## PRODUCTPROFILE

## Catalogue number: 037A2076G657A1

Partnumber:
772319

PreCONNECT® OCTO BREAKOUT TRUNK 16 channels, 32 fibers, $9 / 125 \mu \mathrm{~m}$, yellow with square-interfaces Connector side A: MTP OCTO male SM Connector side B: MTP OCTO male SM Cable I-F(ZN)HH4x8E9/125 $\mu \mathrm{m}$,G657A1


## Related documents:

| DS_FASER G657A1_OE | Fiber Data Sheet |
| :--- | :--- |
| DS_I-FZNHHNX8_L_OE | Kabeldatenblatt |
| DS_MTPNX12_STECKER_OE | Steckerdatenblatt |
| PRECONNECT_OCTO_OE | Product Information |


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| :--- | :---: |

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## Standards

## -IEC 60794-2

-EN 50575:2014 +A1:2016 Number of Declaration of Performance:

- Up to 16x8 CDERF0000081-V3
- 18x8 not tested


## Structure

Subcable:
-8 optical fibers within a subcable filled with Aramid strain relief elements,
outer diameter 2.0 mm, numbering 1 to $\mathbf{n}$
-Fiber color code: red, green, blue, yellow, white, grey, brown, violet
-Jacket material FRNC-LSZH flame-retardant and halogen-free, wall thickness 0.25 mm

## Stranding:

-Subcable stranded in one layer over FRP central element
Outer jacket:
-FRNC-LSZH flame-retardant and halogen-free material
-Standard jacket colors:
Singlemode: yellow
Multimode OM2: orange or green
Multimode OM3: aqua (turquoise)
Multimode OM4: violet
Multimode OM5: fibrous green
-Wall thickness 1.0 mm
-Ripcord below jacket
-Inkjet marking black acc. to separate drawing
Geometrical and mechanical properties

| Number of <br> Subcables | Number <br> of fibers | Outer diameter <br> $[\mathrm{mm}]$ | Weight <br> $[\mathrm{kg} / \mathrm{km}]$ | Fire load <br> [MJ/m] | Max. tensile force acc. <br> IEC 60794-1-2 E1 [N] |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 16 | 7.0 | 53 | 0.89 | 300 |
| 3 | 24 | 7.0 | 51 | 0.85 | 300 |
| 4 | 32 | 7.0 | 50 | 0.81 | 400 |
| 6 | 48 | 8.2 | 66 | 1.12 | 500 |
| 8 | 64 | 9.5 | 90 | 1.51 | 550 |
| 9 | 72 | 10.1 | 102 | 1.69 | 550 |
| 12 | 96 | 11.1 | 111 | 1.85 | 600 |
| 16 | 128 | 11.8 | 122 | 1.93 | 800 |
| 18 | 144 | 12.3 | 135 | 2.19 | 800 |


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| Technical Data Sheet | Rosenolerger |
| :--- | :---: |
| Fiber Optic Cable <br> I-F(ZN)HH nx8... 2.0 | 037AXXXX |

## Mechanical properties

-Min. bending radius fixed (static) acc. IEC 60794-1-2 E11A
$10 \times$ outside diameter
-Min. bending radius during installation (dynamic) with additional tensile strain acc. IEC 60794-1-2 E6
$20 \times$ outside diameter
-Max. crush resistance acc. IEC 60794-1-2 E3 long term $=450 \mathrm{~N} / \mathrm{dm}$

## Thermal properties

Transport and storage $\quad-20^{\circ} \mathrm{C}$ to $+\mathbf{7 5}{ }^{\circ} \mathrm{C}$
Installation $\quad-5^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$
In use acc. IEC $60794-1-2$ F1 $-10^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$

## Chemical properties

No resistance to oil, petrol, acid, leach and water

## Fire performance

-Flame-retardant acc. to IEC 60332-1-2 and IEC 60332-3-22 Cat. C
-Smoke density acc. to IEC 61034
-Halogen-free acc. to IEC 60754-1
-Acidity of the combustion gases acc. to IEC 60754-2
-Fire Class according EN 13501-6: Up to $16 \times 8 \mathrm{C}_{\mathrm{cA}} / \mathrm{s} 1 \mathrm{a} / \mathrm{d} 0 / \mathrm{a} 1,18 \times 8$ not tested

