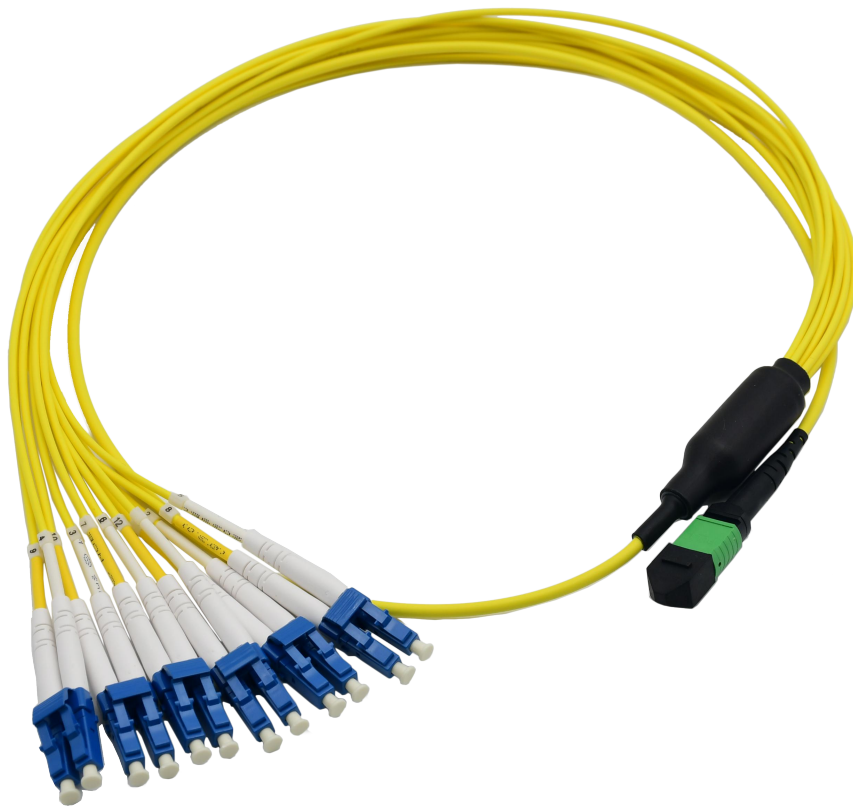


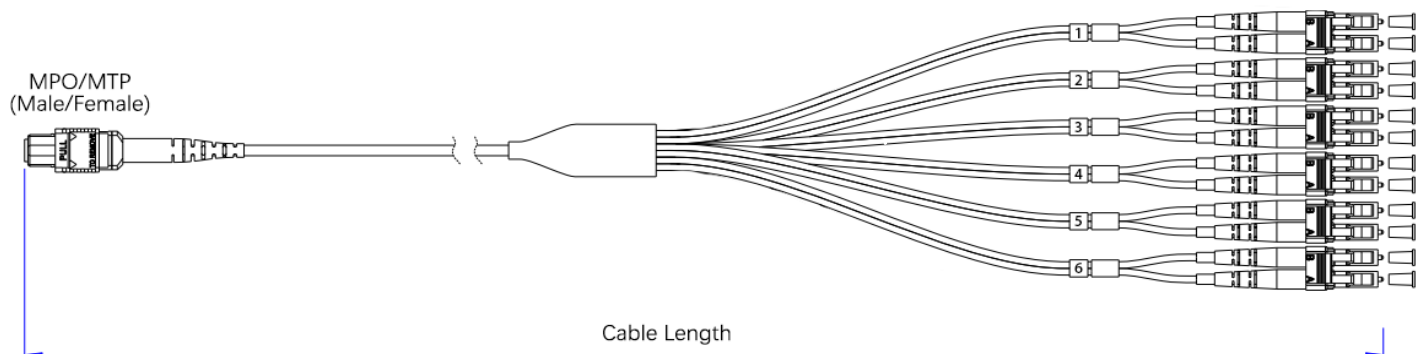
Shenzhen UnitekFiber Solution Limited

MTP MPO Fiber Patch Cord|MTP MPO-LC Fiber Patch Cable 12cores SM G657A1 Customized Length LSZH

