

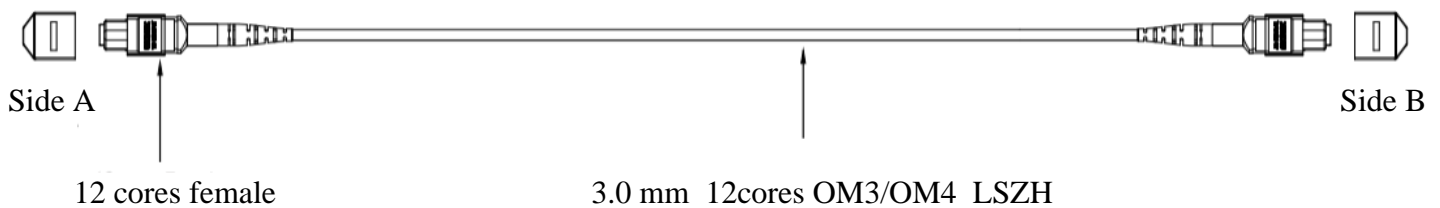
Excellent MPO-MPO Fiber Patch Cord 12 Core for Data Center Installation OM3 OM4 LSZH 2m

MPO-MPO Cable

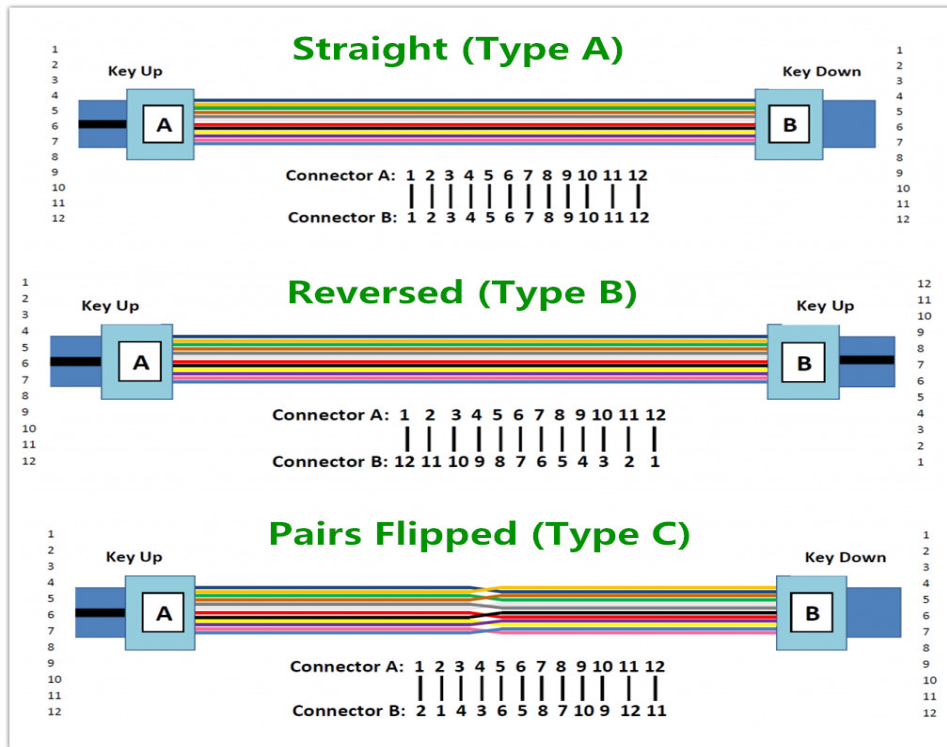
MPO trunk cable, a cost-effective alternative to time-consuming field termination, is designed for high-density fiber patching in data centers which need space saving and reduce cable management troubles.



Drawing :



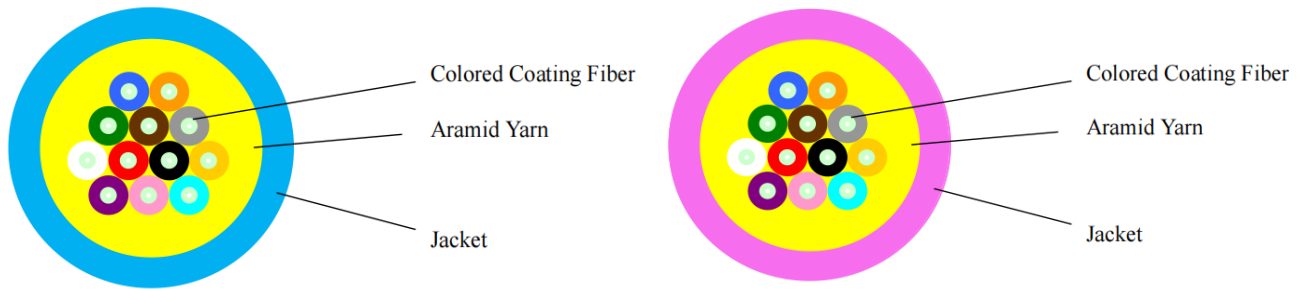
Type : polarity MPO cable



Connector Technical Parameter

Model		MM
Connector A:MPO		
Connector Fiber Count		12 Cores
Polish		PC
Insertion Loss	Standard	≤0.50dB
	Elite Low Loss	≤0.35dB
Return Loss		≥25dB
Durability(500 Matings)		≤0.2dB
Test Wavelength		850/1300nm
Connector B:MPO		
Polish		PC
Insertion Loss	Standard	≤0.50dB
	Elite Low Loss	≤0.35dB
Return Loss		≥25dB
Durability(500 Matings)		≤0.2dB
Test Wavelength		850/1300nm

