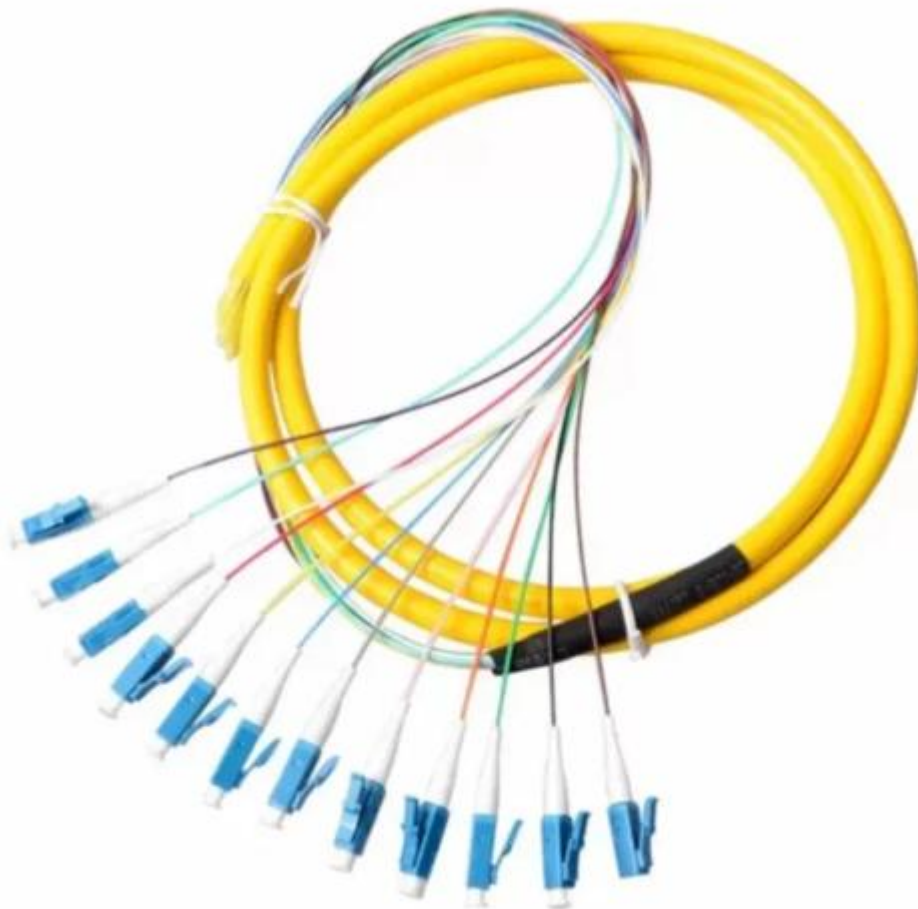


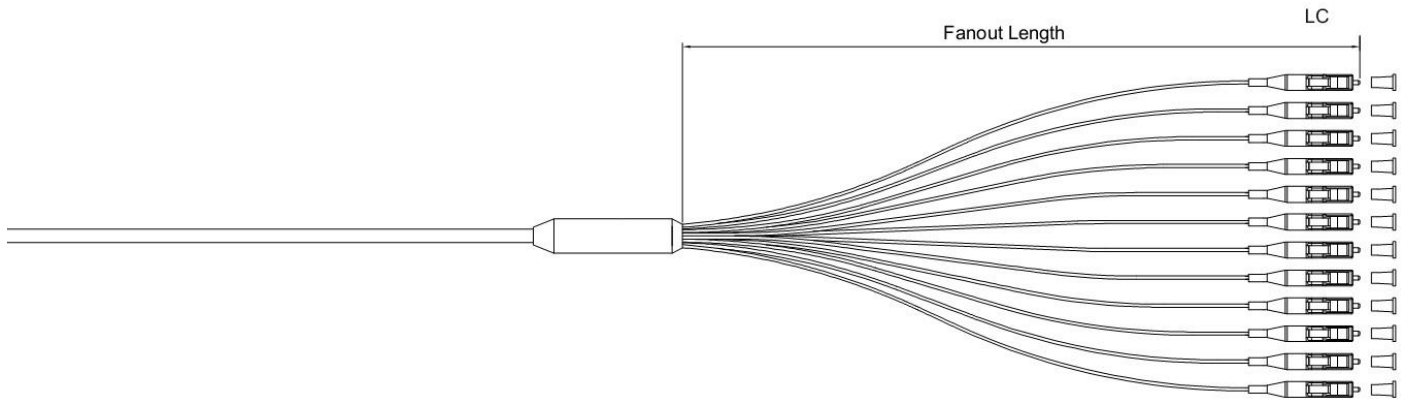
Bulk Fiber Optic Pigtail 12 Fibers LC SM G657A1 3M OFNR

