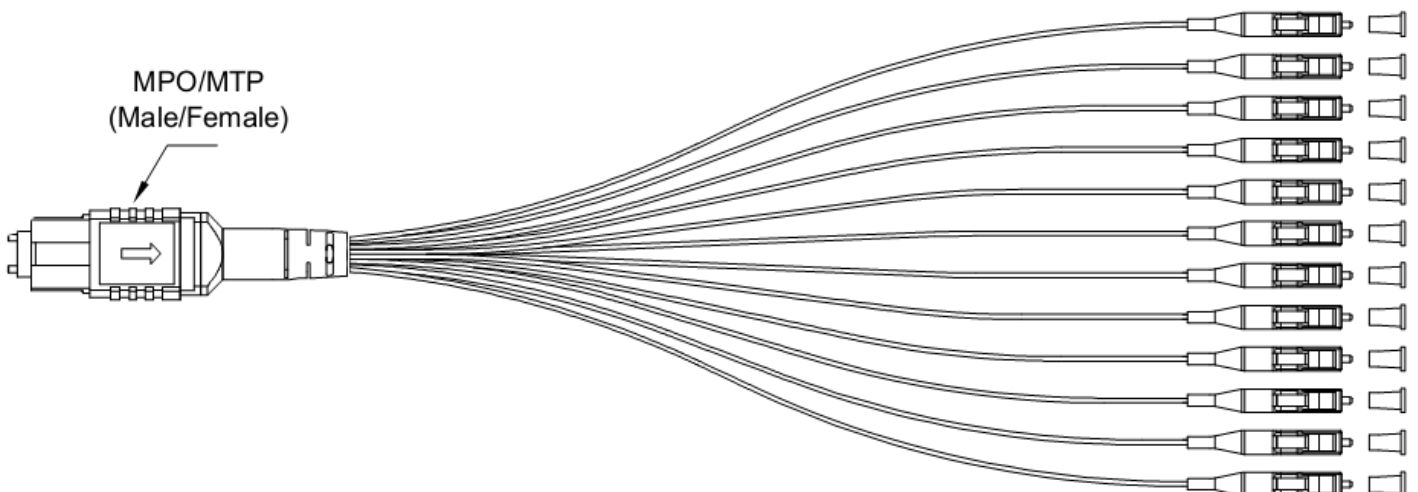


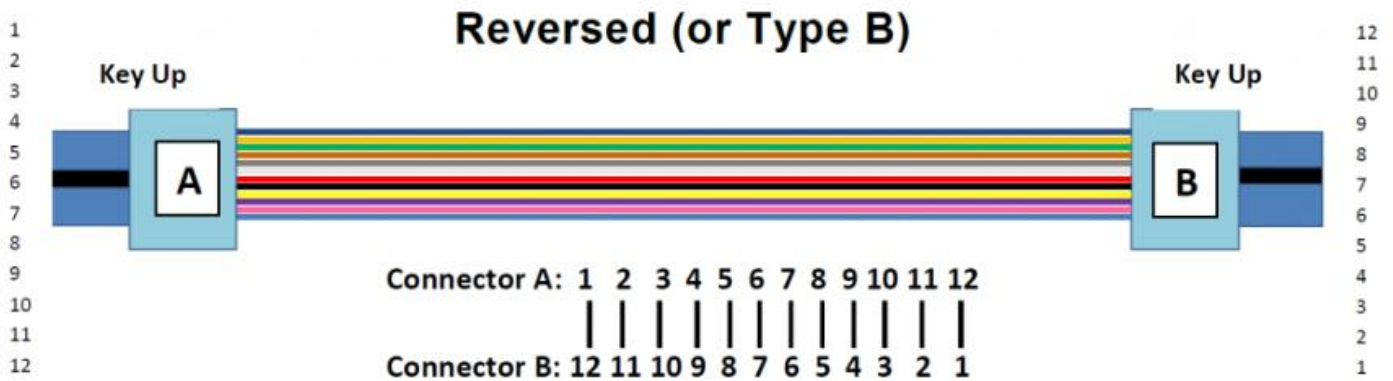
## 12Cores MTP to 12 LC MM OM4 Fiber Optic Jumper

### MTP-LC Cable

MTP branch fan-out optical cable component is to use high-density multi-core optical cable and MTP connector, and realize branch transfer from MTP to LC connectors through intermediate branch structure.



## Type-B polarity MTP cable



## Connector Technical Parameter

Model		MM
Connector A:MTP		
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:LC		
Polish		PC
Insertion Loss		≤0.2dB
Return Loss		≥30dB
Durability(500 Matings)		≤0.2dB
Test Wavelength		850/1300nm

# Shenzhen UnitekFiber Solution Limited

## Cable Structure Diagram



12-fiber ribbon fiber cable

## Cable Dimensions and Constructions

Items		Descriptions
Optical Fiber	Fiber count	12
	Color	Optical Fiber Chromatography
Sheath	Material	LSZH
	Color	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Purple, Pink, Aqua
	Diameter	850+50um

## Mechanical and Environmental Characteristics

Items		Descriptions
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
<b>Optical properties</b>			
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 <sup>2</sup> .km)
	1310-1340	≤0.000375	ps/(nm <sup>2</sup> .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
<b>Geometric characteristics</b>			
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
<b>Backscatter characteristics(1300nm)</b>			
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
<b>Environmental characteristics (850nm、1300nm)</b>			
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
<b>Mechanical properties</b>			
Screening tension		≥9.0	N
		≥1.0	%
		≥100	kpsi
Coating peeling force	Typical average Peak value	1.5	N
		≥1.3 ≤8.9	N
Dynamic fatigue parameters( Nd,Typical value)		27	

## **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
- Etc

According to customer or our company request .