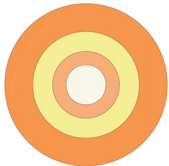
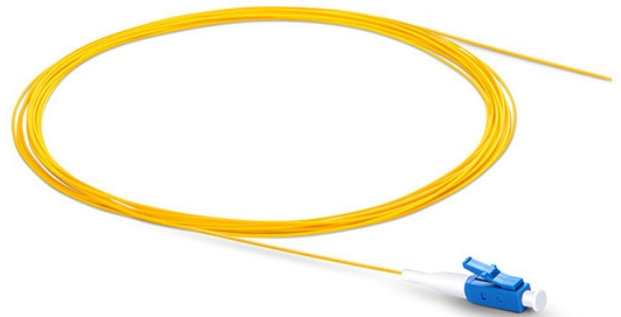
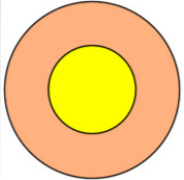


Fiber Optic Pigtail



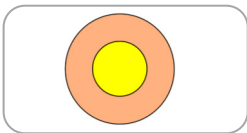
Fiber Optic Pigtail

Description

The fiber optic pigtail is normally a simple fiber cable with a connector pre terminated on one end and exposed fiber on the other. The end is stripped and fusion spliced to a single or multi-fiber trunk. When utilized properly, the fiber optic pigtail allows light signal transmission with minimal return loss and low attenuation. Make sure your network is reinforced with the fiber pigtails, as ours are manufactured of superior quality materials.

The Pigtail are available in both single and multimode versions with either APC or UPC polish types. Our fiber pigtails come with a partial outer jacket protecting the Tight/Loose buffers from damage. If installed in a high density application, the outer jacket can be easily removed to accommodate a tighter bend radius for the pigtails.

Products Materials



G652D, G657A1, G657A2/B2, G657B3, OM1, OM2, OM3, OM4, OM5 Fibers

900um, 1.2mm, 1.6mm, 1.7mm, 1.8mm, 2.0mm, 2.4mm, 2.6mm, 2.8mm OD cable

PVC (Riser/OFNR), LSZH, Plenum (OFNP) Jacket materials



High quality SM Ceramic ferrule, Good concentricity < 0.5um

High quality MM Ceramic ferrule, Good concentricity < 4.0um



Standard connectors LC, SC, ST, FC, E2000, MU, D4, Din, LX.5, SMA are available

High precious connector guarantee Good Repeatability and Interchangeability

OEM Housing kits Color, OEM boot Colors

Standard Compliance

- TIA 604 (FOCIS)
- TIA/EIA 492AAAE
- IEC 61754
- IEC 60793-2-10
- IEC 61300-3-35
- YD/T1272.1-2003
- RoHS, ISO9001 Compliant

Features

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- 100% optically tested for insertion loss to ensure high quality

Application

- Data Center
- Enterprise
- Fiber to the X (FTTX)
- LAN and WAN
- CATV Network
- Telecommunications Network

Fiber Optic Pigtail

Connector Type

LC

Standard boot . Short boot

Typical Applications : High-density connections, SFP and SFP+ transceivers, XFP transceivers.



SC

Standard boot , Short boot

Typical Applications : Telecom; GPON; EPON; GBIC.



FC

Standard boot

Typical Applications : Datacom, Telecom, measurement equipment, single-mode lasers



ST

Standard boot

Typical Applications : Datacom



E2000

Typical Applications : Telecom, DWDM

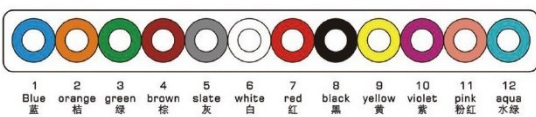


MU: Standard boot Typical

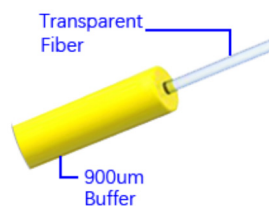
Applications: LAN, Telecommunication Network



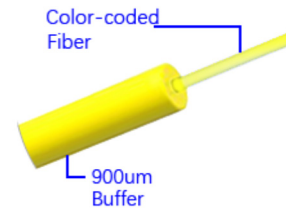
Available for 12 colors, The 900um buffer and fiber same color coded



Standard 900um Cable



Color-coded 900um Cable





Fiber Optic Pigtail

Connector Standard

- SC:** TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.
- LC:** TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973.
- FC:** EIA /TIA-604-04, FOCIS4, NTT-FC, GR-326. IEC61754-13 and JIS C5973
- ST:** TIA/EIA, FOCIS2, GR-326. IEC61754-2 and JIS C5973 Etc.
- MU:** TIA/EIA-604-3A, GR-326.NTT-MU, JIS and IEC.
- E2000:** IEC61754-15

Optical Specifications

| | | | |
|------------------------------|--|------------------------------|--|
| Insertion loss | ≤0.25dB Mean (Standard) | Interchangeability | ≤0.2dB |
| Return loss | SM UPC≥50dB SM APC≥60dB MM PC≥35dB | Vibration | ≤0.2dB |
| Operating temperature | -40~75°C | Maximum pulling force | 6N(900um cable) 70N(2.0mm cable) 100N(3.0mm cable) |

