

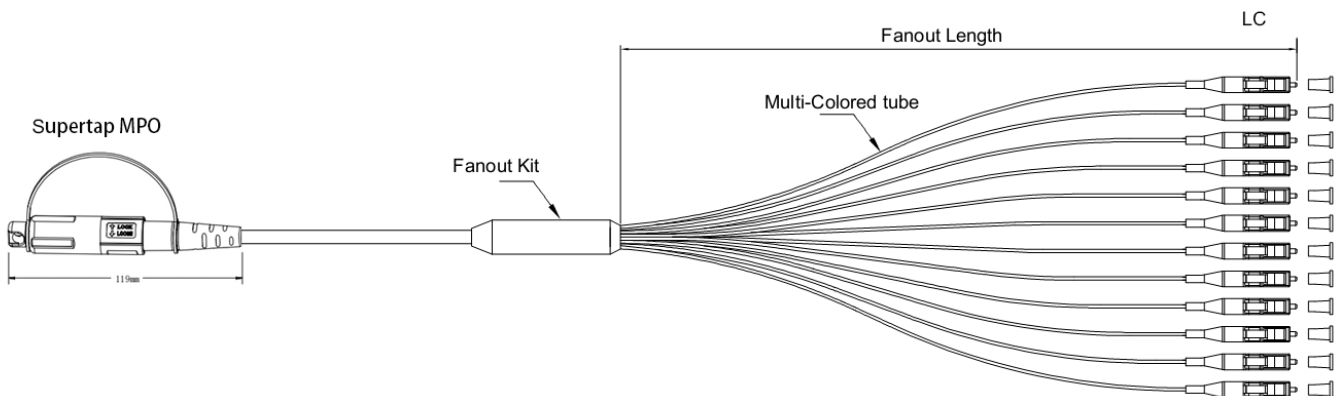
Shenzhen UnitekFiber Solution Limited

Fiber Optic Patch Cable|FTTA SuperTap LC-MPO/MTP Waterproof Outdoor Fiber Patch Cord SM OFNR

UnitekFiber provides waterproof Supertap fiber patch cord which provides superior weather resistance for FTTA and other outdoor applications. It ensures functionality in harsh weather environments, can be installed without special tooling and provides bend protection for installation and long-term use.



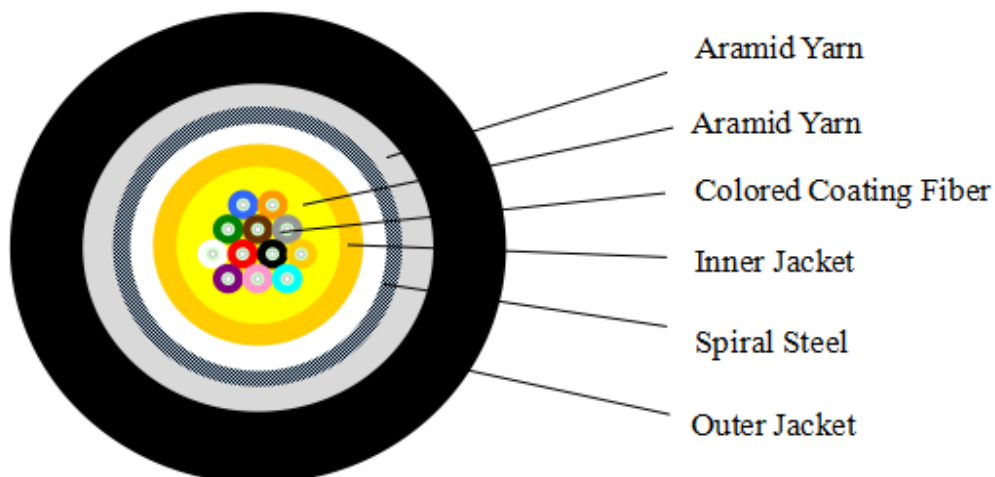
Drawings :



Connector Technical Parameter

Model		SM
Connector A:MPO		
Connector Fiber Count		12 Cores
Polish		APC
Insertion Loss	Standard	$\leq 0.70\text{dB}$
	Elite Low Loss	$\leq 0.35\text{dB}$
Return Loss		$\geq 60\text{dB}$
Durability(500 Matings)		$\leq 0.2\text{dB}$
Test Wavelength		1310nm&1550nm
Connector B: LC		
Insertion Loss	Standard Loss	0.30dB
Return Loss		UPC $\geq 50\text{dB}$ APC $\geq 60\text{dB}$
Durability(500 Matings)		$\leq 0.2\text{dB}$
Test Wavelength		1310nm&1550nm

Cable Structure Diagram



Cable Dimensions and Constructions

Items		Specifications
Fiber Count		12
Colored Coating Fiber	Dimension	250 μ m \pm 15 μ m
	Material	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua
Cable subunit	Diameter	1.9 \pm 0.1 mm
	Material	LSZH
	Color	Black
Spiral Steel	Dimension	2.8 \pm 0.2mm
	Material	Stainless steel
Jacket	Dimension	5.0 \pm 0.2mm
	Material	LSZH-OFNR
	Color	Black

Mechanical and Environmental Characteristics

Items	Unite	Specifications
Tension(Long Term)	N	400
Tension (Short Term)	N	800
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	3000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
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
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	ps/
		≤ 0.1	ps/
		0.04	
			ps/
Cable cut-off wavelength (λ_{cc})		≤ 1260	nm
Mode field diameter (MFD)	1310nm	8.8±0.4	μm
	1550nm	9.8±0.5	μm
Attenuation discontinuities	1310nm	≤ 0.05	dB
	1550nm	≤ 0.05	dB
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°C ~+85°C	≤ 0.05	dB/km
Temperature-humidity cycle additional attenuation	-10°C ~+85°C, 98% Relative humidity	≤ 0.05	dB/km
	23°C, 30 days	≤ 0.05	dB/km
Hot and humid additional attenuation	85°C 和 85% Relative humidity, 30 days	≤ 0.05	dB/km
Dry heat aging	85°C	≤ 0.05	dB/km
Screening tension		≥ 9.0	N
The macro bend Additional attenuation	10 CircleΦ30mm	1550nm	≤ 0.025
	10 CircleΦ30mm	1625nm	≤ 1.0
	1 CircleΦ20mm	1550nm	≤ 0.75
	1 CircleΦ20mm	1625nm	≤ 1.5
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
- Etc

According to customer or our company request .