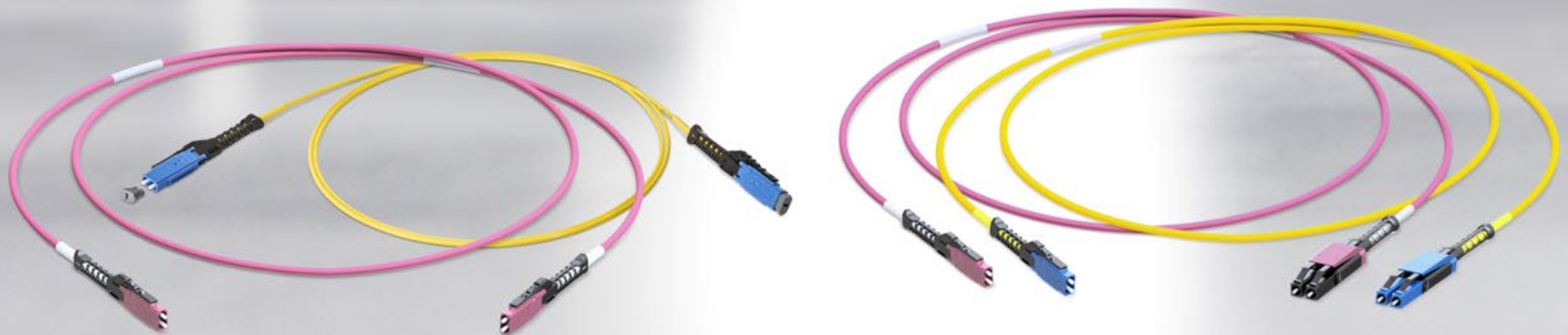


MDC Patchcords

PRODUCT INFORMATION



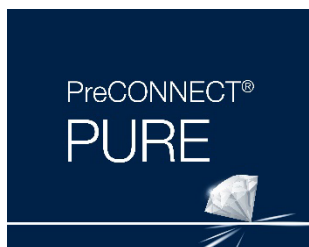
MDC Patchcords solution is available in two end face quality features: BASIC and PURE

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:

- 2 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 and OFNP (Plenum) cable jackets, OFNR (Riser) on request
- Polarity:
 - Full-duplex cables with duplex connectors on both sides “crossed” A to B in accordance with ISO/IEC 11801 and EN 50173
 - Polarity changeable if needed
- 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:

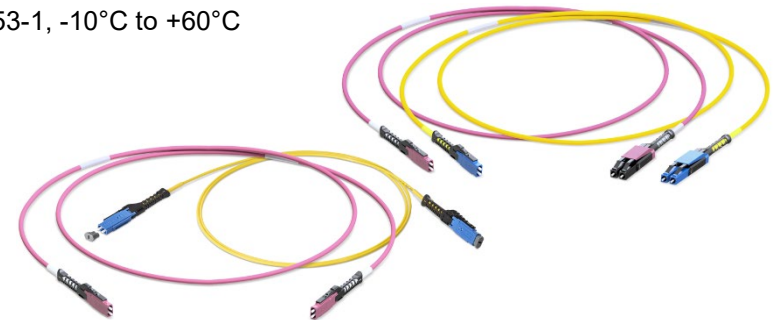
- Up to 1 m = - 50 mm
- 2 m to 3 m = - 100 mm
- 4 m to 25 m = - 200 mm
- Longer than 25 m = - 1 %

Delivery form:

- Attenuation (IL) measured in accordance with IEC 61300-3-4 „C“ or „Substitution“ method, 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

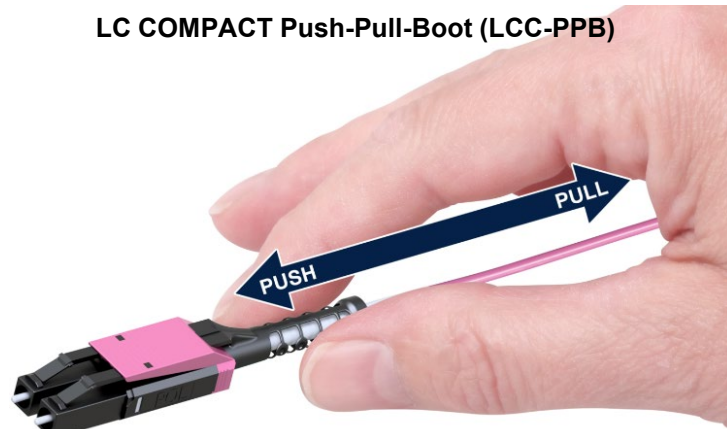
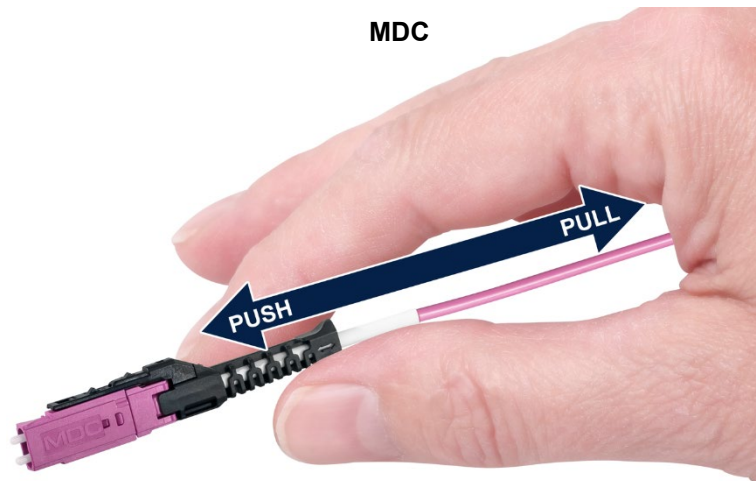


