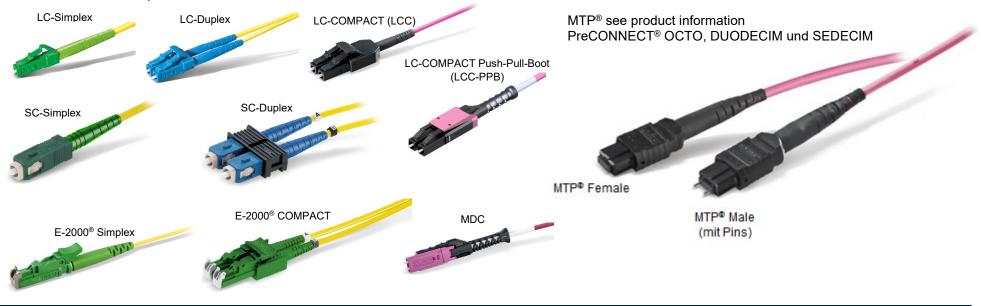
Cable data, see separate cable data sheets.

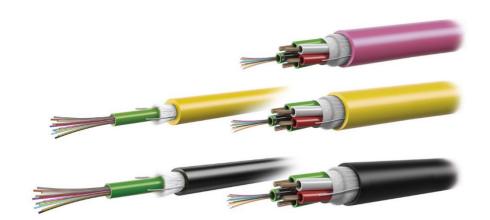
#### Fiber types:

With all common fiber types deliverable. Bend-insensitive fibers by default. Fiber data, see separate fiber data sheets.

#### **Connector types:**

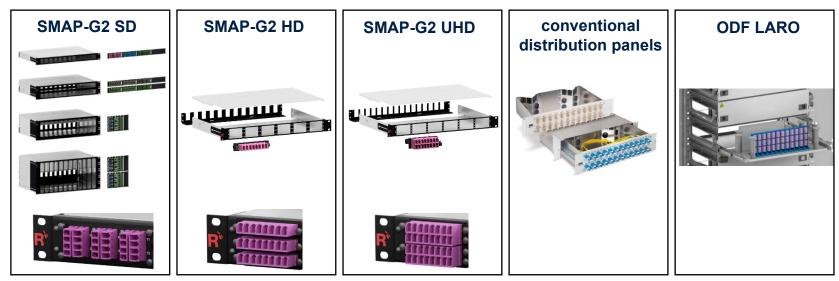
With all common connector types deliverable. Connector data, see separate connector data sheets.





# Application of PreCONNECT<sup>®</sup> STANDARD Trunks and Patchcords with LC-COMPACT (LCC) and LC-COMPACT Push-Pull-Boot (LCC-PPB) in our 19" panel systems and Trunk leg lengths:

| 19" panel systems | LC-Duplex port<br>density per HU | Trunks with<br>LCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Trunks with<br>LCC-PPB | Patchcords with<br>LCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Patchcords with<br>LCC-PPB | Trunk leg lengths                   |
|-------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| SMAP-G2 SD        | 48                               | $\checkmark$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ×                      | <ul> <li>Image: A set of the set of the</li></ul> | ×                          |                                     |
| SMAP-G2 HD        | 72                               | <ul> <li>Image: A second s</li></ul> | recommended            | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 🗸 required                 | standard stepped<br>"A length legs" |
| SMAP-G2 UHD       | 96                               | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | required               | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | required                   | Alengui legs                        |
| Conventional      | 24                               | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ×                      | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ×                          | standard stepped<br>"A length legs  |
| ODF LARO          | 144 in 5 ETSI HU                 | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | recommended            | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ✓ required                 | extended stepped<br>"E length legs" |



LC-COMPACT (LCC)

PreCONNECT<sup>®</sup> STANDARD trunks with indoor cable I-B(ZN)BH CPR class B2ca:







| Channels/ | Connectors on |                 | pped "A length legs"<br>AP and conventional |             | With extended stepped "E length legs" compatible to<br>ODF LARO panels |                |             |
|-----------|---------------|-----------------|---------------------------------------------|-------------|------------------------------------------------------------------------|----------------|-------------|
| Fibers    | both sides    | SM PC 0°        | SM APC 8°                                   | OM4         | SM PC 0°                                                               | SM APC 8°      | OM4         |
|           | LCC           | 024A0195G657A1  | 024A0143G657A1                              | 024A0142OM4 | 024E0195G657A1                                                         | 024E0143G657A1 | 024E0142OM4 |
| 6/12      | LCC-PPB       | 024A0225G657A1  | 024A0226G657A1                              | 024A0227OM4 | 024E0225G657A1                                                         | 024E0226G657A1 | 024E0227OM4 |
|           | MDC           | on request      | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | LCC           | 024A01187G657A1 | on request                                  | 024A0188OM4 | on request                                                             | on request     | on request  |
| 8/16      | LCC-PPB       | on request      | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | 024A0260G657A1  | auf Anfrage                                 | 024A0259OM4 | on request                                                             | on request     | on request  |
|           | LCC           | 024A0175G657A1  | 024A0144G657A1                              | 024A0127OM4 | 024E0175G657A1                                                         | 024E0144G657A1 | 024E0127OM  |
| 12/24     | LCC-PPB       | 024A0228G657A1  | 024A0229G657A1                              | 024A0230OM4 | 024E0228G657A1                                                         | 024E0229G657A1 | 024E0230OM  |
|           | MDC           | 024A0244G657A1  | on request                                  | 024A0261OM4 | on request                                                             | on request     | on request  |
|           | LCC           | 024A0163G657A1  | on request                                  | 024A0165OM4 | on request                                                             | on request     | on request  |
| 16/32     | LCC-PPB       | on request      | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | 024A0262G657A1  | on request                                  | 024A0263OM4 | on request                                                             | on request     | on request  |
|           | LCC           | 024A0100G657A1  | on request                                  | 024A0101OM4 | on request                                                             | on request     | on request  |
| 18/36     | LCC-PPB       | on request      | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | on request      | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | LCC           | 024A0102G657A1  | 024A0126G657A1                              | 024A0103OM4 | 024E0102G657A1                                                         | 024E0126G657A1 | 024E0103OM  |
| 24/48     | LCC-PPB       | 024A0231G657A1  | 024A0232G657A1                              | 024A0233OM4 | 024E0231G657A1                                                         | 024E0232G657A1 | 024E0233OM  |
|           | MDC           | 024A0246G657A1  | on request                                  | 024A0247OM4 | on request                                                             | on request     | on request  |

PreCONNECT<sup>®</sup> STANDARD trunks with indoor cable I-B(ZN)BH CPR class B2ca:







| Channels/ | Connectors on |                | pped "A length legs"<br>AP and conventional |             | With extended stepped "E length legs" compatible to<br>ODF LARO panels |                |             |
|-----------|---------------|----------------|---------------------------------------------|-------------|------------------------------------------------------------------------|----------------|-------------|
| Fibers    | both sides    | SM PC 0°       | SM APC 8°                                   | OM4         | SM PC 0°                                                               | SM APC 8°      | OM4         |
|           | LCC           | 024A0161G657A1 | on request                                  | 024A0164OM4 | on request                                                             | on request     | on request  |
| 32/64     | LCC-PPB       | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | 024A0256G657A1 | on request                                  | 024A0248OM4 | on request                                                             | on request     | on request  |
|           | LCC           | 024A0174G657A1 | 024A0176G657A1                              | 024A0105OM4 | on request                                                             | on request     | on request  |
| 36/72     | LCC-PPB       | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | LCC           | 024A0106G657A1 | 024A0128G657A1                              | 024A0107OM4 | 024E0106G657A1                                                         | 024E0128G657A1 | 024E0107OM  |
| 48/96     | LCC-PPB       | 024A0234G657A1 | 024A0235G657A1                              | 024A0236OM4 | 024E0234G657A1                                                         | 024E0235G657A1 | 024E0236OM  |
|           | MDC           | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | LCC           | 024A0183G657A1 | on request                                  | 024A0162OM4 | on request                                                             | on request     | on request  |
| 64/128    | LCC-PPB       | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |
|           | MDC           | 024A0258G657A1 | on request                                  | 024A0257OM4 | on request                                                             | on request     | on request  |
|           | LCC           | 024A0108G657A1 | 024A0129G657A1                              | 024A0109OM4 | 024E0108G657A1                                                         | 024E0129G657A1 | 024E0109OM4 |
| 72/144    | LCC-PPB       | 024A0237G657A1 | 024A0238G657A1                              | 024A0239OM4 | 024E0237G657A1                                                         | 024E0238G657A1 | 024E0239OM  |
|           | MDC           | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |

PreCONNECT<sup>®</sup> STANDARD trunks with indoor cable I-B(ZN)BH CPR class B2ca:







| Part numb      | bers                        |                              |                                             |             |                |                |                 |
|----------------|-----------------------------|------------------------------|---------------------------------------------|-------------|----------------|----------------|-----------------|
| Channels/      | Connectors on               |                              | pped "A length legs"<br>AP and conventional |             |                |                | ' compatible to |
| Fibers         | both sides                  | SM PC 0°                     | SM APC 8°                                   | OM4         | SM PC 0°       | SM APC 8°      | OM4             |
| 6/10           | SC-Duplex                   | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 6/12           | E-2000 <sup>®</sup> Simplex | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 12/24          | SC-Duplex                   | 024A0179G657A1               | on request                                  | 024A0178OM4 | 024E0179G657A1 | on request     | 024E0178OM4     |
| 12/24          | E-2000 <sup>®</sup> Simplex | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 24/48          | SC-Duplex                   | 024A0147G657A1               | 024A0177G657A1                              | 024A0169OM4 | 024E0147G657A1 | 024E0177G657A1 | 024E0169OM4     |
| 24/40          | E-2000 <sup>®</sup> Simplex | on request                   | 024A0149G657A1                              | on request  | on request     | 024E0149G657A1 | on request      |
| 48/96          | SC-Duplex                   | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 40/90          | E-2000 <sup>®</sup> Simplex | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 72/144         | SC-Duplex                   | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| 12/144         | E-2000 <sup>®</sup> Simplex | on request                   | on request                                  | on request  | on request     | on request     | on request      |
| Technical data | of connectors, fibers and o | cables on request via the pr | oduct profile of your selecte               | d trunks.   |                |                |                 |

#### PreCONNECT<sup>®</sup> STANDARD trunks with universal cable U-DQ(ZN)BH CPR class Dca or Cca dependent on stock:







| Channels/ | Connectors on               |                | pped "A length legs"<br>AP and conventional |             | With extended stepped "E length legs" compatible to<br>ODF LARO panels |                |             |  |
|-----------|-----------------------------|----------------|---------------------------------------------|-------------|------------------------------------------------------------------------|----------------|-------------|--|
| Fibers    | both sides                  | SM PC 0°       | SM APC 8°                                   | OM4         | SM PC 0°                                                               | SM APC 8°      | OM4         |  |
|           | LCC                         | 031A1800G657A1 | 031A1831G657A1                              | 031A1810OM4 | 031E1800G657A1                                                         | 031E1831G657A1 | 031E1810OM4 |  |
| 6/12      | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 0/12      | SC-Duplex                   | 031A1504G657A1 | on request                                  | 031A1604OM4 | 031E1504G657A1                                                         | on request     | 031E1604OM  |  |
|           | E-2000 <sup>®</sup> Simplex | on request     | 031A1013G657A1                              | on request  | on request                                                             | 031E1013G657A1 | on request  |  |
|           | LCC                         | 031A1801G657A1 | 031A1808G657A1                              | 031A18110M4 | 031E1801G657A1                                                         | 031E1808G657A1 | 031E18110M  |  |
| 12/24     | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 12/24     | SC-Duplex                   | 031A1506G657A1 | on request                                  | 031A1606OM4 | 031E1506G657A1                                                         | on request     | 031E1606OM  |  |
|           | E-2000 <sup>®</sup> Simplex | on request     | 031A1015G657A1                              | on request  | on request                                                             | 031E1015G657A1 | on request  |  |
|           | LCC                         | 031A1803G657A1 | 031A1807G657A1                              | 031A1813OM4 | 031E1803G657A1                                                         | 031E1807G657A1 | 031E1813OM  |  |
| 24/48     | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 24/40     | SC-Duplex                   | 031A1508G657A1 | on request                                  | 031A1608OM4 | 031E1508G657A1                                                         | on request     | 031E1608OM  |  |
|           | E-2000 <sup>®</sup> Simplex | on request     | 031A1016G657A1                              | on request  | on request                                                             | 031E1016G657A1 | on request  |  |
|           | LCC                         | 031A1805G657A1 | on request                                  | 031A1815OM4 | 031E1805G657A1                                                         | on request     | 031E1815OM  |  |
| 49/06     | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 48/96     | SC-Duplex                   | 031A1511G657A1 | on request                                  | 031A16110M4 | 031E1511G657A1                                                         | on request     | 031E1611OM  |  |
|           | E-2000 <sup>®</sup> Simplex | on request     | 031A1009G657A1                              | on request  | on request                                                             | 031E1009G657A1 | on request  |  |
|           | LCC                         | 031A1806G657A1 | on request                                  | 031A1816OM4 | 031E1806G657A1                                                         | on request     | 031E1816OM  |  |
| 70/444    | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 72/144    | SC-Duplex                   | 031A1510G657A1 | on request                                  | 031A1610OM4 | 031E1510G657A1                                                         | on request     | 031E1610OM  |  |
|           | E-2000 <sup>®</sup> Simplex | on request     | 031A1018G657A1                              | on request  | on request                                                             | 031E1018G657A1 | on request  |  |