Cable Structure Diagram



Cable Dimensions and Constructions

Items		Descriptions
Optical Fiber	Fiber count	12
	Color	Optical Fiber Chromatography
Strength Member	Material	Aramid yarn
Sheath	Material	LSZH
	Color	Rose red
	Diameter	3.0±0.10mm

Mechanical and Environmental Characteristics

Items		Descriptions	
Tensile Strength		short-term	200N
		long-term	100N
Crush Resistance		short-term	500N/100mm
		long-term	100 N/100mm
Temperature Range		- 2 0 C+ 6 0 C	
Bending Radius	Dynamic	≥20D	
	Static	≥10D	

Fiber Attenuation

The properties of multimode optical fiber (ITU-T Rec. OM4)

Characteristic	Condition	Data	Unit
Optical properties			
Attenuation	850nm	≤2.7	dB/km
	1300nm	≤0.6	dB/km
Full injection bandwidth	850nm	≥3500	MHz•Km
	1300nm	≥500	MHz•Km
Numerical aperture		0.200±0.015	
Zero dispersion wavelength		1295-1340	nm
A zero-dispersion slope	1295-1310	≤0.105	ps/(nm ² .km)
	1310-1340	≤0.000375	ps/(nm ² .km)
Group refractive index	850nm	1.482	
	1300nm	1.477	
The macro bend additional attenuation 100 CircleΦ75mm 4 CircleΦ30mm	850nm	≤0.5	dB
	1300nm	≤0.5	dB
	850nm	≤1.0	dB
	1300nm	≤1.0	dB
Geometric characteristics			
Core diameter		50±2.5	μm
Core roundness		≤5.0	
Cladding roundness		≤1.0	%
Cladding diameter		125.0±1.0	μm
Coating diameter		245±7	μm
Coating / package concentricity error		≤10.0	μm
Coating roundness		≤6.0	%
Core / package concentricity error		≤1.5	μm
Fiber length		≤17.6	Km/axis
Backscatter characteristics(1300nm)			
Steps(Mean value of two-way measurement)		≤0.1	dB
The irregularity of the length direction and the discontinuity of the point		≤0.1	dB
Attenuation inhomogeneity		≤0.08	dB/km
Environmental characteristics (850nm、1300nm)			
Temperature additional attenuation	-60℃ ~+85℃	≤0.1	dB/km
Temperature-humidity cycle additional attenuation	-10℃ ~+85℃, 4%~98% Relative humidity	≤0.1	dB/km
Flooding additional attenuation	23℃, 30 days	≤0.1	dB/km
Dry heat additional attenuation	85℃, 30 days	≤0.1	dB/km
Hot and humid additional attenuation	85℃ and 85% Relative humidity, 30 days	≤0.1	dB/km
Mechanical properties			
Screening tension		≥9.0	N
		≥1.0	%
		≥100	kpsi
Coating peeling force	Typical average value	Peak	N
			≥1.3 ≤8.9
Dynamic fatigue parameters(Nd,Typical value)		27	

OM3-150 50/125 μ m Technical data

OM3-150 50/125 μ m Technical data			
Characteristic	Condition	Data	Unit
Optical properties			
Attenuation	850nm 1300nm	≤ 2.5 ≤ 0.7	dB/km dB/km
Bandwidth	850nm 1300nm	≥ 700 ≥ 500	MHz.km MHz.km
Effective bandwidth	850nm	≥ 950	MHz.km
10Gb / s Ethernet link length		150	m
Numerical aperture (NA)		0.185~0.215	
The differential modulus delay DMD		850nm DMD Inner template (ps/m) (radius 5~18 μ m) ≤ 0.7	850nm DMD Inner template (ps/m) (radius 0~23 μ m) ≤ 0.7
Backscatter characteristics (1300nm)			
Partly discontinuous point		≤ 0.1	dB
Fiber attenuation inhomogeneity		≤ 0.1	dB
Bidirectional backscattering coefficient difference		≤ 0.1	dB/km
Geometric characteristics			
Core diameter		50 \pm 2.5	μ m
Cladding roundness		≤ 6.0	%
Coating diameter		125 \pm 2	μ m
Cladding roundness		≤ 2.0	%
Coating / cladding concentricity error		≤ 1.5	μ m
Coating diameter		245 \pm 10	μ m
Core / package concentricity error		≤ 12.0	μ m
Delivery length		1.1~8.8	km/reel
Environmental characteristics (850nm And 1300nm)			
Temperature additional attenuation	-60 $^{\circ}$ C ~+85 $^{\circ}$ C	≤ 0.15	dB/km
Flooding additional attenuation	-10 $^{\circ}$ C ~+85 $^{\circ}$ C, 98%Relative	≤ 0.20	dB/km
Hot and humid additional attenuation	23 $^{\circ}$ C \pm 2 $^{\circ}$ C	≤ 0.20	dB/km
Dry heat aging	85 $^{\circ}$ C \pm 2 $^{\circ}$ C和 85%	≤ 0.20	dB/km

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	Relative		
Mechanical properties	85°C±2°C	≤0.20	dB/km
Screening tension			
The macro bend Additional attenuation 100 laps Φ75mm		≥9.0	N
Coating peeling force	850nm&1300nm	≤0.5	dB
Dynamic fatigue parameters	Typical average	1.5	N
Dry heat aging		≥20	