## Transmission characteristics

## See fiber data sheets

## Applications

-Breakout indoor cable for installation in raised-floors and cable trays
-Particularly appropriate for short MTP ${ }^{\circledR} / \mathrm{MPO}$ Trunk cables and MTP ${ }^{\circledR}$ /MPO Multijumpers

## Deliveryform

On one-way drums

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| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H. Jungbäck | 2019-02-11 | S. Wiener | 2019-02-11 | 004 | --- | H. Jungbäck | 2022-06-09 |
| Rosenberger OSI GmbH \& Co. OHG Tel.:+49 821 249249-0 <br> www.rosenberger.com/osi; E-Mail: in |  |  |  |  |  |  | Page $2 / 2$ |



## Properties and applications

- MTP ${ }^{\circledR}$ (MPO) multi-fiber connector up to 72 fibers, based on $n \times 12$ fiber MT ferrules, with strain relief and boot for round cable
- Centric coding-key
- Multimode MTP ${ }^{\circledR}$ (MPO) are acc. to world standard PC $0^{\circ}$ polished, Singlemode APC $8^{\circ}$
- Polarity and gender can be changed acc. to USCONEC AEN-1405
${ }^{-1)}$ With MTP ${ }^{\circledR}$ PRO protection cap, debris-repellent (better than anti-static), non-outgassing, halogen-free


## Standards

IEC 61754-7 and EIA/TIA 604-5

## Material

- Ferrule: PPS filled with glass particles
- Body: PBT, flammability UL94-V0
- Boot:

TPO, flammability UL94-V0

- Protection cap

TPO, flammability UL94-V0

## Optical properties

GHMT PVP certificates
No.: c6955X-XX
No.: c6956X-XX
The quality feature of the connector at your product is identified by the part number:

- BASIC: Part numbers like XXXAXXXX
- PURE: Part numbers with "P" at their end, XXXAXXXXP

Details about PURE see Produktinfo_Qualitätsmerkmal-PURE_od
Applied USCONEC ferrule qualities:

|  | Quality features | BASIC |
| :--- | :--- | :--- |
| - Singlemode SM, 9/125 $\mu$ m all numbers of fibers | PURE |  |
| - Multimode OM2, OM3, OM4, OM5, 50/125 $\mu \mathrm{m}$ up to 12 fibers | Standard | Elite |
| - Multimode OM2, OM3, OM4, OM5, $50 / 125 \mu \mathrm{~m}$ larger 12 fibers | Standard | Elite |



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| Technical Data Sheet | RoSeloerger |
| :--- | :--- |
| $M T P^{\circledR}(\mathrm{MPO})$ connector $\mathrm{n} \times 12$ fibers |  |

## Optical properties

Insertion Loss IL quality feature PURE "random mated" application limit value, average value [dB]:
$\begin{array}{ll}\text { - Singlemode SM, } 9 / 125 \mu \mathrm{~m} & 0.15 \\ \text { - Multimode OM2, OM3, OM4, OM5, 50/125 } \mu \mathrm{m} & 0.15\end{array}$
Return Loss RL acc. to IEC61300-3-6, Method 1, against reference, minimum [dB]:

|  | Quality feature | BASIC | PURE |
| :--- | :--- | :--- | :--- |
| - Singlemode SM, $9 / 125 \mu \mathrm{~m}, \mathrm{APC} 8^{\circ}$ | 55 | 70 |  |
| - Multimode all OM classes, PC $0^{\circ}$ | 30 | 30 |  |

## Mechanical properties

- Mating cycles
- Strain relief


## Thermal properties

- Operation temperature range
- Storage temperature range


## Cable diameters

Round cable types

## Colors

Connector body / boot:

- Singlemode SM, $9 / 125 \mu \mathrm{~m}$, APC $8^{\circ}$
- Multimode OM2, OM3, OM4, OM5, 50/125 $\mu \mathrm{m}$
green / black
$\min$. 500, IL increase $<0.2 \mathrm{~dB}$
max. 100 N , dependent on cable type
$-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$, dependent on cable type $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
$\varnothing 2.0$ to 4.5 mm
black / black

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y. Zhang | 2017-03-31 | H. Jungbäck | 2017-03-31 | 005 | --- | H. Jungbäck | 2022-10-07 |

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## Rosenberger

PreCONNECT ${ }^{\circledR}$ OCTO MTP® ${ }^{\circledR}$

PRODUCT INFORMATION


## PreCONNECT ${ }^{\circledR}$ OCTO MTP ${ }^{\circledR}$ solution is available in two end face quality features: BASIC and PURE

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

## PreCONNECT ${ }^{\circledR}$ BASIC

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 ${ }^{\circledR}$ factory-assembled plug \& play system enables quick and reliable, cost efficient, installation and performance
- Harmonized modular components of the quality feature BASIC solution ensure end to end performance of the entire channel


Quality feature PURE is the enhanced version of our quality feature BASIC, but with more stringent defect and cleanliness screening and factory sealed, tamper evident adapter-interfaces.

- Guaranteed protection of the polished connector end-face against contamination and damage through sealed adapter-interfaces, enabling time savings during initial installation and commissioning due to the elimination of the need for cleaning and testing*/**.
- Quality feature PURE provides an industry leading low random mate insertion and return loss (mean) which enables up to six (6) mated pairs in a $10 \mathrm{G} / \mathrm{OM} 4$ application up to 300 m .


## 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 " $\mathbf{P}$ " to the end of the quality feature BASIC part number (Example: $X X X A X X X X \underline{P}$ )
(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 and IT room cabling within data centers

## System consists of:

- Factory assembled fiber optic breakout cables, FRNC-LSZH indoor cables, up to 192 fibers with connector systems MTP® $4+4$ fiber OCTO per MTP ${ }^{\circledR}$ channel - MPO/MTP® Port-breakout with MTP ${ }^{\circledR}$ - LC and MTP ${ }^{\circledR}$ - MDC harnesses, MTP ${ }^{\circledR}$ module cassettes with LC and MDC front, and MTP ${ }^{\circledR}$ - LC Port-Breakout-Units


## Features:

- For all who already have on minimum one cabling side MPO4+4 based parallel optics SR4 and DR4/PSM4 transceivers
- Cost and attenuation optimized for SR4 and DR4/PSM4 applications


## Your benefits at a glance:



- MTP® ${ }^{\circledR}$ cabling system perfectly fitting for SR4 and DR4/PSM4 applications
- Cost reduction through the only for SR4 and DR4/PSM4 needed 8 fibers instead of the so far usual 12 are in one MTP® channel
- Fast and safe installation trough factory assembled plug \& play systematic
- Highest quality and cost-efficiency through factory assembling
- PreCONNECT® ${ }^{\circledR}$ cabling systems consist of perfectly harmonized modular single components


## Application:

MTP ${ }^{\circledR}$ (MPO) based data center cabling with 8 fibers per MTP ${ }^{\circledR}$ channel:

Optimized for parallel optics MPO 4+4 fiber applications:

- 40/100/200 GBASE-SR4
- 400GBASE-SR4.2 BiDi
- $4 \times 16,4 \times 32$ and $4 \times 64$ GFC
- 100GBASE DR4/PSM4
- 200GBASE-DR4
- 400GBASE-DR4
- $4 \times 10$ GBASE-LR


Easy migration to higher speed applications

## System description:

Our PreCONNECT ${ }^{\circledR}$ OCTO cabling system consists of:

- OCTO breakout trunk called factory assembled FO cables with up to 24 SR4 or DR4/PSM4 MTP ${ }^{\circledR}$ channels ( $24 \times 8=192$ fibers).
- 19" panel systems with part front plates with MTP®/MPO adapters, OCTO module cassettes and MTP ${ }^{\circledR}$ - LC Port-Breakout-Units
- OCTO patchcords and harnesses
- Useful accessories
- Patch location racks

Rosenberger OSI brought already 1991 high fibercount factory assembled FO trunk cables to the market. PreCONNECT ${ }^{\circledR}$ STANDARD was the first in Europe developed and manufactured, high fibercount and modular „plug \& play" FO cabling system and already 1997 we have been the first manufacturer of MTP ${ }^{\circledR}$ cabling systems in Europe.

