



UFP980S3X-XX  
 UFP980S2X-XX  
 UFP980S0X-XX

UFP580S3X-XX  
 UFP580S2X-XX  
 UFP580S0X-XX

UFP480S3X-XX  
 UFP480S2X-XX  
 UFP480S0X-XX

UFP380S3X-XX  
 UFP380S2X-XX  
 UFP380S0X-XX

UFP280S3X-XX  
 UFP280S2X-XX  
 UFP280S0X-XX



### Scope of Application

This specification covers the general requirements for fiber optic pigtail, The cables are high grade simplex cable available FR-LSZH. The pigtails are low insertion loss and high return loss. Good in repeatability and exchangeability. The pigtail shall be factory assembled with high quality control and 100% test. Provide label for easily to identify. Cables are available on 900 μm (0.9 mm.) buffered fiber, and 2.0 mm., 3.0 mm. cordage connectorized on one end. The cord shall be available length in 1.5, 3, and 5meters or other.

LINK fiber optic pigtail support application such as 25/40/50/100/200/400Gbps Ethernet, IEEE802.3ae 10G Ethernet, IEEE802.3z Gigabit Ethernet, IEEE802.3u Fast Ethernet, 52/155/622Mbps, 1.2Gbps ATM, FDDI, Fiber channel, FTTx, CATV, CCTV and others.

### Drawing



### Technical Standard

- |                                      |                             |
|--------------------------------------|-----------------------------|
| • ANSI/TIA-568.3-E                   | ISO/IEC 11801:2017          |
| • ANSI/TIA-568.3-D                   | ISO/IEC 11801:2011 (Ed.2.2) |
| • ANSI/ICEA 596                      | IEC 60793, IEC 60794        |
| • FOTP EIA/TIA-455                   | IEC 61300-2, IEC 61300-3    |
| • ITU-T G.652D, G.657A1 (Singlemode) | TIA/EIA-604, FOCIS 4        |
| • ITU-T G.651 (Multimode)            | RoHS Compliant, EN 50173-1  |
| • GR 326 CORE (Singlemode)           | UL, FR-LSZH, OFNR           |



## OPTICAL FIBER

| Items                                |                          | Specifications  |
|--------------------------------------|--------------------------|---|
| Fiber Type                           |                          | 9/125 $\mu\text{m}$ (OS2)   |
| Max. / Typ. Attenuation              | 1310 nm                  | $\leq 0.35/0.33$ dB/km  |
|                                      | 1383 nm                  | $\leq 0.35/0.31$ dB/km  |
|                                      | 1550 nm                  | $\leq 0.21/0.19$ dB/km  |
|                                      | 1625 nm                  | $\leq 0.23/0.20$ dB/km  |
| Core                                 | Mode Field Diameter      | 9.2 $\pm$ 0.4 $\mu\text{m}$ @ 1310 nm<br>10.4 $\pm$ 0.5 $\mu\text{m}$ @ 1550 nm |
| Cladding Diameter                    |                          | 125 $\pm$ 0.7 $\mu\text{m}$   |
| Coating Diameter, Primary            |                          | 242 $\pm$ 5 $\mu\text{m}$   |
| Coating Diameter, Secondary          |                          | 250 $\pm$ 5 $\mu\text{m}$   |
| Cladding Non-circularity             |                          | $\leq 0.7$ %  |
| Core/Cladding Concentricity error    |                          | $\leq 0.5$ $\mu\text{m}$  |
| Coating/Cladding Concentricity error |                          | $\leq 12$ $\mu\text{m}$   |
| Attenuation (Homogeneity)            |                          | Max 0.1 dB/km   |
| Zero Dispersion Wavelength           |                          | 1300 ~ 1324 nm  |
| Zero Dispersion Slope                |                          | $\leq 0.092$ ps/(nm <sup>2</sup> .km)   |
| Cut-off Wavelength                   | $\lambda_0$ (Fiber)      | 1150 ~ 1330 nm  |
|                                      | $\lambda_\infty$ (Cable) | $\leq 1260$ nm  |
| Proof Test Stress                    |                          | 100 Kpsi  |
| Chromatic Dispersion                 | $\lambda$ ; 1285~1340 nm | $\leq 3.5$ ps/nm.km   |
|                                      | $\lambda = 1550$ nm      | $\leq 18$ ps/nm.km  |
|                                      | $\lambda = 1625$ nm      | $\leq 22$ ps/nm.km  |
| Polarization mode dispersion (PMD)   |                          | $\leq 0.20$ ps/ $\sqrt{\text{km}}$  |
| Fiber Curl                           |                          | $\geq 4\text{M}$  |
| Numerical Aperture                   |                          | 0.130 $\pm$ 0.010   |
| Group refractive index               | 1310 nm                  | 1.4676  |
|                                      | 1550 nm                  | 1.4682  |

