

Fiber Optic Accessories

Soft Optical Fiber

Overview

Soft Optical Fiber use flame-retardant tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

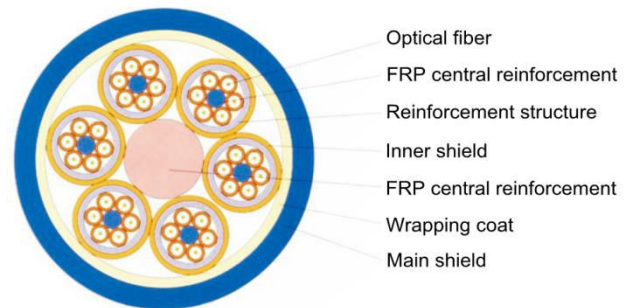


Features

- Available connectors type: FC, SC, ST, LC;
- Cable length and the adapter type are upon request;
- Suitable for processing into connector and joint with equipments directly;
- Available cable type: 24, 36, 48, 60, 84, 96 cores.

Application

- Optic fiber jumper or pigtail
- Indoor riser level and plenum level cable distribution
- Interconnect between instruments, communication equipments



Cable Parameters

| Fiber Count | Cable Dimension (mm) | Cable Weight (kg/km) | Tensile (N) | | Crush (N/ 100mm) | | Min. Bend Radius (mm) | | Range of Temperature (°C) |
|-------------|----------------------|----------------------|-------------|------------|------------------|------------|-----------------------|--------|---------------------------|
| | | | Long Term | Short Term | Long Term | Short Term | Dynamic | Static | |
| 4 | 7.5 | 45 | 200 | 400 | 300 | 1000 | 20D | 10D | -20 ~ +60 |
| 6 | 8.5 | 60 | 250 | 600 | 300 | 1000 | | | |
| 8 | 10.0 | 91 | 300 | 800 | 300 | 1000 | | | |
| 12 | 12.5 | 145 | 400 | 1000 | 300 | 1000 | | | |

Note: 1. All the values provided in the table, which are for your reference, are subject to change without notice;

2. The cable dimension and weight are subject to simplex cable of 2.0mm outer diameter;

3. D is outer diameter of the round cable;

4. The minimum bend radius (static) is 5D when G657 fiber is used.

Technical Specifications

| Parameters | FC/PC | FC/UPC | FC/APC |
|-------------------------------|-----------|--------|--------|
| Working Temperature (°C) | -40 — +80 | | |
| Insertion Loss (dB) | ≤0.25 | ≤0.25 | ≤0.25 |
| Return Loss (dB) | ≥45 | ≥50 | ≥60 |
| Endurance (Times) | ≥600 | ≥600 | ≥600 |
| Tensile strength (≥Φ1.0mm)(N) | ≥55N | ≥55N | ≥55N |

