

MTP® Patchcords

PRODUCT INFORMATION



MTP® Patchcords are available in two end face quality features: BASIC and PURE

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



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

- The PreCONNECT® factory-assembled plug & play system enables quick and reliable, cost efficient, installation and performance
- Harmonized modular components of the quality feature BASIC solution ensure end to end performance of the entire channel



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

- Guaranteed protection of the polished connector end-face against contamination and damage through sealed adapter-interfaces, enabling time savings during initial installation and commissioning due to the elimination of the need for cleaning and testing*/**.
- Quality feature PURE provides an industry leading low random mate insertion and return loss (mean) which enables up to six (6) mated pairs in a 10G/OM4 application up to 300m.

Part numbers:

Quality feature BASIC: The part numbers XXXAXXXX listed in this document are valid for the BASIC quality feature.

Quality feature PURE: Add a “P” to the end of the quality feature BASIC part number (*Example: XXXAXXXXP*)

(Note: PURE trunk cables have factory attached sealed coupling adapters incorporated and thus utilize empty patch panels and enclosures)

** While Rosenberger does not require permanent link or channel testing for warranty registration of PURE installations due to guaranteed performance, certain customers will require testing documentation for their records.*

*** Only applicable when all components are of quality feature PURE and installed by trained PURE installers.*

Applications:

For stationary and weather protected application acc. to IEC 60721-3-3, like within data centers and buildings.

Properties:

- 8, 12 and 16 fiber round cables, single and double jacket, different diameters
- Bending behavior of the round cables equal in all directions
- Bend-insensitive fibers
- With FRNC-LSZH cable jacket, with OFNP (Plenum) and OFNR (Riser) on request
- Polarity: See at the following pages
- Operating temperature range climate class C „indoor, controlled environment“ acc. to IEC 60753-1, -10°C to +60°C
- Connector, fiber and cable data on request via the product profiles of the patchcords

Length tolerances:

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

Delivery form:

- Attenuation (IL) measured in accordance with IEC 61300-3-4 method „B“, MM 850nm/SM 1310nm, measurement values on request, or can be downloaded from our website by using the serial numbers of the patchcords
<https://www.rosenberger.com/products/download-measurement-data/>
- Serial number labels with length information at both patchcord ends
- Individually packaged in foil bags with product ID label

Your benefits at a glance:

- The perfect fitting cable diameter for each application available
- Installed patchcords can be clearly identified by their serial number labels with length information at both patchcord ends
- Patchcords can be loaded with their serial number into your network documentation



Applications :

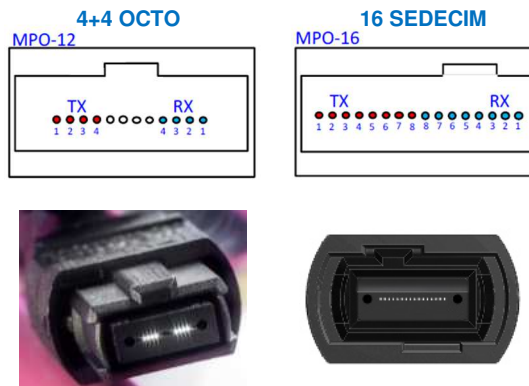
Connecting MPO Transceivers:

Multimode:

- 40/100/200/400 GBASE-SR4 MPO 4+4 OCTO
- 4x 16/32/64 GFC MPO 4+4 OCTO
- 400/800 GBASE-SR8 MPO 16 SEDECIM

Singlemode:

- 100/200/400 GBASE DR4/PSM4 MPO 4+4 OCTO
- 4x 10/25/50 GBASE-LR MPO 4+4 OCTO
- 4x 16/32/64 GFC MPO 4+4 OCTO
- 800 GBASE-DR8/PSM8 MPO 16 SEDECIM

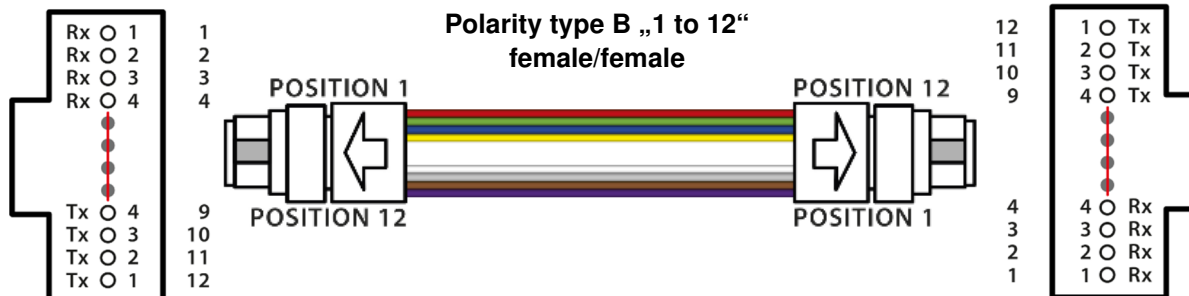


Polarity and Gender:

For this application the patchcord MTP® connectors must have **polarity** TIA 568 method **B** „1 to 12“ / „1 to 16“ and must be **female** (w/o pins).

