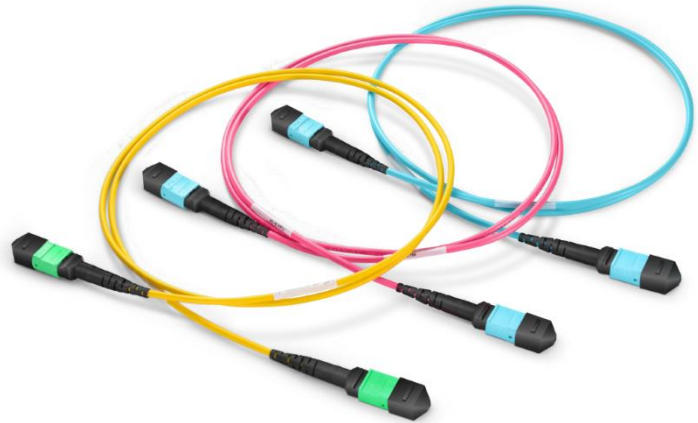


MTP/MPO Trunk Cable

MTP/MPO Series



- **MPO Plus premium connector, MTP® connector**
- **Single mode, Multimode fiber**
- **OS2, OM3, OM4 available**
- **0.35 dB elite low loss connector or 0.5 dB standard loss connector**
- **Allows easy migration from 10GbE to 40GbE or 100GbE**
- **Easy installation**

Ascent MTP/MPO trunk multi-fiber cable assemblies facilitate rapid deployment of high-density backbone cabling in data centers and other high fiber environments, reducing network installation or reconfiguration time and cost.

These MTP/MPO trunk multi-fiber cable are used to interconnect cassettes, panels or ruggedized MTP/MPO fan-outs, spanning MDA, HDA and EDA zones. Typically, these cables consist of OM3/OM4 multimode cables terminated with MTP/MPO connectors on both ends. The MTP/MPO connectors can be male (with guide pin on the contact interface) or female (without guide pin on the contact interface).

MTP/MPO trunk cables are typically available in 8, 12, 24, 48, or 72 fibers. These fibers are connected between two connectors in three different methods that are called method A, method B, and method C. While in method A fibers are straight through, in method B fibers are reversed connected. In method C, the fibers are pairs flipped. They use a simple push/pull latching mechanism for easy insertion and removal. This allows shorter installation time and lowers overall cost.

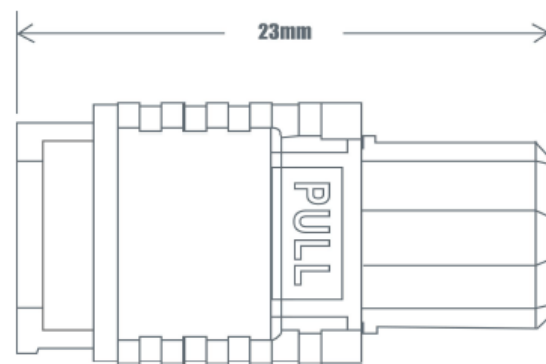
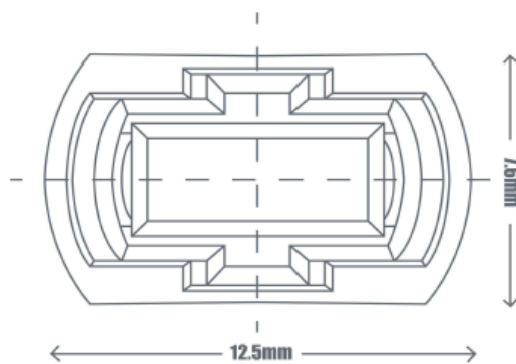
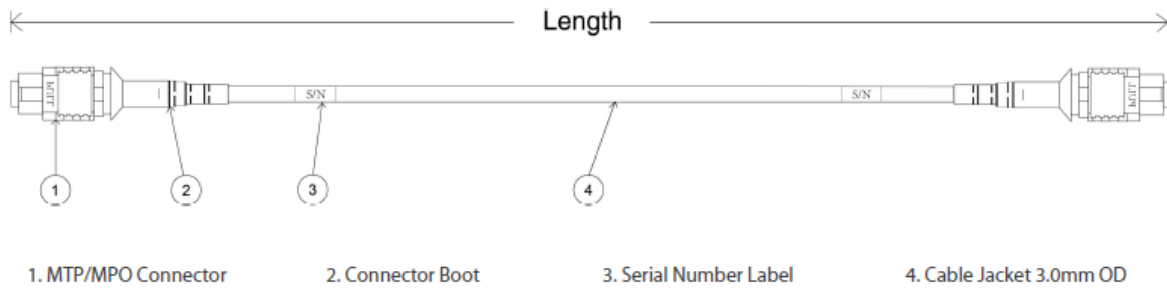
Key Features

