

IDEAL FOR DATA CENTER HIGH DENSITY CABLING SYSTEM

Designed for data center applications requiring quick infrastructure deployment such as main, horizontal, and zone distribution areas



MTP®/MPO Trunk Cables

MTP®/MPO trunk multifiber 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. They are used to interconnect cassettes, panels or ruggedized MTP®/MPO fanouts, spanning MDA, HDA and EDA zones.

Standards Compliance

- RoHS, CE (EN 50575 CPR), ISO9001 and WEEE Compliant
- EIA/TIA, Telecordia GR-326-CORE Standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

Features

- US Conec MTP® connector, Senko MPO Plus® premium connector
- SMF-28® Ultra optical fiber, Corning Clearcurve® OM3/OM4 fiber, YOFC Maxband® OM5 fiber
- OS2, OM3, OM4, OM5 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Pulling eyes are provided as an option to protect the fiber ends during installation

Technical Specification

Construction	Description	
Fiber Count	8- 144 Fibers	
Fiber Mode	Single mode: OS2 9/125µm Multimode: OM3/OM4/OM5 50/125µm	
Fiber Brand	OS2: SMF-28® Ultra optical fiber OM3/OM4: Corning ClearCurve® fiber OM5: YOFC Maxband® fiber	
Connector Type	MTP® Female, Male; MPO Female, Male	
Connector Brand	US Conec MTP®, Senko MPO Plus®	
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 OM3: Aqua OM4: Magenta OM5: Lime Green	OS2: Yellow OM3: Aqua OM4: Magenta OM5: Lime Green
Connectors	OS2: Green OM3/OM4: Aqua OM5: Lime Green	OS2: Green OM3/OM4: Aqua OM5: Lime Green
Boots	8 Fibers: Grey 12 Fibers: Black 24 Fibers: Red	8/12/24 Fibers: Black

Technical Specification

Physical Properties	Description
Cable Diameter*	3.0mm
Breakout Length	0.5/0.3m
Minimum Bend Radius	Single Mode: 10.0mm, Multimode: 7.5mm
Operating Temperature	- 10°C to +70°C
Storage Temperature	-40°C to +85°C

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

Bundle Count	MTP®/MPO- 12	MTP®/MPO-24	Trunk Diameter
2 Bundles*	24 Fibers	48 Fibers	7.2mm
3 Bundles	36 Fibers	72 Fibers	9.3mm
4 Bundles	48 Fibers	96 Fibers	9.5mm
6 Bundles	72 Fibers	144 Fibers	11.7mm
8 Bundles	96 Fibers	/	12.01mm
12 Bundles	144 Fibers	/	17.3mm

* The “bundle” means a combination of several fibers. For example, as for MTP®/MPO- 12 cables, 2 bundles mean 24 Fibers (2x 12F); for MTP®/MPO-24 cables, 2 bundles mean 48 Fibers (2x 24F).

Technical Specification

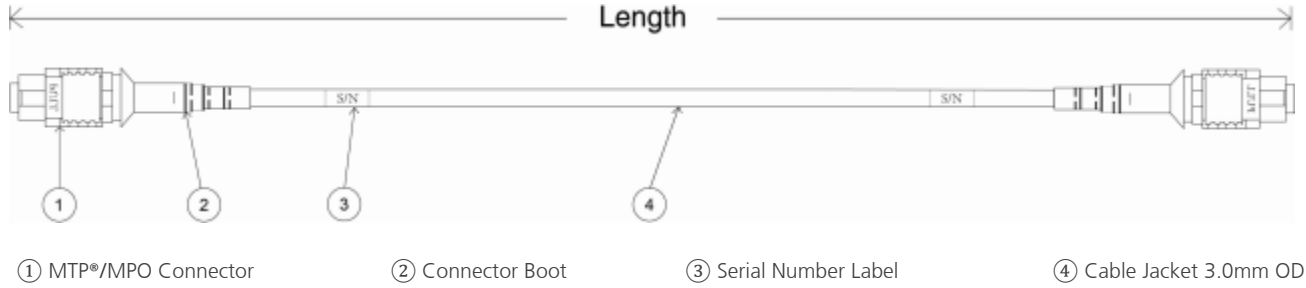
Optical Properties	Description
Attenuation (dB/km)	Single Mode: ≤ 0.32 at 1310nm, ≤ 0.18 at 1550nm OM3/OM4 Multimode: ≤ 2.3 at 850nm, ≤ 0.6 at 1300nm OM5 multimode: ≤ 2.3 at 850nm, ≤ 1.7 at 953nm, ≤ 0.6 at 1300nm
Insertion Loss (dB)	Single Mode: ≤ 0.35 , Multimode: ≤ 0.35
Return Loss (dB)	Single Mode: UPC Polish: ≥ 50 , APC Polish: ≥ 60 Multimode: ≥ 20
Wavelength (nm)	Single Mode: 1310/1550, Multimode: 850/1300

Transmission Distance

Multimode fiber backbone cabling distances for 10 Gbps, 40 Gbps, and 100 Gbps applications.

Backbone Application	Standard Specified Max. Distance		
	OM3	OM4	OM5
10GBASE-SR (850nm)	300m (984ft)	400m (1312ft)	400m (1312ft)
40GBASE-SR4	100m (328ft)	150m (492ft)	150m (492ft)
40GBiDi	100m (328ft)	150m (492ft)	200m (689ft)
40GBASE-eSR4	300m (984ft)	400m (1312ft)	400m (1312ft)
40G SWDM4	240m (787ft)	350m (1148ft)	440m (1444ft)
100GBASE-SR10	100m (328ft)	150m (492ft)	150m (492ft)
100GBASE-SR4	70m (230ft)	100m (328ft)	100m (328ft)
100GBASE-eSR4	200m (689ft)	300m (984ft)	300m (984ft)
100G SWDM4	75m (246ft)	100m (328ft)	150m (492ft)

Technical Drawing



BC-FO-XMPMPY-Z/v-FF

X – Cable diameter

- 5 / OM2/OM3/OM4/OM5
- 9 OS2

Y – Polarity

- a – Polarity a
- b – polarity b
- c – polarity c

Z – Length

V – Multimode cable type