MDC Stecker:

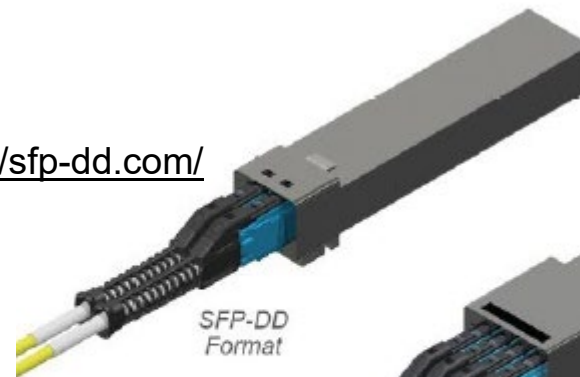
The MDC (Miniature Duplex Connector) is a genuine Push-Pull-Boot duplex plug connector manufactured using 1.25-mm full-ceramic ferrule technology. It belongs to the category of Very Small Form Factor (VSFF) plug connectors.

It was developed by US Conec as an optical interface plug connector for SFP-DD, OSFP and QSFP-DD transceivers and various other applications and is available in singlemode and multimode versions with both PC 0° and APC 8° cuts and is standardized in IEC 61754-37.

The MDC plug connector allows users to increase the port density per 19" height unit (HU) in datacenter optical fiber cabling infrastructures beyond the with LC Duplex maximum possible number while still permitting patching with no equipment other than the user's fingers.



<http://sfp-dd.com/>



<http://www.qsfp-dd.com/>



MDC single jacket patchcords FRNC-LSZH:



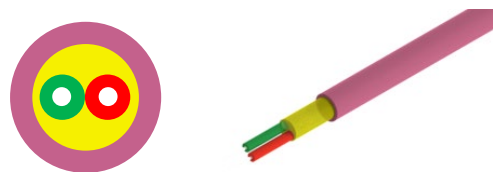
Part numbers with single jacket cable I-V(ZN)H FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 092A0010OM4-2000			
Deliverable lengths: From 20cm up to 999 meter, in 10cm increments			
Cable diameter	Connectors	OM4	OS2
1.6 mm	MDC PC 0° » MDC PC 0°	092A0010OM4	092A0009G657A1
	MDC PC 0° » LCC-PPB PC 0°	092A0012OM4	092A0011G657A1
2.0 mm	MDC PC 0° » MDC PC 0°	092A0004OM4	092A0003G657A1
	MDC PC 0° » LCC-PPB PC 0°	092A0008OM4	092A0007G657A1

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

Technical data single jacket cable I-V(ZN)H FRNC-LSZH					
Cable diameter	Kink resistance loop diameter	Max. tensile force short term [N]	Max. crush resistance short term [N/dm]	Weight [kg/km]	Fire load [MJ/m]
1.6 mm	7.8 mm	200	150	2.9	0.07
2.0 mm	8.4 mm	300	150	4	0.11

More technical data of the cables on request.

MDC single jacket patchcords OFNP (Plenum):



Part numbers with single jacket cable OFNP (Plenum)				
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 092A0010OM4-2000				
Deliverable lengths: From 20cm up to 999 meter, in 10cm increments				
Cable diameter	Connectors	OM4 violet	OM4 aqua	OS2
1.6 mm	MDC PC 0° » MDC PC 0°	092A0002OM4	on request	092A0001G657A1
	MDC PC 0° » LCC-PPB PC 0°	092A0006OM4	on request	092A0005G657A1
2.1 mm	MDC PC 0° » MDC PC 0°	on request	on request	on request
	MDC PC 0° » LCC-PPB PC 0°	on request	on request	on request

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

Technical data single jacket cable OFNP (Plenum)				
Cable diameter	Kink resistance loop diameter	Max. tensile force short term [N]	Max. crush resistance short term [N/dm]	Weight [lbs/Kft]
1.6 mm	7.8 mm	220	3.5	1.790
2.1 mm	8.6 mm	220	3.5	3.096

More technical data of the cables on request.