**Table 1** The Optical, Geometrical Performance of the Singlemode Fiber (The specification conforms to the requirement of ISO/IEC11801, ANSI/TIA-568.3-E, IEC 60793-2B1.3, ITU-T G.652D)



## OPTICAL FIBER

| Items  |         | Specifications          |                         |                         |                         |
|--|---------|-------------------------|-------------------------|-------------------------|-------------------------|
|  |         | 50/125 $\mu$ m<br>(OM2) | 50/125 $\mu$ m<br>(OM3) | 50/125 $\mu$ m<br>(OM4) | 50/125 $\mu$ m<br>(OM5) |
| Fiber Type                                       | 850 nm  | $\leq 2.7 / \leq 2.5$   | $\leq 2.7 / \leq 2.3$   | $\leq 2.7 / \leq 2.3$   | $\leq 2.7 / \leq 2.3$   |
|  | 1300 nm | $\leq 0.8 / \leq 0.7$   | $\leq 0.8 / \leq 0.6$   | $\leq 0.8 / \leq 0.6$   | $\leq 0.8 / \leq 0.6$   |
|  | 953 nm  | N.A                     | N.A                     | N.A                     | $\leq 2.3 / \leq 2.0$   |
| Max./ Typ. Attenuation (dB/km)                   | 850 nm  | $\geq 500$              | $\geq 1500$             | $\geq 3500$             | $\geq 3500$             |
|  | 1300 nm | $\geq 500$              | $\geq 500$              | $\geq 500$              | $\geq 500$              |
|  | 953 nm  | N.A                     | N.A                     | N.A                     | $\geq 1850$             |
| Bandwidth (MHz/km)                               | 850 nm  | N.A                     | $\geq 2000$             | $\geq 4700$             | $\geq 4700$             |
|  | 1300 nm | N.A                     | N.A                     | N.A                     | $\geq 2470$             |
|  | 953 nm  | N.A                     | N.A                     | N.A                     | $\geq 2470$             |
| 850nm Laser Bandwidth (MHz/km)                   |         | N.A                     | $\geq 2000$             | $\geq 4700$             | $\geq 4700$             |
| 953nm Laser Bandwidth (MHz/km)                   |         | N.A                     | N.A                     | N.A                     | $\geq 2470$             |
| Core Diameter ( $\mu$ m)                         |         | $50.0 \pm 2.5$          | $50.0 \pm 2.5$          | $50.0 \pm 2.5$          | $50.0 \pm 2.5$          |
| Cladding Diameter ( $\mu$ m)                     |         | $125 \pm 1$             | $125 \pm 1$             | $125 \pm 1$             | $125 \pm 1$             |
| Core Non-circularity (%)                         |         | $\leq 5$                | $\leq 5$                | $\leq 5$                | $\leq 5$                |
| Cladding Non-circularity (%)                     |         | $\leq 1.0$              | $\leq 1.0$              | $\leq 1.0$              | $\leq 1.0$              |
| Core/Cladding Concentricity error ( $\mu$ m)     |         | $\leq 1.5$              | $\leq 1.5$              | $\leq 1.5$              | $\leq 1.5$              |
| Coating Diameter, Primary ( $\mu$ m)             |         | $242 \pm 5$             | $242 \pm 5$             | $242 \pm 5$             | $242 \pm 5$             |
| Coating Diameter, Secondary ( $\mu$ m)           |         | $250 \pm 5$             | $250 \pm 5$             | $250 \pm 5$             | $250 \pm 5$             |
| Coating Non-Circularity (%)                      |         | $\leq 5$                | $\leq 5$                | $\leq 5$                | $\leq 5$                |
| Coating/Cladding Concentricity error ( $\mu$ m)  |         | $\leq 12$               | $\leq 12$               | $\leq 12$               | $\leq 12$               |
| Attenuation (Homogeneity)                        |         | Max 0.1 dB/km           | Max 0.1 dB/km           | Max 0.1 dB/km           | Max 0.1 dB/km           |
| Proof Test Stress (kpsi)                         |         | 100                     | 100                     | 100                     | 100                     |
| Bending Loss @ 850 & 1300 nm (100 turns,         |         | $\leq 0.5$ dB           | $\leq 0.5$ dB           | $\leq 0.5$ dB           | $\leq 0.5$ dB           |
| Zero-Dispersion Wavelength                       |         | 1295~1315nm             | 1295~1315nm             | 1295~1315nm             | 1295~1315nm             |
| Zero-Dispersion Slope (ps/(nm <sup>2</sup> .km)) |         | $\leq 0.101$            | $\leq 0.101$            | $\leq 0.101$            | $\leq 0.101$            |
| Numerical Aperture                               |         | $0.200 \pm 0.015$       | $0.200 \pm 0.015$       | $0.200 \pm 0.015$       | $0.200 \pm 0.015$       |
| Group refractive index                           | 850 nm  | 1.482                   | 1.482                   | 1.482                   | 1.482                   |
|  | 1300 nm | 1.477                   | 1.477                   | 1.477                   | 1.477                   |