- MTP® connector, MPO Plus premium connector
- Multimode fiber, SMF Ultra optical fiber
- OS2, OM3, OM4 available
- 0.35 dB elite low loss connector, 0.5 dB standard loss connector
- Factory terminated and tested
- Supports 40G ,100G,200G,400G and 800G network applications
- Pulling eyes are provided as an option to protect the fiber ends during installation
- Cable Jacket material: LSZH, OFNR, OFNP available

Standards Compliance

- RoHS, CE (EN50575 CPR) and ISO9001 compliant
- EIA/TIA, Telcordia GR-326-CORE standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

Technical Drawing



Specifications

Construction

Fiber Count	8-144 Fibers
Fiber Mode	Single-mode: OS2 9/125 μ m Multi-mode: OM4 50/125 μ m, OM3 50/125 μ m
Fiber Brand	Corning ClearCurve® multimode fiber and SMF-28® Ultra optical fiber or equivalent
Connector Type	MTP Female, Male; MPO Female, Male
Connector Brand	US Conec MTP®, Senko MPO or equivalent brand
Polarity	Type A, Type B, Type C
Cable Jacket Ratings	Plenum (OFNP) Low Smoke Zero Halogen (LSZH) Riser (PVC)
Cable Type	Bunch

Color Codes

	MTP	MPO
Cable Jackets	OS2: Yellow OM4: Magenta OM3: Aqua	OS2: Yellow OM4: Magenta OM3: Aqua
Connectors	OS2: Green OM4/OM3: Aqua	OS2: Green OM4/OM3: Aqua
Boots	8 Fibers: Grey 12 Fibers: Black 24 Fibers: Red	8/12/24 Fibers: Black

Physical Properties

Cable Diameter*	3.0 mm
Breakout Length	0.5/0.3 m
Minimum Bend Radius	Single-mode: 10.0 mm Multi-mode: 7.5 mm
Operating Temperature	-10 °C to +70 °C
Storage Temperature	-40 °C to +85 °C

* Please note that the cable diameter of standard single MTP/MPO cable is 3.0 mm, and for cables with different bundles, the diameter is different, as shown below:

Bundle Count	MTP/MPO-12	MTP/MPO-24	Trunk Diameter
2 Bundles*	24 Fibers	48 Fibers	6.0 mm
3 Bundles	36 Fibers	72 Fibers	8.0 mm
4 Bundles	48 Fibers	96 Fibers	8.0 mm
6 Bundles	72 Fibers	144 Fibers	8.0 mm
8 Bundles	96 Fibers	/	10.0 mm
12 Bundles	144 Fibers	/	10.0 mm

* "Bundle" means a combination of several fibers. For example, for MTP/MPO-12 cables, 2 bundles means 24 fibers (2x12); for MTP/MPO-24 cables, 2 bundles means 48 fibers (2x24).

Optical Properties

Attenuation	Single Mode: ≤ 0.32 dB/km at 1310 nm, ≤ 0.18 dB/km at 1550 nm Multi-mode: ≤ 2.3 at 850 nm, ≤ 0.6 at 1300 nm
Insertion Loss	Single-mode: ≤ 0.35 dB Multi-mode: ≤ 0.35 dB
Return Loss	Single-mode: UPC polish: ≥ 50 dB, APC polish: ≥ 60 dB Multi-mode: ≥ 25 dB
Wavelength	Single-mode: 1310/1550 nm Multi-mode: 850/1300 nm
Transmission Distance	OM4: 150 m at 40/100G, 400 m at 10G OM3: 100 m at 40/100G, 300 m at 10G

Ordering Information

MPO/MTP Trunk Cable Ordering Matrix									
X-	XX-	XX-	X-	X-	X	X-	XXX-	X	
↓		↓		↓		↓		↓	
Brand		Connector B		Fibre Count in Cable		Polarity		Pulling Eye	
MPO12		UF Female UPC		8		A Straight		None	
MPO24		FA Female APC		12		B Reversed/crossed		A A Only	
MTP08		MU Male UPC		24		C Pair Flipped		B B Only	
MTP16		MA Male APC		48				C Both	
MTP24									
	↓	Connector A		Fibre Type		Cable Jacket		Cable Length	
		UF Female UPC		OS2		LSZH		010 10 meters	
		FA Female APC		OM3		OFNP		050 50 meters	
		MU Male UPC		OM4		PVC		100 100 meters	
		MA Male APC						500 500 meters	

References Part Numbers*

*Contact your local sales representatives for more configuration

MPO12-UF-UF-OM4-8LSZH-B-100 MPO12 Female UPC to MPO12 Female UPC, OM4 50/125 Multimode, 8 Fibers, LSZH, Type B, 100m

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