Geometric Specification

| Items | | Parameter | |
|------------------------|----------|-----------|---------|
| Polishing | | PC | APC |
| ROC | SC/FC/ST | 10 ~ 25 | 5 ~ 12 |
| | LC/MU | 7~ 25 | 5 ~ 12 |
| Apex Offset | | ≤ 50 | |
| Fiber Spherical Height | | ±100 | |
| Angle | | ± 0.5 | 8 ± 0.5 |

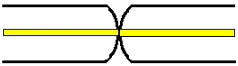
Fiber Optic Pigtail



Polishing End-face

Polishing Method

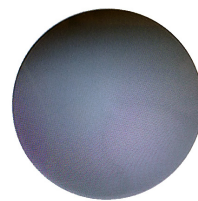
UPC(Ultra-Polished connector)



APC(8 Angled Polished connector)



SM UPC



SM APC



MM PC

End-face Quality (SM)

| Zone | Range (µm) | Scratches | Defects | Reference |
|--------------------|------------|-----------|---------|---------------------|
| A: Core | 0 to 25 | None | None | IEC 61300-3-35:2015 |
| B: Cladding | 25 to 115 | None | None | |
| C: Adhesive | 115 to 135 | None | None | |
| D: Contact | 135 to 250 | None | None | |
| E: Rest of ferrule | | None | None | |

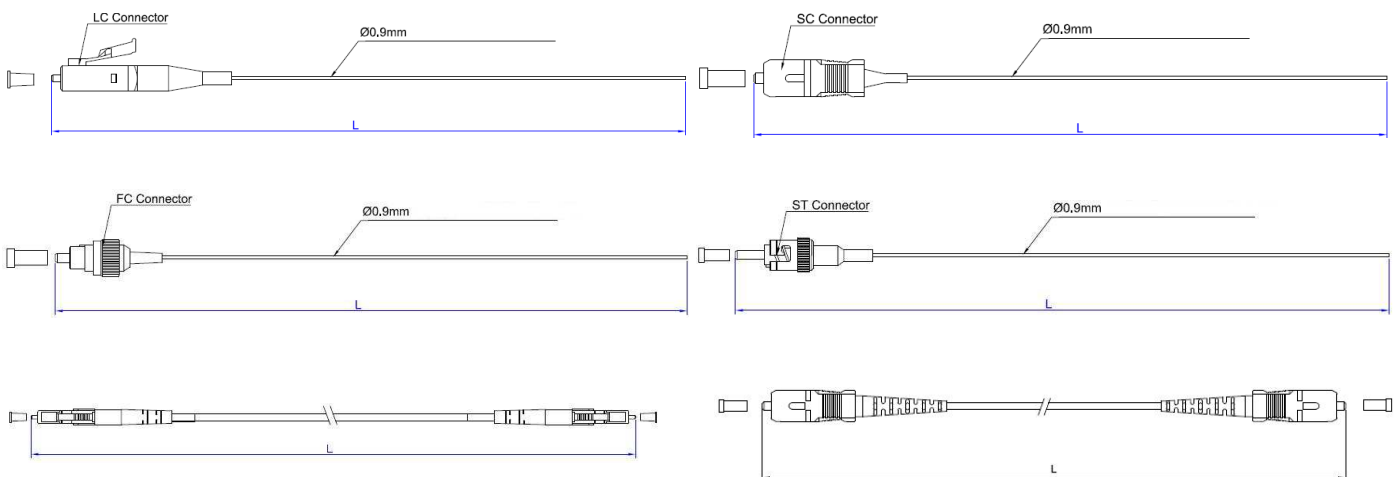
End-face Quality (MM)

| Zone | Range (µm) | Scratches | Defects | Reference |
|--------------------|------------|-----------|---------|---------------------|
| A: Core | 0 to 65 | None | None | IEC 61300-3-35:2015 |
| B: Cladding | 65 to 115 | None | None | |
| C: Adhesive | 115 to 135 | None | None | |
| D: Contact | 135 to 250 | None | None | |
| E: Rest of ferrule | | None | None | |

Fiber Optic Pigtail

Length Tolerance

| Overall Length(L) | length of |
|-------------------|--------------|
| 0<L<1 | +5/-0 |
| 1<L<10 | +10/-0 |
| 10<L<40 | +15/-0 |
| 40<L | +0.5% x L/-0 |



Ordering Information

| Model Number | Description |
|-------------------|---|
| IK-FOP-SC-SM-SX-1 | Fiber Optic Pigtails - SC - SM - 1m - Simplex |
| IK-FOP-LC-SM-SX-1 | Fiber Optic Pigtails - LC - SM - 1m - Simplex |
| IK-FOP-SC-MM-M3-2 | Fiber Optic Pigtails - SC - MM - OM3 - 2m |
| IK-FOP-SC-MM-M4-2 | Fiber Optic Pigtails - SC - MM - OM4 - 2m |
| IK-FOP-LC-MM-M3-2 | Fiber Optic Pigtails - LC - MM - OM3 - 2m |
| IK-FOP-LC-MM-M4-2 | Fiber Optic Pigtails - LC - MM - OM4 - 2m |
| IK-FOP-LC-MM-M4-3 | Fiber Optic Pigtails - LC - MM - OM4 - 3m |