**Table 2** The optical, Geometrical Performance of the Multimode Fiber (The specification conforms to the requirement of ISO/IEC11801, ANSI/TIA-568.3-E, IEC 60793-2A1a, IEC 60793-2A1b, ITU -T G.651)



## PIGTAIL CONSTRUCTIONS AND MECHANICAL

The construction of the cable shall be in accordance with Table 3 below.

| Items                    | Specifications                 |
|--------------------------|--------------------------------|
| Ferrule                  | Zirconia ceramic, Pre-radiused |
| Boot                     | Thermoplastic, UL 94-0         |
| FC Housing               | Brass with nickel plated       |
| Jacket                   | FR-LSZH and OFNR (UL-1666)     |
| Cable Diameter (Approx.) | 3.0 mm., 2.0 mm. and 0.9 mm.   |
| Pulling Force            | 200 N                          |
| Minimum Bending Radius   | 30 mm.                         |

**Table 3** Construction and Mechanical of fiber optic pigtail.

## PERFORMANCE

| Items                   |      | SINGLEMODE  | MULTIMODE            |
|-------------------------|------|-------------|----------------------|
|                         |      | (OS2)       | (OM2, OM3, OM4, OM5) |
| Insertion Loss          | Typ. | ≤ 0.15 dB   | ≤ 0.15 dB            |
|                         | Max. | ≤ 0.30 dB   | ≤ 0.30 dB            |
| Return Loss             | UPC  | ≥ 50 dB     | ≥ 26 dB              |
|                         | APC  | ≥ 60 dB     | -                    |
| Durability/Mating Cycle |      | ≥ 500 Cycle | ≥ 500 Cycle          |

## TEMPERATURE RANGE

- Operation Temperature: -40°C to 85°C
- Storage/Shipping Temperature: -40°C to 85°C

## ORDER INFORMATION

FC FIBER OPTIC PIGTAIL, SIMPLEX, FR-LSZH AND OFNR

| Descriptions                 | Part Number       |                    |                    |                    |                    |
|------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
|                              | 9/125 μm<br>(OS2) | 50/125 μm<br>(OM2) | 50/125 μm<br>(OM3) | 50/125 μm<br>(OM4) | 50/125 μm<br>(OM5) |
| FC Pigtail, Simplex, 3.0 mm. | UFP980S3X-XX      | UFP580S3X-XX       | UFP480S3X-XX       | UFP380S3X-XX       | UFP280S3X-XX       |
| FC Pigtail, Simplex, 2.0 mm. | UFP980S2X-XX      | UFP580S2X-XX       | UFP480S2X-XX       | UFP380S2X-XX       | UFP280S2X-XX       |
| FC Pigtail, Simplex, 0.9 mm. | UFP980S0X-XX      | UFP580S0X-XX       | UFP480S0X-XX       | UFP380S0X-XX       | UFP280S0X-XX       |

X = Polish Contact, 0 : PC, 1 : UPC, 2 : APC

XX = Length, 1.5 : 1.5 meters, 03 : 3 meters, or available on request.

Specifications subject to change without notice.

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