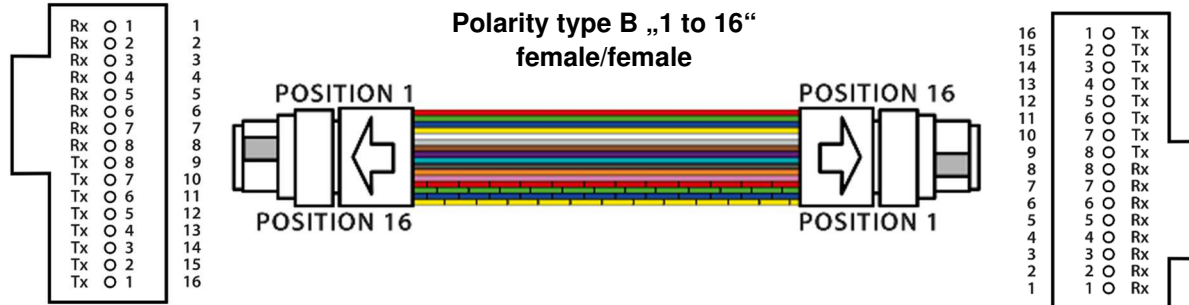
MTP® 4+4 OCTO Patchcord

Polarity type B „1 to 12“
female/female



MTP® 16 SEDECIM Patchcord

Polarity type B „1 to 16“
female/female



Applications :

Application in MTP® cabling, example here PreCONNECT® OCTO MTP®

Polarity and Gender:

For this application the patchcord MTP® connectors must have **polarity** TIA 568 method **B** „1 to 12“ / „1 to 16“ and must be **female (w/o pins)**.



MTP® 4+4 OCTO connectors:

- MTP® gender: MPO 4+4 OCTO transceivers and PreCONNECT® OCTO MTP® trunk cables are male/with pins, why the therefore fitting patchcord MTP® connectors must be female/without pins.
- MTP® 4+4 OCTO connectors belong to the group of „n x 12“ (by12) MTP®, which have centered keys
- Multimode APC 8° for all PAM4 coded transmission applications, like e.g. OCTO 400GBASE-SR4
- The applied MTP® (MT) ferrule quality Standard or Elite, is specified within the part number tables at the following pages



MTP® 4+4 OCTO MM PC 0° female (w/o pins)

male (with pins)



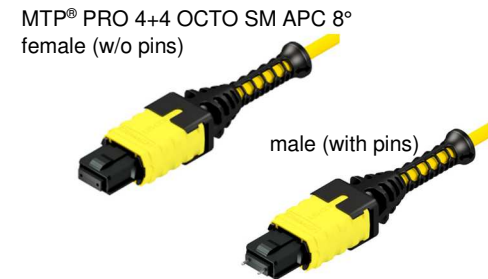
MTP® 4+4 OCTO SM APC 8° female (w/o pins)

male (with pins)



MTP® PRO 4+4 OCTO MM PC 0° female (w/o pins)

male (with pins)



MTP® PRO 4+4 OCTO SM APC 8° female (w/o pins)

male (with pins)

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



MTP® 4+4 OCTO MM APC 8° female (w/o pins)

male (with pins)

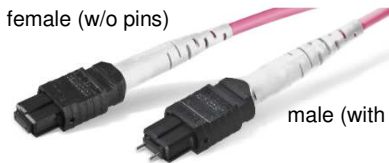
MTP® 16 SEDECIM connectors:

- MTP® gender: MPO 16 SEDECIM transceivers and PreCONNECT® SEDECIM MTP® trunk cables are male/with pins, why the therefore fitting patchcord MTP® connectors must be female/without pins.
- MTP® 16 SEDECIM connectors belong to the group of „n x 16“ (by16) MTP®, which have off-centered keys
- Multimode APC 8° for all PAM4 coded transmission applications, like e.g. SEDECIM 400GBASE-SR8
- The applied MTP® (MT) ferrule quality Standard or Elite, is specified within the part number tables at the following pages



MTP® 16 MM APC 8° Stecker

female (w/o pins)

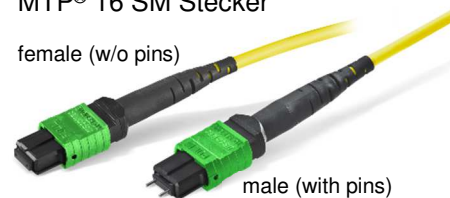


male (with pins)



MTP® 16 SM Stecker

female (w/o pins)



male (with pins)

MTP® Patchcords with single and double jacket cables FRNC-LSZH:

Double jacket cables

Perfect for „top-of-the-rack“ and raised-floor cabling within data centers !

