

Item	MPO/MTP High Density Patch Cords		
Model No.	MP-LC-SM; MT-LC-SM		
Description	MPO/MTP-LC SM		
			

Overview

MPO/MTP fiber optic patch cord is a multi-fiber patch cord with fiber count of 8F/12F/24F. Fiber optics MPO connectors use Precision molded MT ferrules, together with metal guide pins and precise housings ensuring fiber alignment when mating. The MPO/MTP solution was designed for data center applications requiring quick infrastructure deployment such as main, horizontal, and zone distribution areas. AOA MPO patch cords and MTP patch cords are in Low insertion, high precision, comply with the standard of IEC, EIA/TIA, and Telecordia.

Features

- Loss optical performance to meet data center power budgets
- IEC, EIA/TIA or Telecordia compliant
- 100% optical inspection and testing
- Standard and Reduced Bend Sensitivity OM3, OM4 and OS2 Fiber types
- Available in different lengths and colors

Applications

- Data Center Infrastructure
- Storage Area Networks(SAN)
- Gigabit Ethernet
- Telecommunication networks



MTP MPO Optical Performance

Type		Unit	Description			
MPO/MTP connector		--	Standard SM MT	Low Loss(Elite) SM MT	Standard MM MT	Low Loss(Elite) MM MT
Insertion Loss	Typical	(dB)	0.35	0.20	0.35	0.20
	Max	(dB)	0.75	0.35	0.60	0.35
Return Loss		(dB)	APC≥60, PC≥50			≥20 for PC
Male / Female		--	Male: With Pins Female: Without Pins			
Wavelength		(nm)	Single Mode: 1310/1550 Multimode: 850/1300			
Transmission Distance		(m)	OM4: 150m(40/100G), 500m(10G) OM3: 100m(40/100G), 300m(10G)			

LC Optical Performance

Type	Single mode(UPC)	Single mode(APC)	Multi-mode (PC)
Insertion loss	≤0.2 dB	≤0.2 dB	≤0.2 dB
Return Loss	≥50 dB	≥60 dB	≥35 dB

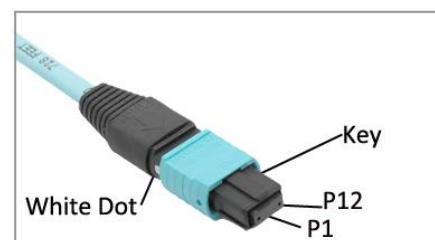
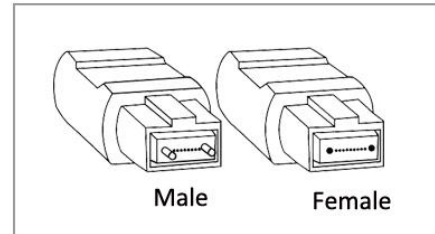
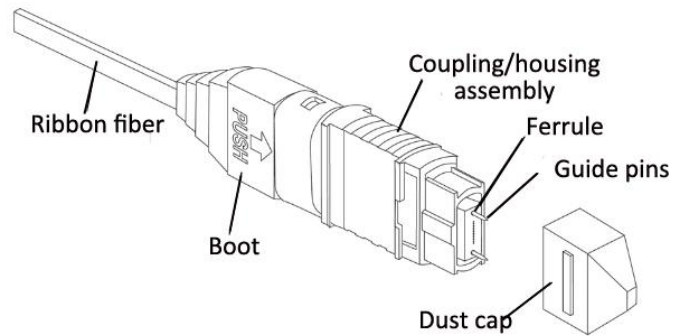
Geometry Parameters

Type	Unit	Description	
		Single Mode	Multi-mode
Radius of curvature X	(mm)	Min 2000	Min 2000
Radius of curvature Y	(mm)	Min 5	Min 5
Fiber Height	(nm)	1000~3500	1000~3500
Max.Diff.Height All	(nm)	Max 50	Max 50
Max.Diff.Height Adj	(nm)	Max 300	Max 300
Tilt Angle X	(°)	-0.2~+0.2	-0.2~+0.2
Tilt Angle Y	(°)	PC:-0.2~+0.2;APC:7.8~8.2	-0.2~+0.2
Core Dip	(nm)	N/A	-100~+200

Patch Cord Construction

Items	Description	
Connector	MPO / MTP	LC
Connector Type	Female / Male	UPC / APC
Connector Color	OS2: Green OM4/OM3: Aqua	OS2: UPC-Blue, APC-Green OM4/OM3: Aqua
Fiber Count	4~72 Fibers	
Fiber Mode	Single mode: OS2 9/125μm Multimode: OM4 50/125μm, OM3 50/125μm	
Cable Type	Trunk	
Cable Color	OS2: Yellow OM4: Magenta OM3: Aqua	
Cable Jacket Material	Plenum (OFNP) / Low Smoke Zero Halogen (LSZH) / Riser (OFNR)	
Cable Diameter	3.0±0.2 mm	
Polarity	Type A / Type B / Type C	

MPO MTP Connector Structure



MPO MTP Polarity Method