**PreCONNECT® STANDARD trunks** with outdoor cable A-DQ(ZN)B2Y:



**PreCONNECT® STANDARD Trunks with extended stepped** "E length legs" must be applied in ODF LARO panels.

| Chan-<br>nels/ | Connectors on               |                | pped "A length legs"<br>AP and conventional |             | With extended stepped "E length legs" compatible to<br>ODF LARO panels |                |             |  |
|----------------|-----------------------------|----------------|---------------------------------------------|-------------|------------------------------------------------------------------------|----------------|-------------|--|
| Fibers         | both sides                  | SM PC 0°       | SM APC 8°                                   | OM4         | SM PC 0°                                                               | SM APC 8°      | OM4         |  |
|                | LCC                         | 010A2079G657A1 | on request                                  | 010A2080OM4 | 010E2079G657A1                                                         | on request     | 010E2080OM4 |  |
| 6/12           | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 0/12           | SC-Duplex                   | 010A1504G657A1 | on request                                  | 010A1604OM4 | 010E1504G657A1                                                         | on request     | 010E1604OM4 |  |
|                | E-2000 <sup>®</sup> Simplex | on request     | 010A1013G657A1                              | on request  | on request                                                             | 010E1013G657A1 | on request  |  |
|                | LCC                         | 010A2077G657A1 | on request                                  | 010A2078OM4 | 010E2077G657A1                                                         | on request     | 010E2078OM4 |  |
| 12/24          | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 12/24          | SC-Duplex                   | 010A1506G657A1 | on request                                  | 010A1606OM4 | 010E1506G657A1                                                         | on request     | 010E1606OM4 |  |
|                | E-2000 <sup>®</sup> Simplex | on request     | 010A1015G657A1                              | on request  | on request                                                             | 010E1015G657A1 | on request  |  |
|                | LCC                         | 010A1801G657A1 | on request                                  | 010A1813OM4 | 010E1801G657A1                                                         | on request     | 010E1813OM4 |  |
| 24/48          | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 24/40          | SC-Duplex                   | 010A1508G657A1 | on request                                  | 010A1608OM4 | 010E1508G657A1                                                         | on request     | 010E1608OM4 |  |
|                | E-2000 <sup>®</sup> Simplex | on request     | 010A1016G657A1                              | on request  | on request                                                             | 010E1016G657A1 | on request  |  |
|                | LCC                         | 010A2075G657A1 | on request                                  | 010A2076OM4 | 010E2075G657A1                                                         | on request     | 010E2076OM4 |  |
| 48/96          | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 40/90          | SC-Duplex                   | 010A1511G657A1 | on request                                  | on request  | 010E1511G657A1                                                         | on request     | on request  |  |
|                | E-2000 <sup>®</sup> Simplex | on request     | 010A1009G657A1                              | on request  | on request                                                             | 010E1009G657A1 | on request  |  |
|                | LCC                         | 010A1806G657A1 | on request                                  | 010A1816OM4 | 010E1806G657A1                                                         | on request     | 010E1816OM4 |  |
| 70/11/         | LCC-PPB                     | on request     | on request                                  | on request  | on request                                                             | on request     | on request  |  |
| 72/144         | SC-Duplex                   | 010A1510G657A1 | on request                                  | on request  | 010E1510G657A1                                                         | on request     | on request  |  |
|                | E-2000 <sup>®</sup> Simplex | on request     | 010A1018G657A1                              | on request  | on request                                                             | 010E1018G657A1 | on request  |  |

#### 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: <a href="https://www.rosenberger.com/osi">www.rosenberger.com/osi</a>

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