

# Product information – OpDAT patch cord MPO/MTP®



MTP® is a registered trademark of US Conec Ltd., USA

## Product specification

MPO/MTP® patch cords are mainly used in data centers with transmission rates of 10, 40 or 100 Gbit/s. They are used to connect distribution technology, e.g. 19" panels, to active components such as servers or switches.

The MPO FO connector type is a multi-fiber connector in accordance with IEC 61754-7, in which several fibers are arranged in parallel in a rectangular ferrule ("parallel optics"). In order to position these fibers in front of each other with high precision in a connector-in connection, a connector with 2 pins (= "male") is always plugged together with a connector with 2 holes (= "female") in an adapter. The necessary patch cords with female connectors on both sides are most commonly used in MPO/MTP® systems, while trunk cables or active components are provided with male connectors.

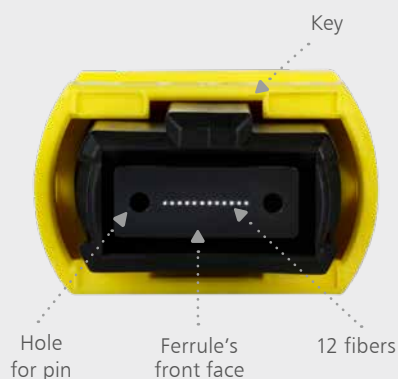
In the case of a multi-fiber system, the correct interconnection or orientation must always be ensured. For this reason, the type of polarity must be specified when ordering to ensure the continuity of the branch circuit throughout the cabling.

METZ CONNECT exclusively uses USCONEC connectors and adapters, whose optimized MPO variants are known under the trade name MTP®. From the MTP® product family, only connectors with Elite® ferrules are used. These have excellent values for insertion loss and return loss. All MM-MTP® connectors are flat polished, while all SM-MTP® connectors are angled polished (APC).

## Properties

- Patch cables with 8 or 12 fibers, pre-assembled on both sides with MTP® connectors. Female connectors (without pins) as standard. Variants with male connectors (with pins) are possible
- Fiber types: OM3, OM4, OM5, OS2. All fibers are bend insensitive
- Cable with aramid yarn, suitable for indoor applications. Diameter available in Ø 2 mm and Ø 3 mm, UV stabilized, flame retardant and halogen free
- Lengths between 1.0 and 265 m available
- All patch cords are 100% tested for insertion loss and return loss over 2 wavelengths (SM: 1310 and 1550 nm, MM: 850 and 1300 nm). An interferometer measurement is also carried out for each connector. After the measurement, a final visual inspection of the connectors takes place in accordance with IEC 61300-3-35
- All patch cords are provided with a serial number and a barcode. This ensures traceability and means that measured values can be made available at any time