## Properties:

PreCONNECT ${ }^{\circledR}$ square interface and installation protection:
PreCONNECT ${ }^{\circledR}$ OCTO breakout trunks have PreCONNECT ${ }^{\circledR}$ square interfaces on both sides which can be tool-less hooked into the 19" panel systems for tensile and torsion resistant fixing of the trunks.

The trunk connector legs are fitting for the 19" panel systems and are packaged in non-pull resistant dust-proof foil tubes. On request with tensile strength, crush resistant, kink and torsion resistant, installation tubes deliverable.


## Properties:

## Connector types:

- OCTO breakout trunks: MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO male $4+4$ fiber OCTO
- OCTO patchcords, multijumpers, harnesses and module cassettes: MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO female 4+4 fiber OCTO


## Adapter types:

- MTP ${ }^{\circledR}$ multimode: TIA type B "aligned key" „ 1 to 12 " grey
- MTP ${ }^{\circledR}$ singlemode TIA type A "opposed key" „1 to 1" green
- Description of the adapter types $A$ and $B$ see last pages of in this document


## Polarity:

- OCTO breakout trunks: TIA Method B „1 to 12"
- OCTO patchcords, harnesses and module cassettes: see pages of the products

Cable types:

- PreCONNECT® ${ }^{\circledR}$ OCTO breakout trunks: I-F(ZN)H(ZN)H 8 fibers CPR class B2ca and I-F(ZN)HH n x 8 fibers CPR class Cca
- PreCONNECT® OCTO patchcords and harnesses I-F(ZN)H and I-F(ZN)H(ZN)H 8 fibers
- Cable data, see separate cable data sheets

Fiber types:

- Multimode OM4 and OM5 bend-insensitive
- Singlemode G.657.A1 bend-insensitive and backwards compatible to G.652.D
- Fiber data, see separate fiber data sheets

Operating temperature range: $-10^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$

## 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


Info about MTP® PRO
https://www.usconec.com/featured-products/mtp-pro-connectors

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


TIA type A "opposed key" ", to 1" green


I-F(ZN)HH $6 \times 8$ fiber breakout cable



Application of PreCONNECT ${ }^{\circledR}$ OCTO Trunks and Patchcords with MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO in our 19" panel systems and Trunk leg lengths:

| 19" panel systems | MTP ${ }^{\circledR}$ port density per HU | Trunks with MTP ${ }^{\circledR}$ | Trunks with MTP ${ }^{\circledR}$ PRO | Patchcords with MTP ${ }^{\text {® }}$ | Patchcords with MTP ${ }^{\circledR}$ PRO | Trunk leg lengths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SMAP-G2 SD | 48 | $\checkmark$ | X | $\checkmark$ | X | standard stepped "A length legs" |
| SMAP-G2 HD | 72 | $\checkmark$ | recommended | $\times$ | $\checkmark$ required |  |
| SMAP-G2 UHD | 96 | $\times$ | $\checkmark$ required | X | $\checkmark$ required |  |
| Conventional | 24 | $\checkmark$ | X | $\checkmark$ | X | standard stepped "A length legs |
| ODF LARO | 144 in 5 ETSI HU | $\checkmark$ | recommended | X | $\checkmark$ required | extended stepped "E length legs" |



$$
\text { MTP }^{\circledR} \text { female }
$$



MTP ${ }^{\circledR}$ PRO female

https://www.usconec.com/featured-products/mtp-pro-connectors

PreCONNECT ${ }^{\circledR}$ OCTO OM4 and OM5 breakout trunk:
MULTIMODE

- Breakout cable $\mathrm{n} \times 8$ OM4 or OM5 fibers FRNC-LSZH
- MTP ${ }^{\circledR} 4+4$ OCTO, MM, male, Elite quality
- Polarity TIA method B "1 to 12 "
- MTP $^{\circledR}$ leg-length $=$ standard stepped

Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT ${ }^{\circledR}$ square interfaces.
- Possible order-lengths: From 5 to 2000 meter

Part numbers, length variable:

| Number of OCTO channels | Part numbers OM4 | $\begin{gathered} \text { Part numbers } \\ \text { OM5 } \end{gathered}$ | Cable structure | Number of fibers | Cable CPR class |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 037A01100M4 | 037A01100M5 | $1 \times 8$ | 8 | B2ca |
| 2 | 037A2048OM4 | 037A2048OM5 | $2 \times 8$ | 16 | Cca |
| 4 | 037A2049OM4 | 037A2049OM5 | $4 \times 8$ | 32 | Cca |
| 6 | 037A20890M4 | 037A2089OM5 | $6 \times 8$ | 48 | Cca |
| 8 | 037A20500M4 | 037A20500M5 | $8 \times 8$ | 64 | Cca |
| 12 | 037A20510M4 | 037A20510M5 | $12 \times 8$ | 96 | Cca |
| 18 | 037A20880M4 | 037A2088OM5 | $18 \times 8$ | 144 | tbt. |
| 24 | 037A2067OM4 | 037A20670M5 | $24 \times 8$ | 192 | tbt. |



Length tolerance:

| Trunk length | Tolerance |
| :--- | :--- |
| $<=10 \mathrm{~m}$ | $+/-50 \mathrm{~cm}$ |
| $>10 \mathrm{~m}<=30 \mathrm{~m}$ | $+/-100 \mathrm{~cm}$ |
| $>30 \mathrm{~m}<=100 \mathrm{~m}$ | $+/-150 \mathrm{~cm}$ |
| $>100 \mathrm{~m}$ | $+/-2 \%$ |

OM5 is only needed for 400GBASE-SR4.2 BiDi channel lengths 101 to 150 meter. OM5 OCTO trunks are fibrous green.


Connector leg lengths see table at page of SM Breakout-Trunk

PreCONNECT ${ }^{\circledR}$ OCTO OM4 and OM5 breakout trunk:

- Breakout cable n x 8 OM4 or OM5 fibers FRNC-LSZH
- MTP ${ }^{\circledR}$ PRO 4+4 OCTO, MM, male, Elite quality
- Polarity TIA method B "1 to 12"
- MTP ${ }^{\circledR}$ leg-length = standard stepped

Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT ${ }^{\circledR}$ square interfaces.
- Possible order-lengths: From 5 to 2000 meter

Part numbers, length variable:

| Number of OCTO channels | Part numbers OM4 | $\begin{gathered} \text { Part numbers } \\ \text { OM5 } \end{gathered}$ | Cable structure | Number of fibers | Cable CPR class |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | on request | on request | $1 \times 8$ | 8 | B2ca |
| 2 | on request | on request | $2 \times 8$ | 16 | Cca |
| 4 | on request | on request | $4 \times 8$ | 32 | Cca |
| 6 | on request | on request | $6 \times 8$ | 48 | Cca |
| 8 | on request | on request | $8 \times 8$ | 64 | Cca |
| 12 | on request | on request | $12 \times 8$ | 96 | Cca |
| 18 | on request | on request | $18 \times 8$ | 144 | tbt. |
| 24 | on request | on request | $24 \times 8$ | 192 | tbt. |



Connector leg lengths see table at page of SM Breakout-Trunk

MULTIMODE


Length tolerance:

| Trunk length | Tolerance |
| :--- | :--- |
| $<=10 \mathrm{~m}$ | $+/-50 \mathrm{~cm}$ |
| $>10 \mathrm{~m}<=30 \mathrm{~m}$ | $+/-100 \mathrm{~cm}$ |
| $>30 \mathrm{~m}<=100 \mathrm{~m}$ | $+/-150 \mathrm{~cm}$ |
| $>100 \mathrm{~m}$ | $+/-2 \%$ |

OM5 is only needed for 400GBASE-SR4.2 BiDi channel lengths 101 to 150 meter. OM5 OCTO trunks are fibrous green.