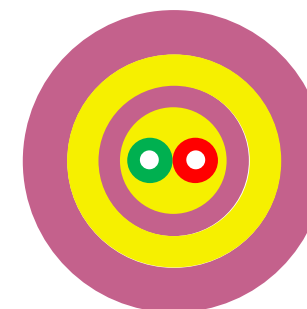
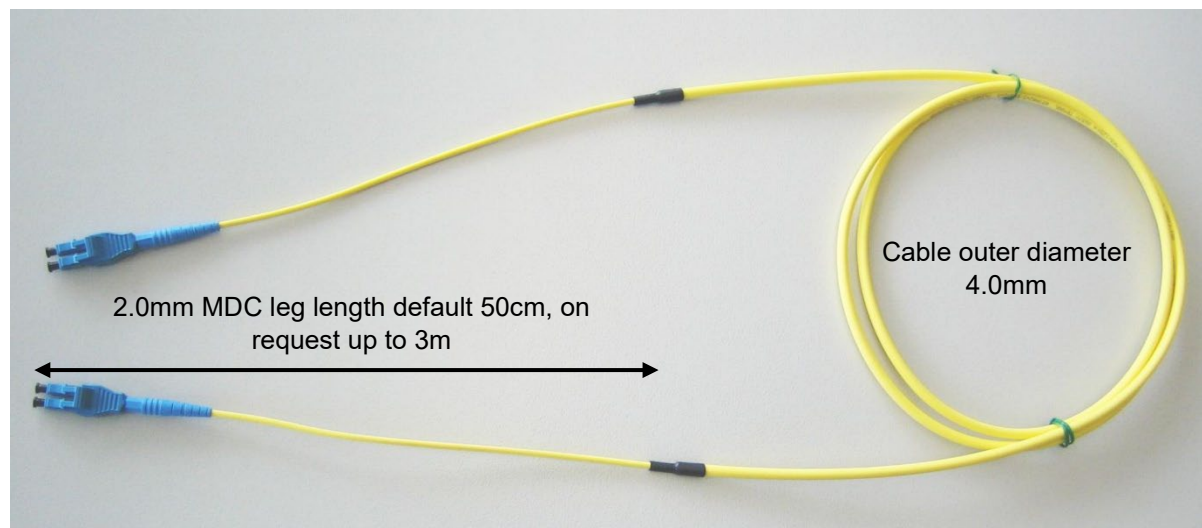
MDC double jacket patchcords FRNC-LSZH:

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

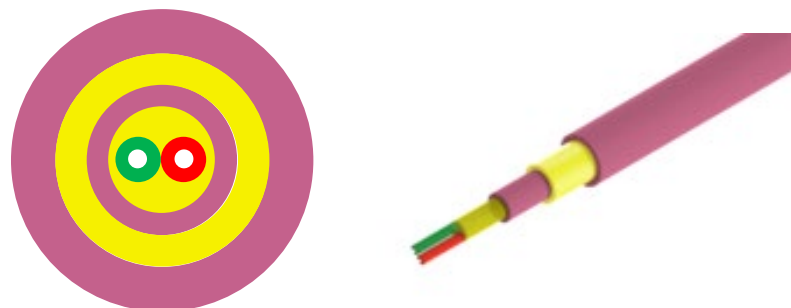
Mechanical requirements of „top-of-the-rack“ and raised-floor cabling on patchcords are much higher than within racks. Therefore we offer rugged MDC patchcords with 2 fiber round cables with double jacket, with increased kink, crush and tensile resistance.

Advantages of double jacket cables:

- Increased kink, crush and tensile resistance of the 4.0mm double jackets in the „top-of-the-rack“ and raised-floor environment
- Low cable volume and good bending behaviour of the 2.0mm thin MDC legs within the patchfield area



MDC double jacket patchcords FRNC-LSZH:



Part numbers with double jacket cable I-V(ZN)H(ZN)H FRNC-LSZH			
Add your desired length in millimeter to the part number, e.g. 2.0 meter: 092A0010OM4-2000			
Deliverable lengths: From 20cm up to 999 meter, in 10cm increments			
Cable diameter	Connectors	OM4	OS2
2.0 / 4.0 mm	MDC PC 0° » MDC PC 0°	on request	on request
	MDC PC 0° » LCC-PPB PC 0°	on request	on request

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

*MDC
double jacket patchcords
OFNP (Plenum)
on request*

Technical data double jacket cable I-V(ZN)H(ZN)H FRNC-LSZH					
Cable diameter	Kink resistance loop diameter	Max. tensile force short term [N]	Max. crush resistance short term [N/dm]	Weight [kg/km]	Fire load [MJ/m]
2.0 / 4.0 mm	< 24.5mm tbt	600	300	2.9	0.07

More technical data of the cables 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:

www.rosenberger.com/osi

Rosenberger

Rosenberger-OSI GmbH & Co. OHG

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

Rosenberger® is a registered trademark of Rosenberger Hochfrequenztechnik GmbH & Co. KG. All rights reserved. © Rosenberger 2022

For technical reasons, we reserve us the right to make any deviations from the illustrations in the product information.
Transfer to third party only by authority of Rosenberger-OSI GmbH & Co. OHG- All rights reserve.

Creation date: 2011-02-02
Valid since: 2023-03-14
Revision: 003