Details



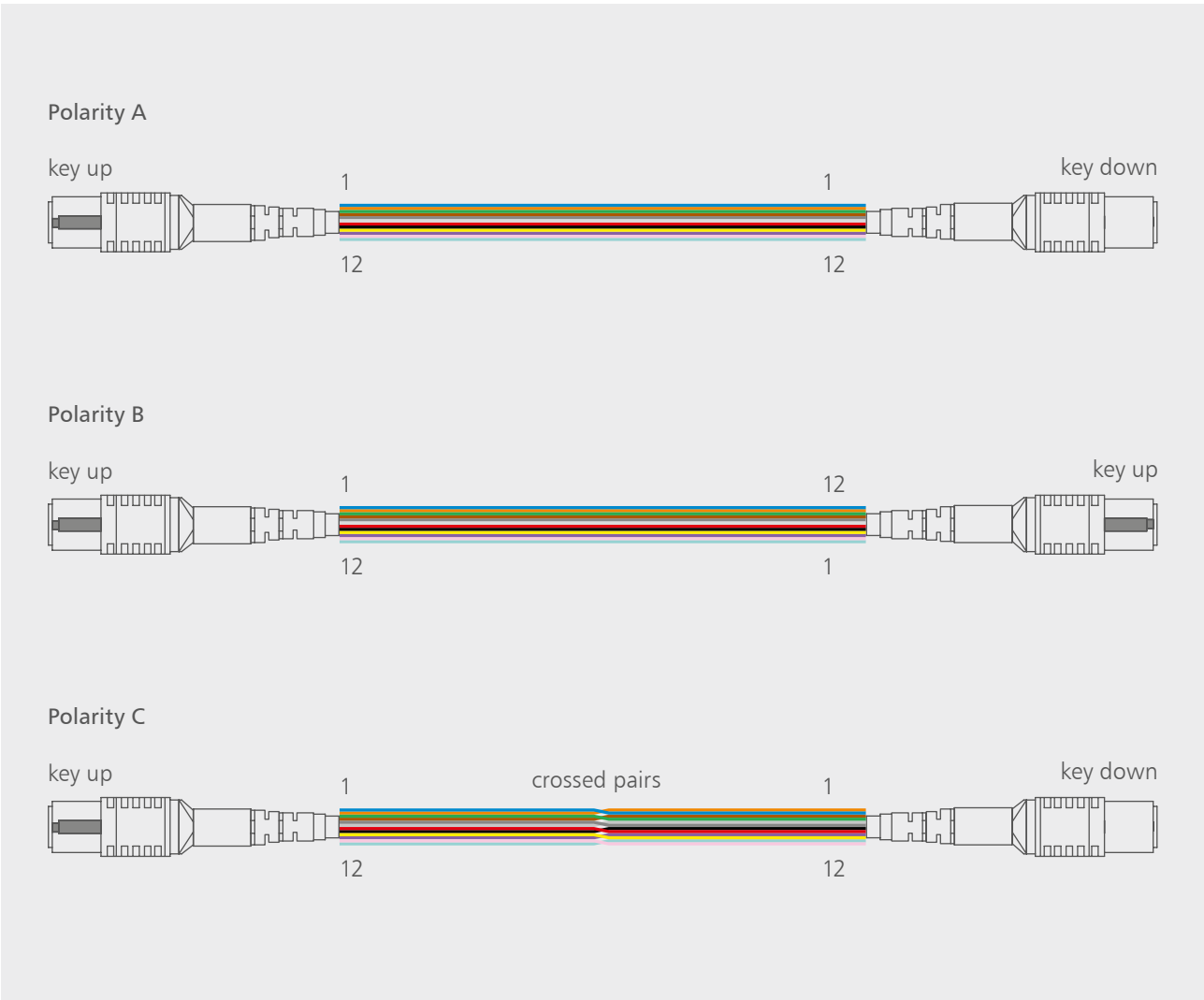
Variant



SM MTP® with Angle polished (APC)



# Assignment variants



FIBER TYPE		MULTIMODE			SINGLE MODE
	IEC 11801	OM3	OM4	OM5	OS2
Standard	IEC	60793-2-10 A1a.2	60793-2-10 A1a.3	60793-2-10 A1a.4	60793-2-50 B.6_a2
	ITU-T			G.651.1	G.657.A2 und G.652.D
Fiber structure				50/125 $\mu\text{m}$	9/125 $\mu\text{m}$
Cable sheath color		aqua	erikaviolett	lime green	yellow