## PreCONNECT ${ }^{\circledR}$ OCTO SM breakout trunk:

SINGLEMODE

- Breakout cable n x 8 SM fibers FRNC-LSZH
- MTP ${ }^{\circledR}$ 4+4 OCTO, SM, male, Standard quality
- Polarity TIA method B "1 to 12"
- MTP ${ }^{\circledR}$ leg-length $=$ standard stepped

Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT ${ }^{\circledR}$ square interfaces.
- Possible order-lengths: From 5 to 2000 meter

MTP ${ }^{\circledR} 4+4$ OCTO male (with pins)

Length tolerance:

| Trunk length | Tolerance |
| :--- | :--- |
| $<=10 \mathrm{~m}$ | $+/-50 \mathrm{~cm}$ |
| $>10 \mathrm{~m}<=30 \mathrm{~m}$ | $+/-100 \mathrm{~cm}$ |
| $>30 \mathrm{~m}<=100 \mathrm{~m}$ | $+/-150 \mathrm{~cm}$ |
| $>100 \mathrm{~m}$ | $+/-2 \%$ |

Connector leg lengths:

| Number of <br> OCTO channels | Leg lengths [cm] |
| :---: | :---: |
| 1 | 79 |
| 2 | 79 to 87 stepped |
| 4 | 79 to 95 stepped |
| 8 | 79 |
| 12 | 79 |
| 18 | 79 |
| 24 | 79 |
| Production tolerance $-7 \mathbf{~ c m ~}$ |  |

## PreCONNECT ${ }^{\circledR}$ OCTO SM breakout trunk:

## SINGLEMODE

- Breakout cable n x 8 SM fibers FRNC-LSZH
- MTP ${ }^{\circledR}$ PRO 4+4 OCTO, SM, male, Elite quality
- Polarity TIA method B "1 to 12 "
- MTP® ${ }^{\circledR}$ leg-length $=$ standard stepped

Length definition:

- Order length = length between the connectors of the longest legs at both sides, not between the PreCONNECT ${ }^{\circledR}$ square interfaces.
- Possible order-lengths: From 5 to 2000 meter

MTP® ${ }^{\text {PRO }} 4+4$ OCTO male (with pins)

| Number of OCTO <br> channels | Part numbers | Cable <br> structure | Number of <br> fibers | Cable CPR <br> class |
| :---: | :---: | :---: | :---: | :---: |
| 1 | on request | $1 \times 8$ | 8 | B2ca |
| 3 | on request | $3 \times 8$ | 24 | Cca |
| 4 | on request | $4 \times 8$ | 32 | Cca |
| 6 | on request | $6 \times 8$ | 48 | Cca |
| 8 | on request | $8 \times 8$ | 64 | Cca |
| 12 | on request | $12 \times 8$ | 96 | Cca |
| 18 | on request | $18 \times 8$ | 144 | Cca |

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


Connector leg lengths:

| Number of <br> OCTO channels | Leg lengths [cm] |
| :---: | :---: |
| 1 | 79 |
| 2 | 79 to 87 stepped |
| 4 | 79 to 95 stepped |
| 8 | 79 |
| 12 | 79 |
| 18 | 79 |
| 24 | 79 |
| Production tolerance $-7 \mathrm{~cm}$ |  |

## PreCONNECT ${ }^{\circledR}$ OCTO OM4 and OM5 patchcords:

Single jacket:
Single jacket cable 8 OM4 or OM5 fibers FRNC-LSZH MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO 4+4 OCTO, MM, female, Elite quality Polarity TIA method B "1 to 12 "

| Part numbers, length variable: |  |  |  |
| :--- | :--- | :--- | :---: |
| Cable <br> diameter | MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |  |
| 2.0 mm | 080A2063OM4/080A2063OM5 | on request |  |
| 3.0 mm | 080A2030OM4/080A20300M5 | on request |  |

## Double jacket:



MTP® ${ }^{\circledR}$ PRO 4+4 OCTO female (w/o pins)

## MULTIMODE



OM5 is only needed for 400GBASE-SR4.2 BiDi channel lengths 101 to 150 meter. OM5 OCTO patchcords are fibrous green.