LC Pigtail Cable

LC Pigtail Cable means that the terminations are connect at both ends of the optical cable to realize the optical path active connection. Optical Fiber Patch cord is similar to coaxial cable except that there is no mesh shield. The light-transmitting glass core is in the central. The fiber core has a diameter of 50/125 μm to 65/125 μm for multi mode fiber patch cords, which is roughly equivalent to the thickness of a human hair. The diameter for single mode fiber core is 8 μm to 10 μm . The fiber core is wrapped by a glass which is having a lower index of refraction than the core to maintain the fiber within the core



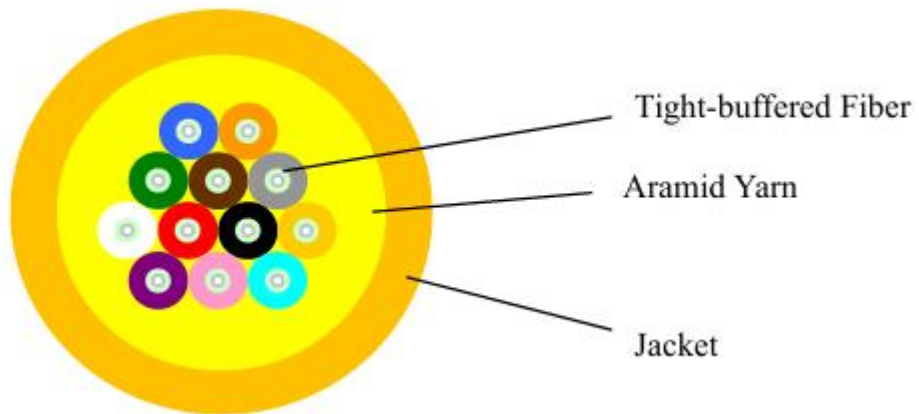
Drawings:



Connector Technical Parameter

| Model | | SM |
|-------------------------|----------|---------------|
| Connector A : LC | | |
| Insertion Loss | Standard | ≤0.3dB |
| Return Loss | | UPC≥50dB |
| Durability(500 Matings) | | ≤0.2dB |
| Test Wavelength | | 1310nm&1550nm |

Cable Structure Diagram



Cable Dimensions and Constructions

| Items | | Descriptions |
|----------------------|-------------|--|
| Tight-buffered Fiber | Dimension | 850±50μm |
| | Fiber Count | 12 |
| | Material | PVC |
| | Color | Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua |
| Strength Member | Material | Aramid Yarn |
| Sheath | Material | LSZH |
| | Color | Orange |
| | Diameter | 6.2mm |

Mechanical and Environmental Characteristics

| Items | Descriptions | |
|---------------------------|----------------|-------------|
| Tensile | short-term | 600N |
| | long-term | 300N |
| Crush | short-term | 1000 N/10cm |
| | long-term | 200 N/10cm |
| Min.Bend Radius (Dynamic) | mm | 20D |
| Min.Bend Radius (Static) | mm | 10D |
| Operating Temperature | - 2 0 C+ 6 0 C | |
| Temperature Range | -2 0 C+ 6 0 C | |

Fiber Attenuation

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

| Item | Specification |
|----------------|---------------|
| Fiber type | Single mode |
| Fiber material | Doped silica |

| | |
|--|----------------------------------|
| Attenuation coefficient | |
| @ 1310 nm | ≤ 0.36 dB/km |
| @ 1383 nm | ≤ 0.32 dB/km |
| @ 1550 nm | ≤ 0.22 dB/km |
| @ 1625 nm | ≤ 0.30 dB/km |
| Point discontinuity | ≤ 0.05 dB |
| Cable cut-off wavelength | ≤ 1260 nm |
| Zero-dispersion wavelength | 1300 ~ 1324 nm |
| Zero-dispersion slope | ≤ 0.092 ps/(nm ² .km) |
| Chromatic dispersion | |
| @ 1288 ~ 1339 nm | ≤3.5 ps/(nm. km) |
| @ 1271 ~ 1360 nm | ≤5.3 ps/(nm. km) |
| @ 1550 nm | ≤18 ps/(nm. km) |
| @ 1625 nm | ≤22 ps/(nm. km) |
| PMD _Q (Quadrature average*) | ≤0.2 ps/km ^{1/2} |
| Mode field diameter @ 1310 nm | 9.2±0.4 μm |
| Core / Clad concentricity error | ≤ 0.5 μm |
| Cladding diameter | 125.0 ± 0.7 μm |
| Cladding non-circularity | ≤1.0% |
| Primary coating diameter | 245 ± 10 μm |
| Proof test level | 100 kpsi (=0.69 Gpa), 1% |
| Temperature dependence | |
| 0°C~ +70°C @ 1310 & 1550nm | ≤ 0.1 dB/km |