

# Shenzhen UnitekFiber Solution Limited

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## Patchcord 7.0mm PDLC to PDLC Armored Fiber Optic Jumper FTTA IP67 Outdoor Cable Assembly

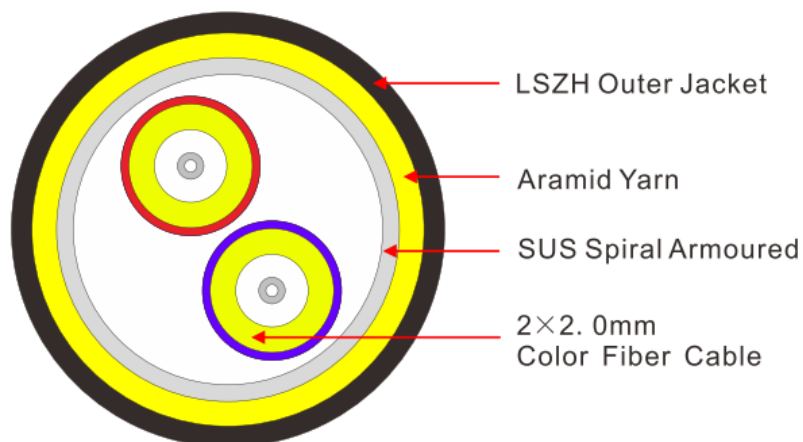
UnitekFiber provides waterproof Supertap fiber patch cord which provides superior weather resistance for FTTA and other outdoor applications. It ensures functionality in harsh weather environments, can be installed without special tooling and provides bend protection for installation and long



## Connector Technical Parameter

Model		SM
Connector A :PDLC		
Insertion Loss	Standard	0.30dB
Return Loss		UPC≥50dB APC≥60dB
Durability(500 Matings)		≤0.2dB
Test Wavelength		1310nm&1550nm
Connector B:PDLC		
Insertion Loss	Standard	0.30dB
Return Loss		UPC≥50dB APC≥60dB
Durability(500 Matings)		≤0.2dB
Test Wavelength		1310nm&1550nm

## Cable Structure Diagram



## Connector Technical Parameter

Items		Specifications
Fiber Count		2
Tight-buffered Fiber	Dimension	850±50μm
	Material	PVC
	Color	White
Simplex Cable	Dimension	1.9±0.1mm
	Material	LSZH
	Color	Yellow
	Printing Marks	1# ~ 2#
	Strength Member	Aramid Yarn
Spiral Steel	Dimension	5.2±0.2mm
	Material	Stainless steel Tube
Jacket	Dimension	7.0±0.2mm
	Material	LSZH
	Color	Black

## Cable Structure Diagram

Items	Unite	Specifications
Tension(Long Term)	N	300
Tension (Short Term)	N	600
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 <sup>2</sup> .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 <sub>cc</sub> )		≤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
<b>Geometric characteristics</b>			
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
Flooding additional attenuation	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	dB
10 CircleΦ30mm	1625nm	≤1.0	dB
1 CircleΦ20mm	1550nm	≤0.75	dB
1 CircleΦ20mm	1625nm	≤1.5	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
- Etc

According to customer or our company request .