Double jacket cable 8 OM4 or OM5 fibers FRNC-LSZH
Diameter 3.0 / 4.5 mm
MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO 4+4 OCTO, MM, female, Elite quality Polarity TIA method B "1 to 12"

Standard lengths of the 3.0 mm single jacket MTP ${ }^{\circledR}$-legs $=0.5 \mathrm{~m}$, others on request

| Part numbers, length variable: |  |  |
| :--- | :--- | :---: |
| MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |  |
| 080A2031OM4 / 080A2031OM5 | on request |  |



PreCONNECT ${ }^{\circledR}$ OCTO OM4 patchcords are suitable for SR4 MPO4+4 transceiver-transceiver direct-attach.


## PreCONNECT ${ }^{\circledR}$ OCTO SM patchcords:

Single jacket:
Single jacket cable 8 SM fibers FRNC-LSZH MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO 4+4 OCTO, SM, female MTP ${ }^{\circledR}$ Standard quality, MTP ${ }^{\circledR}$ PRO Elite quality Polarity TIA method B "1 to 12"

| Part numbers, length variable: |  |  |
| :--- | :--- | :--- |
| Cable <br> diameter | MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |
| 2.0 mm | 080A2065G657A1 | on request |
| 3.0 mm | 080A2036G657A1 | on request |

## Double jacket



SINGLEMODE


Double jacket cable 8 SM fibers FRNC-LSZH, diameter 3.0 / 4.5 mm MTP ${ }^{\circledR}$ and MTP ${ }^{\circledR}$ PRO 4+4 OCTO, SM, female MTP ${ }^{\circledR}$ Standard quality, MTP ${ }^{\circledR}$ PRO Elite quality Polarity TIA method B "1 to 12"

Standard lengths of the 3.0 mm single jacket MTP ${ }^{\circledR}$-legs $=0.5 \mathrm{~m}$ others on request

| Part numbers, length variable: |  |  |
| :--- | :--- | :---: |
| MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |  |
| 080A2045G657A1 | on request |  |



PreCONNECT ${ }^{\circledR}$ OCTO SM patchcords are suitable for DR4/PSM4 MPO4+4 transceiver-transceiver direct-attach.


## PreCONNECT ${ }^{\circledR}$ OCTO OM4 MTP ${ }^{\circledR}$-LCC harness:

## MULTIMODE

For connecting a MPO4+4 transceiver with four LC-Duplex transceivers and for port-breakout of OCTO trunks:

- 40GBASE-SR4 MPO4+4 to $4 \times 10 \mathrm{GBASE}$-SR/SW LC-Duplex
- 100GBASE-SR4 MPO4+4 to 4x 25GBASE-SR/SW LC-Duplex
- 200GBASE-SR4 MPO4+4 to 4x 50GBASE-SR/SW LC-Duplex
- $4 \times 16 \mathrm{GFC}$ MPO4+4 to 4 x 16GFC LC-Duplex
- $4 x 32 \mathrm{GFC}$ MPO4+4 to $4 x$ 32GFC LC-Duplex
- $4 x 64 \mathrm{GFC}$ MPO4+4 to 4 x 64GFC LC-Duplex



## OCTO OM4 harness MTP ${ }^{\circledR}$ 4+4 OCTO, MM, female to 4 LC-COMPACT

Double jacket cable 8 OM4 fibers 3.0 / 4.5 mm FRNC-LSZH
LC-Compact leg-lengths 0.5 m , legs numbered 1 to 4
other leg lengths on request
Order length = total length
MTP® ${ }^{\circledR} 4+4$ OCTO, MM, female, Elite quality
Polarity Rx to Tx

| Part numbers, length variable: |  |
| :--- | :--- |
| MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |
| 076 A 0112 OM 4 | on request |



PreCONNECT ${ }^{\circledR}$ OCTO OM4 MTP®®-MDC harness:

For connecting a MPO4+4 transceiver with four MDC transceivers and for port-breakout of ОСTO trunks:

- 100GBASE-SR4 MPO4+4 to 4x 25GBASE-SR/SW MDC
- 200GBASE-SR4 MPO4+4 to 4x 50GBASE-SR/SW MDC

OCTO OM4 harness MTP ${ }^{\circledR}$ 4+4 OCTO, MM, female to 4 MDC
Double jacket cable 8 OM4 fibers 3.0 / 4.5 mm FRNC-LSZH
MDC leg-lengths 0.5 m , legs numbered 1 to 4
other leg lengths on request
Order length = total length
MTP® ${ }^{\circledR}+4$ OCTO, MM, female, Elite quality
Polarity Rx to Tx

| Part numbers, length variable: |  |
| :--- | :--- |
| MTP $^{\circledR}$ | MTP ${ }^{\circledR}$ PRO |
| 076A0187OM4 | on request |

M U L T IM O D E



## PreCONNECT ${ }^{\circledR}$ OCTO SM MTP ${ }^{\circledR}$-LCC harness:

For connecting a MPO4+4 transceiver with four LC-Duplex transceivers and for port-breakout of OCTO trunks:

- 100G-PSM4 MPO4+4 to $4 x$ 25GBASE-LR LC-Duplex
- 4x10GBASE-LR MPO4+4 to 4x 10GBASE-LR LC-Duplex
- 200GBASE-DR4 MPO4+4 to 4x 50GBASE-LR LC Duplex
- 400GBASE-DR4 MPO4+4 to 4x 100GBASE-LR LC Duplex


## OCTO SM harness MTP ${ }^{\circledR}$ 4+4 OCTO, SM, female to 4 LC-COMPACT

SINGLEMODE


Double jacket cable 8 SM fibers 3.0 / 4.5 mm FRNC-LSZH
LC-Compact leg-lengths 0.5 m , legs numbered 1 to 4
other leg lengths on request
Order length = total length
MTP ${ }^{\circledR} 4+4$ OCTO, SM, female, MTP ${ }^{\circledR}$ Standard quality, MTP ${ }^{\circledR}$ PRO Elite quality
Polarity Rx to Tx

| Part numbers, length variable: |  |
| :--- | :--- |
| MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |
| 076A0116G657A1 | on request |

MPO4+4 Transceiver


PreCONNECT ${ }^{\circledR}$ OCTO SM MTP ${ }^{\circledR}$-MDC harness:
For connecting a MPO4+4 transceiver with four MDC transceivers and for port-breakout of OCTO trunks:

- 100G-PSM4 MPO4+4 to $4 \times 25 G B A S E-L R$ MDC
- 200GBASE-DR4 MPO4+4 to $4 x$ 50GBASE-LR MDC
- 400GBASE-DR4 MPO4+4 to $4 x$ 100GBASE-LR MDC


## OCTO SM harness MTP ${ }^{\circledR} \mathbf{4 + 4}$ OCTO, SM, female to 4 MDC

Double jacket cable 8 SM fibers 3.0 / 4.5 mm FRNC-LSZH
MDC leg-lengths 0.5 m , legs numbered 1 to 4
other leg lengths on request
Order length = total length
MTP ${ }^{\circledR} 4+4$ OCTO, SM, female, MTP ${ }^{\circledR}$ Standard quality, MTP ${ }^{\circledR}$ PRO Elite quality
Polarity Rx to Tx

| Part numbers, length variable: |  |
| :--- | :--- |
| MTP $^{\circledR}$ | MTP $^{\circledR}$ PRO |
| 076 A0188G657A1 | on request |

MPO4+4 Transceiver


## SINGLEMODE



MDC
Transceiver

## 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 globa market.

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

## Rosenberger

## Rosenberger-OSI GmbH \& Co. OHG

Optical Solutions \& Infrastructure | Endorferstr. 6 | 86167 Augsburg | GERMANY | Telefon: +49 821 24924-0 info-osi@rosenberger.com | www.rosenberger.com/osi
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