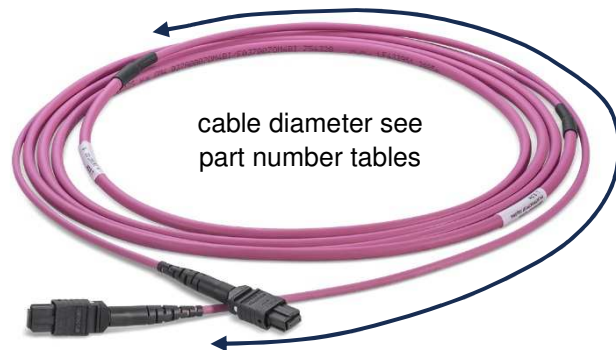
Mechanical requirements of „top-of-the-rack“ and raised-floor cabling on patchcords are much higher than within racks. Therefor we offer rugged MTP® patchcords with double jacket, with increased kink, crush and tensile resistance.

Advantages of double jacket cables:

- Increased kink, crush and tensile resistance of the 4.5mm double jackets in the „top-of-the-rack“ and raised-floor environment
- Low cable volume and good bending behaviour of the 3.0mm thin MTP® legs within the patchfield area



Single jacket cables
diameter see part number tables



cable diameter see part number tables

leg length default 50cm, on request up to 3m



MTP® patchcord 4+4 OCTO 8 fibers OM4:

MTP® and MTP® PRO 4+4 OCTO, MM, female, Elite quality
Polarity TIA method B „1 to 12“



Part numbers single jacket cables 8 fibers OM4 FRNC-LSZH
Add your desired length in millimeter to the part number,
e.g. 2.0 meter: 03MTPMTPOM4008A004-M2000
Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)

Cable diameter	Connectors	New (CPQ) part number	Old part number
2.0 mm	MTP® MM PC 0° » MTP® MM PC 0°	on request	080A2063OM4
	MTP® MM PC 0° » MTP® MM APC 8°	on request	---
	MTP® MM APC 8° » MTP® MM APC 8°	on request	---
	MTP® PRO MM PC 0° » MTP® PRO MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM APC 8°	on request	---
3.0 mm	MTP® MM PC 0° » MTP® MM PC 0°	03MTPMTPOM4008A004	080A2030OM4
	MTP® MM PC 0° » MTP® MM APC 8°	on request	---
	MTP® MM APC 8° » MTP® MM APC 8°	on request	---
	MTP® PRO MM PC 0° » MTP® PRO MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM APC 8°	on request	---

Part numbers double jacket cables 8 fibers OM4 FRNC-LSZH
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A2031OM4-2000
Deliverable lengths: From 2 to 100 Meter, in 10cm increments

Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® MM PC 0° » MTP® MM PC 0°	on request	080A2031OM4
	MTP® MM PC 0° » MTP® MM APC 8°	on request	---
	MTP® MM APC 8° » MTP® MM APC 8°	on request	---
	MTP® PRO MM PC 0° » MTP® PRO MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM APC 8°	on request	---



MTP® 4+4 OCTO MM PC 0° female (w/o pins)



MTP® 4+4 OCTO MM APC 8° female (w/o pins)



MTP® PRO 4+4 OCTO MM PC 0° female (w/o pins)



MTP® patchcord 4+4 OCTO 8 fibers SM:

MTP® 4+4 OCTO, SM, female, Standard quality
 MTP® PRO 4+4 OCTO, SM, female, Elite quality
 Polarity TIA method B „1 to 12“



MTP® 4+4 OCTO SM APC 8° female (w/o pins)

Part numbers single jacket cables 8 fibers SM FRNC-LSZH
 Add your desired length in millimeter to the part number,
 e.g. 2.0 meter: 03MTPMTPG657A1008A01-M2000
 Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)

Cable diameter	Connectors	New (CPQ) part number	Old part number
2.0 mm	MTP® SM APC 8° » MTP® SM APC 8°	on request	080A2065G657A1
	MTP® PRO SM APC 8° » MTP® PRO SM APC 8°	on request	---
	MTP® PRO SM APC 8° » MTP® SM APC 8°	on request	---
3.0 mm	MTP® SM APC 8° » MTP® SM APC 8°	03MTPMTPG657A1008A01	080A2036G657A1
	MTP® PRO SM APC 8° » MTP® PRO SM APC 8°	on request	---
	MTP® PRO SM APC 8° » MTP® SM APC 8°	on request	---

MTP® PRO 4+4 OCTO SM APC 8° female (w/o pins)



