

Shenzhen UnitekFiber Solution Limited

Fiber Optic Patch Cable|FTTA SuperTap LC-LC Waterproof Outdoor Fiber Patch Cord SM 5.0mm LSZH

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.



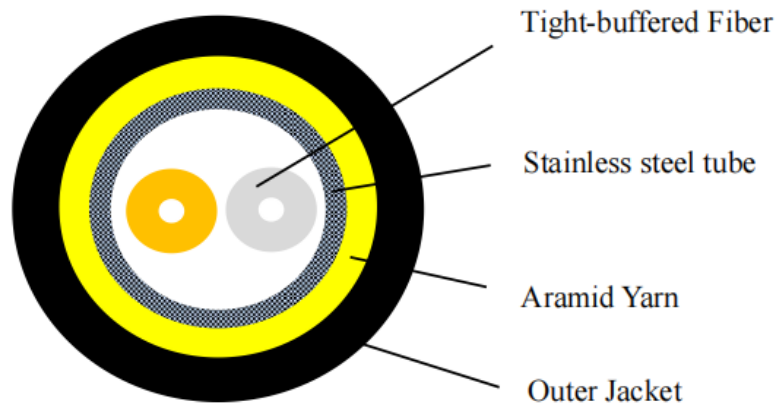
Drawings :



Connector Technical Parameter

| Model | | SM |
|---------------------------|---------------|---------------------------------|
| Connector A : Supertap LC | | |
| Insertion Loss | Standard Loss | 0.30dB |
| Return Loss | | UPC \geq 50dB APC \geq 60dB |
| Durability(500 Matings) | | \leq 0.2dB |
| Test Wavelength | | 1310nm&1550nm |
| Connector B:Supertap LC | | |
| Insertion Loss | Standard Loss | 0.30dB |
| Return Loss | | UPC \geq 50dB APC \geq 60dB |
| Durability(500 Matings) | | \leq 0.2dB |
| Test Wavelength | | 1310nm&1550nm |

Cable Structure Diagram



Cable Dimensions and Constructions

| Items | | Specifications |
|----------------------|-----------|----------------------|
| Fiber Count | | 2 |
| Tight-buffered Fiber | Dimension | 850±50μm |
| | Material | PVC |
| | Color | White / Yellow |
| stainless steel tube | Dimension | 2.8±0.2mm |
| | Material | Stainless steel tube |
| | Thickness | 0.22±0.02 mm |
| Jacket | Dimension | 5.0±0.2mm |
| | Material | OFNR-LSZH |
| | Color | Black |
| | Thickness | 1.0±0.1mm |

Mechanical and Environmental Characteristics

| Items | Unite | Specifications |
|----------------------------|--------|----------------|
| Tension (Long Term) | N | 600 |
| Tension (Short Term) | N | 1200 |
| Crush (Long Term) | N/10cm | 1200 |
| Crush (Short Term) | N/10cm | 3000 |
| Min. Bend Radius (Dynamic) | mm | 20D |
| Min. Bend Radius (Static) | mm | 10D |
| Operating Temperature | °C | -40~+85 |
| Storage Temperature | °C | -55~+85 |

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 | 1285~1330nm | ≤0.05 | dB/km |
| | @1310nm @1550nm | 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℃ ~+85℃ | ≤0.05 | dB/km |
| Temperature-humidity cycle additional attenuation | -10℃ ~+85℃, 98% Relative humidity | ≤0.05 | dB/km |
| | 23℃, 30 days | ≤0.05 | dB/km |
| Flooding additional attenuation | 85℃和 85% Relative humidity, 30 days | ≤0.05 | dB/km |
| Hot and humid additional attenuation | 85℃ | ≤0.05 | dB/km |
| Dry heat aging | | ≥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 |
| 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 .