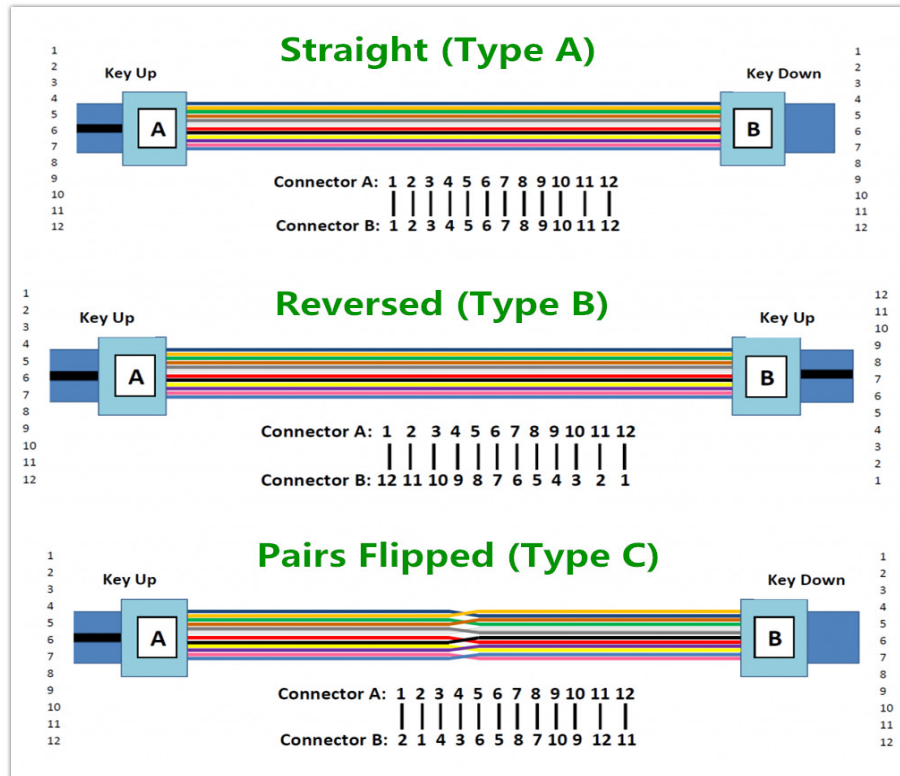
MPO cable, a cost-effective alternative to time-consuming field termination, is designed for high-density fiber patching in data centers which need space saving and reduce cable management troubles.



Drawings:



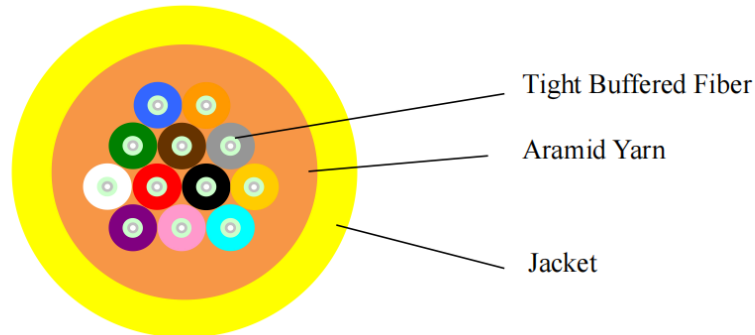
Polarity MPO cable



Connector Technical Parameter

Model		SM
Connector A:MPO		
Connector Fiber Count		12 Cores
Polish		APC
Insertion Loss	Standard Loss	$\leq 0.70\text{dB}$
Return Loss		$\geq 60\text{dB}$
Durability(500 Matings)		$\leq 0.2\text{dB}$
Test Wavelength		1310/1550nm
Connector B:LC		
Polish		UPC
Insertion Loss	Standard Loss	0.30dB
Return Loss		APC $\geq 50\text{dB}$ UPC $\geq 60\text{dB}$
Durability(500 Matings)		$\leq 0.2\text{dB}$
Test Wavelength		1310/1550nm

