

Simplex Fiber Optic Pigtails Datasheet

IDEAL FOR FIBER OPTIC CABLES SPLICING

Designed for CATV, FTTH/FTTX, telecommunication networks, premise installations, data processing networks, LAN/WAN network, and more.



Standard 900µm Buffered Fiber

Fiber optic pigtail is an important component commonly used in fiber optic networks. It has fiber connector at one end, and the other is utilised in terminating fiber optic cables via fusion or mechanical splicing. Feature a typical 900µm tight buffered as default, it is easy for fusion.

Standards Compliance

- ISO9001 and RoHS Compliant

Features

- Tested on optical performance insertion loss and return Loss.
- 0.9mm cable for high density splicing applications.
- Tight buffer for easy fusion or mechanical splicing.
- LC, ST, SC, FC and LSH are available.
- UPC and APC polish type.
- PVC jacket as default, OFNP and LSZH are optional.

Technical Specification

| Physical Characteristics | Description |
|---------------------------------|---|
| Fiber Count | Simplex |
| Fiber Mode | Single Mode: OS2; Multimode: OM1/OM2/OM3/OM4 |
| Connector Type | LC/SC/FC/ST/LSH |
| Fiber Grade | OS2: G.652.D; OM4/OM3/OM2: Bend Insensitive; OM1: G.651 |
| Cable Jacket | PVC (Riser/OFNR)/LSZH/Plenum (OFNP) |
| Jacket Color | OS2: Yellow; OM3/OM4: Aqua; OM1/OM2: Orange |
| Cable Diameter (mm) | 0.9/2.0 |
| Minimum Bend Radius (mm) | Single Mode: 30; Multimode: 7.5/15 |

| Optical Characteristics | Description |
|------------------------------|--|
| Insertion Loss (dB) | ≤0.3 |
| Return Loss (dB) | SMF: UPC≥50, APC≥60 (LC/SC/ST/FC) UPC≥55, APC≥75 (LSH) MMF: UPC≥30 (LC/SC/ST/FC/LSH) |
| Wavelength (nm) | SMF: 1310/1550; MMF: 850/1300 |
| Attenuation (dB/km) | SMF: ≤0.36 at 1310nm, ≤0.22 at 1550nm MMF: ≤3.0 at 850nm, ≤1.0 at 1300nm |
| Operating Temperature | -40°C to 75°C |
| Storage Temperature | -45°C to 85°C |

Strip Fiber Optic Pigtail

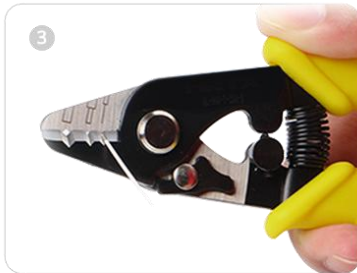
Before using the fiber, you should strip tight buffered fiber optic pigtail with tri-hole fiber stripper. If you do not remove all of the buffer coating, the fiber will not be able to be utilised in terminating fiber optic cables. The stripping steps are as follows.



- Strip the 900 μ m buffer coating(With the second hole)



- Down to the 250 μ m coating(With the smallest hole)



- Strip the 250 μ m coating(With the smallest hole)



- Get the 125 μ m glass fiber

Notes:

- It is recommended to heat the pigtail appropriately before you strip the 0.9mm buffer.
- Only a short length (1-2cm) of the pigtail is suggested to be stripped in one action.

Hot Products

| ID | Description |
|--------|--|
| #42472 | 1m (3ft) SC APC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail |
| #50013 | 1m (3ft) LC UPC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail |
| #42485 | 1m (3ft) SC UPC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail |
| #72812 | Fiber Optical Stripper with Three Holes |



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