Part numbers double jacket cables 8 fibers SM FRNC-LSZH
 Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A2045G657A1-2000
 Deliverable lengths: From 2 to 100 Meter, in 10cm increments

Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® SM APC 8° » MTP® SM APC 8°	on request	080A2045G657A1
	MTP® PRO SM APC 8° » MTP® PRO SM APC 8°	on request	---
	MTP® PRO SM APC 8° » MTP® SM APC 8°	on request	---



MTP® patchcord DUODECIM 12 fibers OM4:

**MTP® and MTP® PRO 12 DUODECIM, MM, female, Elite quality
Polarity TIA method B „1 to 12“**



Part numbers single jacket cables 12 fibers OM4 FRNC-LSZH
Add your desired length in millimeter to the part number,
e.g. 2.0 meter: 03MTPMTPOM4012A010-M2000
Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)

Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0 mm	MTP® MM PC 0° » MTP® MM PC 0°	03MTPMTPOM4012A010	080A0580OM4
	MTP® PRO MM PC 0° » MTP® PRO MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM PC 0°	on request	---

Part numbers double jacket cables 12 fibers OM4 FRNC-LSZH
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A0743OM4-2000
Deliverable lengths: From 2 to 100 Meter, in 10cm increments

Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® MM PC 0° » MTP® MM PC 0°	on request	080A0743OM4
	MTP® PRO MM PC 0° » MTP® PRO MM PC 0°	on request	---
	MTP® PRO MM PC 0° » MTP® MM PC 0°	on request	---



MTP® 12 MM PC 0° female (w/o pins)

MTP® PRO 12 MM PC 0° female (w/o pins)



MTP® patchcord DUODECIM 12 fibers SM:

MTP® 12 DUODECIM, SM, female, Standard quality
 MTP® PRO 12 DUODECIM, SM, female, Elite quality
 Polarity TIA method B ..1 to 12“



MTP® 12 SM APC 8° female (w/o pins)

MTP® PRO 12 SM APC 8° female (w/o pins)



Part numbers single jacket cables 12 fibers SM FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 03MTPMTPG657A1012A01-M2000			
Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0 mm	MTP® SM APC 8° » MTP® SM APC 8°	03MTPMTPG657A1012A01	080A1052G657A1
	MTP® PRO SM APC 8° » MTP® PRO SM APC 8°	on request	---
	MTP® PRO SM APC 8° » MTP® SM APC 8°	on request	---

Part numbers double jacket cables 12 fibers SM FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A1118G657A1-2000			
Deliverable lengths: From 2 to 100 Meter, in 10cm increments			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® SM APC 8° » MTP® SM APC 8°	on request	080A1118G657A1
	MTP® PRO SM APC 8° » MTP® PRO SM APC 8°	on request	---
	MTP® PRO SM APC 8° » MTP® SM APC 8°	on request	---



MTP® patchcord SEDECIM 16 fibers OM4:

MTP® 16 SEDECIM, MM, female, Elite quality
Polarity TIA method B „1 to 16“



MTP® 16 MM APC 8° female (w/o pins)

Part numbers single jacket cables 16 fibers OM4 FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A1145OM4-2000			
Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0 mm	MTP® MM APC 8° » MTP® MM APC 8°	on request	080A1145OM4
	MTP® MM APC 8° » MTP® MM PC 0°	on request	080A1146OM4
	MTP® MM PC 0° » MTP® MM PC 0°	on request	080A1142OM4

MTP® 16 MM PC 0° female (w/o pins)



Part numbers double jacket cables 16 fibers OM4 FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A1147OM4-2000			
Deliverable lengths: From 2 to 100 Meter, in 10cm increments			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® MM APC 8° » MTP® MM APC 8°	on request	080A1147OM4
	MTP® MM APC 8° » MTP® MM PC 0°	on request	080A1148OM4
	MTP® MM PC 0° » MTP® MM PC 0°	on request	080A1154OM4



MTP® patchcord SEDECIM 16 fibers SM:

MTP® 16 SEDECIM, SM, female, Standard quality
Polarity TIA method B „1 to 16“



MTP® 16 SM APC 8°
female (w/o pins)

Part numbers single jacket cables 16 fibers SM FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A2105G657A1-2000			
Deliverable lengths: From 30cm (CPQ 50cm) to 100 meter, in 10cm increments (CPQ 50cm)			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0 mm	MTP® SM APC 8° » MTP® SM APC 8°	on request	080A2105G657A1

Part numbers double jacket cables 16 fibers SM FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 080A2106G657A1-2000			
Deliverable lengths: From 2 to 100 Meter, in 10cm increments			
Cable diameter	Connectors	New (CPQ) part number	Old part number
3.0/4.5 mm	MTP® SM APC 8° » MTP® SM APC 8°	on request	080A2106G657A1



About Rosenberger OSI:

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

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

www.rosenberger.com/osi

Rosenberger

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