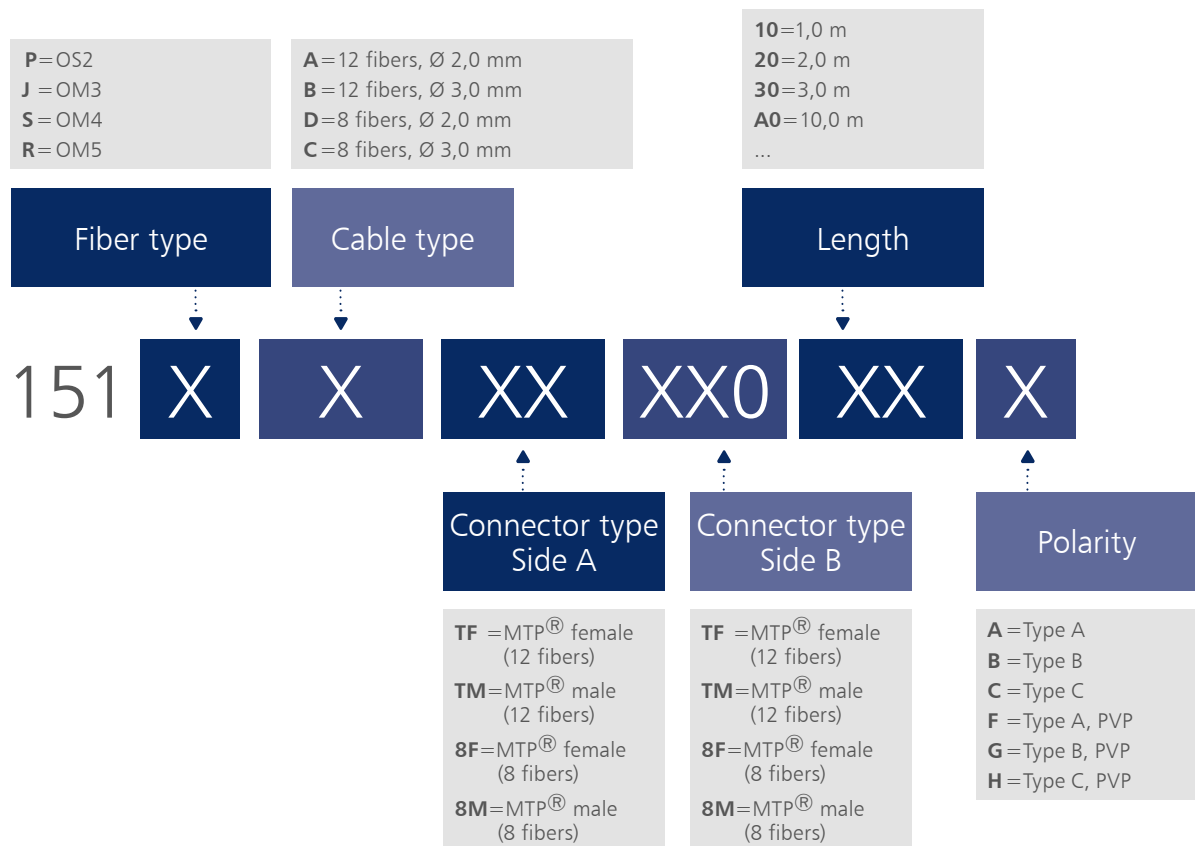
## Properties

OPTICAL PROPERTIES			MTP ELITE®	MTP ELITE® PVP LEVEL 2
MM	Insertion loss (compared to master) <sup>1)</sup>	max.	0.35 dB	0.25 dB
	Return damping	PC polish	> 35 dB	> 35 dB
SM	Insertion loss (compared to master) <sup>1)</sup>	max.	0.35 dB	0.25 dB
	Return damping	APC polish	> 60 dB	> 70 dB

<sup>1)</sup> IEC61300-3-4 Method B, measured value applies to the individual connector

MECHANICAL PROPERTIES			MTP ELITE®
Standard		IEC	61754-7
		TIA/EIA	604-5
Connector color	OM3	PC polish	aqua
	OM4	PC polish	heather violet
	OM5	PC polish	lime green
	SM	APC polish	yellow
Tensile strength		min.	70 N

## Ordering information



Please note:

The patch cords are specially manufactured according to your specifications. Exchanges or returns are therefore not possible. Technically, not all possible combinations are feasible. Simply use our cable configurator, which you can find on our homepage at [www.metz-connect.com/configurator](http://www.metz-connect.com/configurator). There you will find all available variants.



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