



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

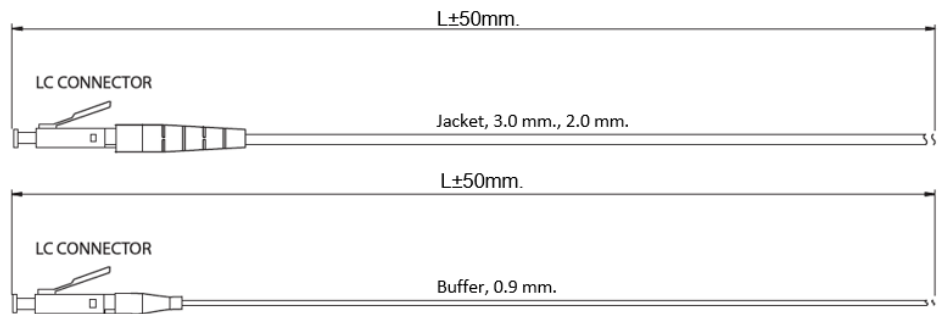


Scope of Application

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 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 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-D | ISO/IEC 11801:2017 |
| • ANSI/TIA-568-C.3 | ISO/IEC 11801:2011 (Ed.2.2) |
| • ANSI/ICEA 596 | EC 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_0 (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		$\geq 4\text{M}$
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-D, IEC 60793-2B1.3, ITU-T G.652D)



OPTICAL FIBER

Items		Specifications			
		50/125 μ m (OM2)	50/125 μ m (OM3)	50/125 μ m (OM4)	50/125 μ m (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	≥ 500	≥ 1500	≥ 3500	≥ 3500
	1300 nm	≥ 500	≥ 500	≥ 500	≥ 500
	953 nm	N.A	N.A	N.A	≥ 1850
Bandwidth (MHz/km)	850 nm	N.A	≥ 2000	≥ 4700	≥ 4700
	1300 nm	N.A	N.A	N.A	≥ 2470
	953 nm	N.A	N.A	N.A	≥ 2470
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-D, 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)	
	Typ.	Max.	Typ.	Max.
Insertion Loss	≤ 0.15 dB	≤ 0.30 dB	≤ 0.15 dB	≤ 0.30 dB
	≤ 0.30 dB	≤ 0.30 dB	≤ 0.30 dB	≤ 0.30 dB
Return Loss	≥ 50 dB	≥ 60 dB	≥ 26 dB	-
	≥ 60 dB	≥ 60 dB	-	-
Durability/Mating Cycle	≥ 500 Cycle		≥ 500 Cycle	

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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