



UFP920S3X-XX
UFP920S2X-XX
UFP920S0X-XX

UFP520S3X-XX
UFP520S2X-XX
UFP520S0X-XX

UFP420S3X-XX
UFP420S2X-XX
UFP420S0X-XX

UFP320S3X-XX
UFP320S2X-XX
UFP320S0X-XX

UFP220S3X-XX
UFP220S2X-XX
UFP220S0X-XX

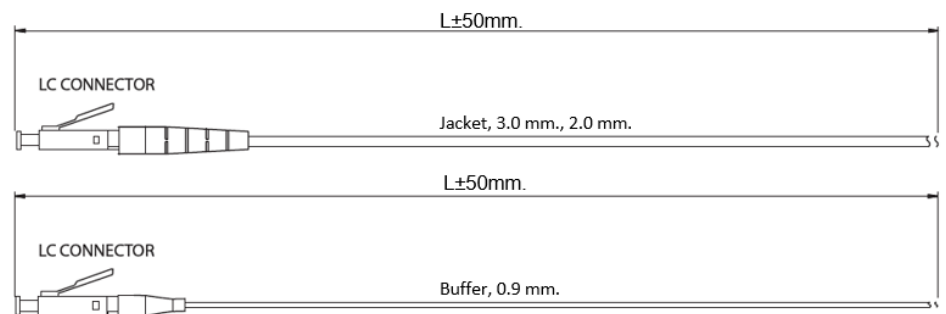


Scope of Application

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 μ m (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 5 meters 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, IEC 61755 |
| • FOTP EIA/TIA-455 | IEC 61300-2, IEC 61300-3 |
| • ITU-T G.652D, G.657A1 (Singlemode) | TIA/EIA-604, FOCIS 10 |
| • 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 μm (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 μm @ 1310 nm 10.4 $\pm$ 0.5 μm @ 1550 nm
Cladding Diameter		125 $\pm$ 0.7 μm
Coating Diameter, Primary		242 $\pm$ 5 μm
Coating Diameter, Secondary		250 $\pm$ 5 μm
Cladding Non-circularity		≤ 0.7 %
Core/Cladding Concentricity error		≤ 0.5 μm
Coating/Cladding Concentricity error		≤ 12 μm
Attenuation (Homogeneity)		Max 0.1 dB/km
Zero Dispersion Wavelength		1300 ~ 1324 nm
Zero Dispersion Slope		≤ 0.092 ps/(nm ² .km)
Cut-off Wavelength	λ_o (Fiber)	1150 ~ 1330 nm
	λ_∞ (Cable)	≤ 1260 nm
Proof Test Stress		100 Kpsi
Chromatic Dispersion	λ ; 1285~1340 nm	≤ 3.5 ps/nm.km
	$\lambda = 1550$ nm	≤ 18 ps/nm.km
	$\lambda = 1625$ nm	≤ 22 ps/nm.km
Polarization mode dispersion (PMD)		≤ 0.20 ps/ $\sqrt{\text{km}}$
Fiber Curl		≥ 4 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			
Fiber Type		50/125 μ m (OM2)	50/125 μ m (OM3)	50/125 μ m (OM4)	50/125 μ m (OM5)
Max./ Typ. Attenuation (dB/km)	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	$\leq 2.3 / \leq 2.0$
Bandwidth (MHz/km)	850 nm	≥ 500	≥ 1500	≥ 3500	≥ 3500
	1300 nm	≥ 500	≥ 500	≥ 500	≥ 500
	953 nm	N.A	N.A	N.A	≥ 1850
850nm Laser Bandwidth (MHz/km)		N.A	≥ 2000	≥ 4700	≥ 4700
953nm Laser Bandwidth (MHz/km)		N.A	N.A	N.A	≥ 2470
Core Diameter (μ m)		50.0 ± 2.5	50.0 ± 2.5	50.0 ± 2.5	50.0 ± 2.5
Cladding Diameter (μ m)		125 ± 1	125 ± 1	125 ± 1	125 ± 1
Core Non-circularity (%)		≤ 5	≤ 5	≤ 5	≤ 5
Cladding Non-circularity (%)		≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core/Cladding Concentricity error (μ m)		≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Coating Diameter, Primary (μ m)		242 ± 5	242 ± 5	242 ± 5	242 ± 5
Coating Diameter, Secondary (μ m)		250 ± 5	250 ± 5	250 ± 5	250 ± 5
Coating Non-Circularity (%)		≤ 5	≤ 5	≤ 5	≤ 5
Coating/Cladding Concentricity error (μ m)		≤ 12	≤ 12	≤ 12	≤ 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,		≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB
Zero-Dispersion Wavelength		1295~1315nm	1295~1315nm	1295~1315nm	1295~1315nm
Zero-Dispersion Slope (ps/(nm ² .km))		≤ 0.101	≤ 0.101	≤ 0.101	≤ 0.101
Numerical Aperture		0.200 ± 0.015	0.200 ± 0.015	0.200 ± 0.015	0.200 ± 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 94V-0
LC Housing	PBT, Thermoplastic, UL 94V-0
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 (OS2)	MULTIMODE (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

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

Descriptions	Part Number				
	9/125 μm (OS2)	50/125 μm (OM2)	50/125 μm (OM3)	50/125 μm (OM4)	50/125 μm (OM5)
LC Pigtail, Simplex, 3.0 mm.	UFP920S3X-XX	UFP520S3X-XX	UFP420S3X-XX	UFP320S3X-XX	UFP220S3X-XX
LC Pigtail, Simplex, 2.0 mm.	UFP920S2X-XX	UFP520S2X-XX	UFP420S2X-XX	UFP320S2X-XX	UFP220S2X-XX
LC Pigtail, Simplex, 0.9 mm.	UFP920S0X-XX	UFP520S0X-XX	UFP420S0X-XX	UFP320S0X-XX	UFP220S0X-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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