

MTP(MPO)-LC/SC Patch Cord



MTP/MPO Trunk Cable

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.

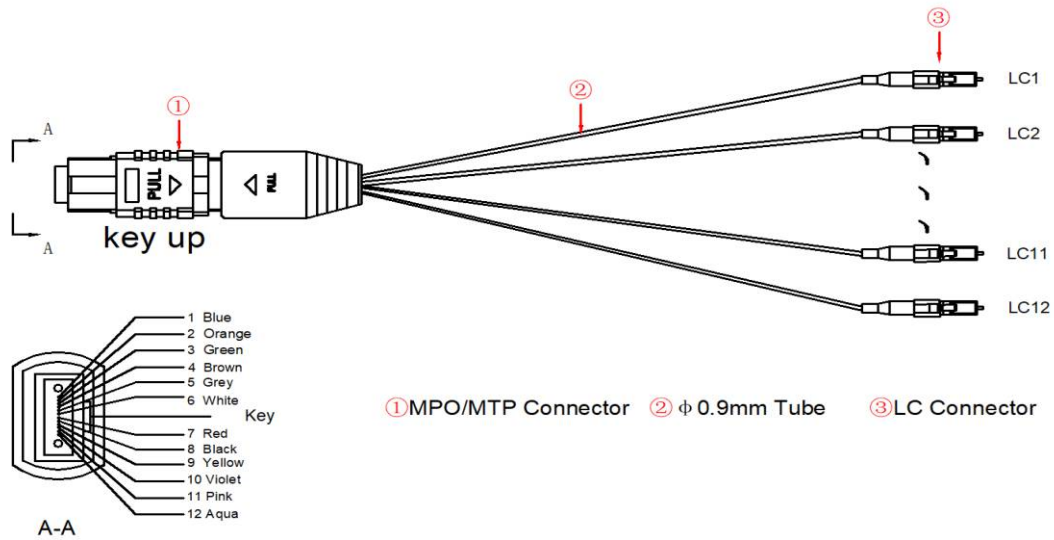
Features

- US Conec MTP® connector, Senko MPO Plus premium connector
- Corning Clearcurve® multimode fiber, SMF-28® Ultra optical fiber
- OS2, OM3, OM4 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

Standards Compliance

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

Technical Specification



Construction(MPO/MTP)

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	
Fiber Brand	Corning ClearCurve® multimode fiber and SMF-28® Ultra optical fiber	

Optical performance(LC/SC/FC/ST/MU)

Type	Unit	Description			
Model	--	SM		MM	
Polish	(dB)	UPC	APC	UPC	PC
Insertion Loss	(dB)	≤0.3	≤0.3	≤0.3	≤0.3
Return Loss	(dB)	≥50	≥60	≥30	--
Cable Diameter	--	Φ3.0, Φ2.0, Φ0.9			

Optical performance (MPO/MTP)

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 \geq 60, PC \geq 50		\geq 20 for PC		
M/F	--	Male:With Pins Female:Without Pins				
Wavelength	(nm)	Single Mode: 1310/1550 Multimode: 850/1300				
Transmission Distance	-	OM4: 150m at 40/100G, 550m at 10G OM3: 100m at 40/100G, 300m at 10G				

End face geometric parameters (MPO/MTP)

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 Adjl	(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

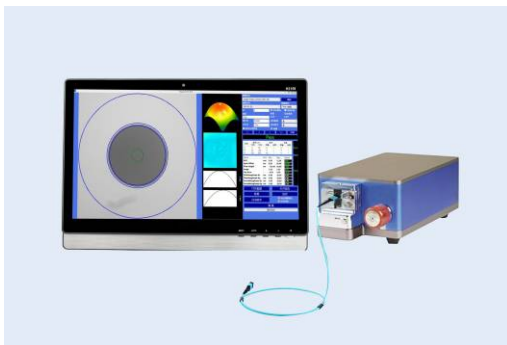
End face geometric parameters (LC/SC)

Type	Unit	Description			
		PC		APC	
		SC	MU/LC	SC	MU/LC
Radius of curvature	(mm)	10 - 25	7-25	5-12	
Fiber Height	(nm)	-100 - +50		-100 - +50	
Apex offset	(nm)	Max 50		Max 50	
Angle(Degree)	(°)	—		8±0.5	

Testing Center

Comprehensive performance testing system ensures more secure operation and keeps more stable and reliable data connection. 3D interferometer provides verification of MTP/MPO polishing process, and making all parameters of the polished MT ferrule complies and exceeds industry standards. Clean optical connectors are paramount in providing a reliable, high-performance fiber optic infrastructure.

Professional Test Equipment



3D Interferometer Test



End-Face Inspection



Insertion loss / return loss tester