Cable Structure Diagram



Cable Dimensions and Constructions

Items		Specifications
Fiber count		12
Colored Coating Fiber	Diameter	850±15μm
	Color	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua
Strength member		Aramid Yarn
Outer Jacket	Diameter	6.0±0.2 mm
	Material	LSZH
	Color	Yellow

Mechanical and Environmental Characteristics

Items	Unite	Specifications
Tension(Long Term)	N	300
Tension (Short Term)	N	600
Crush (Long Term)	N/10cm	200
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20
Min. Bend Radius (Static)	mm	10
Operating Temperature	°C	-20~+60
Storage Temperature	°C	-20~+60

Fiber Attenuation

The properties of single mode optical fiber (ITU-T Rec. G.657A1)

Characteristic	condition	data	unit
Optical properties			
Attenuation	1310nm	≤ 0.35	dB/km
	1383nm(氢老化后)	≤ 0.35	dB/km
	1490nm	≤ 0.23	dB/km
	1550nm	≤ 0.22	dB/km
	1625nm	≤ 0.23	dB/km
Relative wavelength attenuation @1310nm @1550nm	1285~1330nm	≤ 0.05	dB/km
	1525~1575nm	≤ 0.05	dB/km
Dispersion in the wavelength range of	1285~1340nm	≤ 3.5	ps/(nm.km)
	1550nm	≤ 18	ps/(nm.km)
Zero dispersion wavelength		1300~1324	nm
A zero-dispersion slope		≤ 0.092	ps/(nm ² .km)
Polarization Mode Dispersion Coefficient PMD Single fiber maximum Fiber link value (M=20, Q=0.01%) Typical value		≤ 0.2 ≤ 0.1 0.04	ps/ ps/ ps/
Cable cut-off wavelength (λ_{cc})		≤ 1260	nm
Mode field diameter (MFD)	1310nm	8.8 ± 0.7	μm
	1550nm	49.8 ± 0.7	μm
Attenuation discontinuities	1310nm	5	dB
	1550nm	≤ 0.05	dB
Geometric characteristics		≤ 0.05	
Core diameter		125 ± 0.7	μm
Cladding roundness		≤ 0.7	%
Coating diameter		245 ± 5	μm
Coating / package concentricity error		≤ 12.0	μm
Core / package concentricity error		≤ 0.5	μm
The warpage (radius)		≥ 4	m
Environmental characteristics (1310nm、1550nm、1625nm)			
Temperature additional attenuation	-60℃ ~+85℃	≤ 0.05	dB/km



Temperature-humidity cycle additional attenuation	-10℃ ~+85℃ , 98% Relative humidity	≤0.05	dB/km
Flooding additional attenuation	23℃ , 30 days	≤0.05	dB/km
Hot and humid additional attenuation	85℃和 85% Relative humidity, 30 days	≤0.05	dB/km
Dry heat aging	85℃	≤0.05	dB/km
Mechanical properties			
Screening tension		≥9.0	N
The macro bend Additional attenuation			
10 CircleΦ30mm	1550nm	≤0.03	dB
10 CircleΦ30mm	1625nm	≤0.1	dB
1 CircleΦ20mm	1550nm	≤0.1	dB
1 CircleΦ20mm	1625nm	≤0.2	dB
1 CircleΦ15mm	1550nm	≤0.5	dB
1 CircleΦ15mm	1625nm	≤1.0	dB
Coating peeling force	Typical average	1.5	N
Dynamic fatigue parameters		≥20	

Packing

According to customer request.

Delivery Length

Standard Reel Length:0.5-2.0 km. ; According to customer request.

Marking

Cable Marker every Meter by

- Year of manufacture
- Type of Cable
- Number of fiber
- Cable length

According to customer or our company request .