

## Specification Of Fiber Optic Pigtail-LC

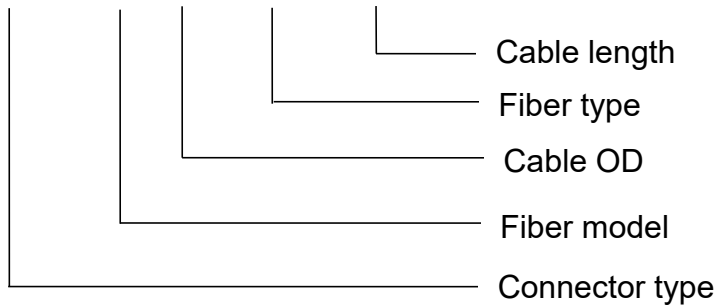


### Features

- Widely used to connect the trunk cable wiring devices
- Suit for Single Mode or Multi Mode Simplex cable
- High quality connectors
- Receive and transmit legs clearly indicated
- Low insertion loss, High return loss.
- Good repeatability、Mutual thrust performance
- Good temperature stability
- Conform to the IEC 874-7、TIA/EIA568 - B - 3 CECC86115-80 industry standards

### Available variant (According to the customer requirement.)

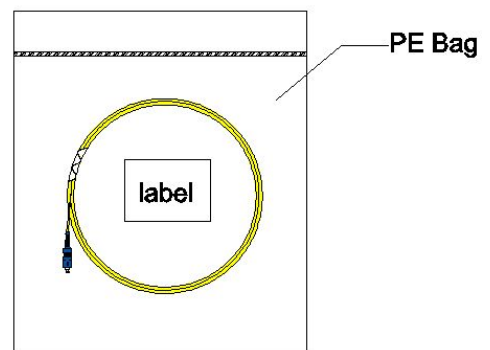
LC/UPC-SM-0.9-G652D-\*M



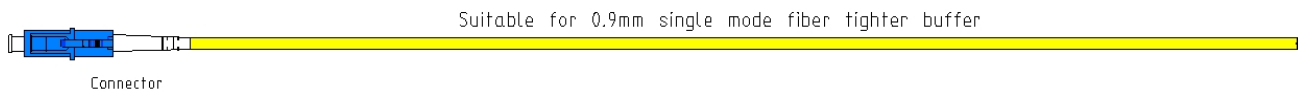
### Cable Profile



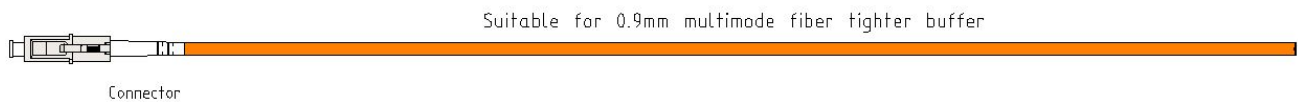
### Packing



**Profile**



LC SM Pigtail



LC MM Pigtail

**CONNECTOR PARAMETERS**

Parameter	Unit	FC, SC, LC/ fiber patch cord				ST		
		SM			MM	SM		MM
		PC	UPC	APC	PC	PC	UPC	PC
Insertion Loss(typical)	dB	≤0.3	≤0.3	≤0.25	≤0.3	≤0.3	≤0.3	≤0.3
Return Loss	dB	≥ 45	≥ 50	≥ 60	≥ 30	≥ 45	≥ 50	≥ 30
Operating Wavelength	Ex-changeability	Vibration		Operating /Storage Temperature		Cable Diameter		
nm	dB	dB		℃		mm		
1310, 1510, 850	≤ 0.2	≤ 0.2		-40~75/-45~85		φ3.0, φ2.0, φ0.9		

**TIGHT BUFFER COLOR CODE**

FIBER	Tight Buffer Color Code	
Single Mode	White	(or)Yellow
Multi-Mode	White	(or)Orange
10Gigabit Multi-Mode	White	(or)Aqua

**CABLE STRUCTURE SPECIFICATION**

Fiber count	2F
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Tight Fiber	OD(mm):	0.85±0.05
	Material:	PVC

### SINGLE MODE FIBER PARAMETERS

Items	UNITS	SPECIFICATION	
		G652D	G657A
Fiber type		G652D	G657A
Attenuation	dB/km	$\leq 0.4$ at 1310nm $\leq 0.3$ at 1550nm	
Chromatic Dispersion	ps/nm.km	$\leq 3.5$ at 1310nm $\leq 18$ at 1550nm $\leq 22$ at 1625nm	
Zero Dispersion Slope	ps/nm <sup>2</sup> .km	$\leq 0.092$	
Zero Dispersion Wavelength	nm	1300 ~ 1324	
Cut-off Wavelength ( $\lambda_{cc}$ )	nm	$\leq 1260$	
Attenuation vs. Bending (60mm x100turns)	dB	(30mm radius, 100ring) $\leq 0.1$ @ 1625nm	(10mm radius, 1ring) $\leq 1.5$ @ 1625nm
Mode Field Diameter	$\mu m$	$9.2 \pm 0.4$ at 1310nm	$9.2 \pm 0.4$ at 1310nm
Core-Clad Concentricity	$\mu m$	$\leq 0.5$	$\leq 0.5$
Cladding Diameter	$\mu m$	125±1	125±1
Cladding Non-circularity	%	$\leq 0.8$	$\leq 0.8$
Coating Diameter	$\mu m$	245±5	245±5
Proof Test	Gpa	$\geq 0.69$	$\geq 0.69$

### MULTI MODE FIBER

ITEMS	UNITS	SPECIFICATION				
		62.5/125	50/125	OM3-150	OM3-300	OM4-550
Fiber Core Diameter	$\mu m$	62.5±2.5	50.0±2.5	50.0±2.5		
Fiber Core Non-circularity	%	$\leq 6.0$	$\leq 6.0$	$\leq 6.0$		
Cladding Diameter	$\mu m$	125.0±1.0	125.0±1.0	125.0±1.0		
Cladding Non-circularity	%	$\leq 2.0$	$\leq 2.0$	$\leq 2.0$		

Coating Diameter		μm	245±10	245±10	245±10		
Coat-Clad Concentricity		μm	≤12.0	≤12.0	≤12.0		
Coating Non-circularity		%	≤8.0	≤8.0	≤8.0		
Core-Clad Concentricity		μm	≤1.5	≤1.5	≤1.5		
Attenuation	850nm	dB/km	3.0	3.0	3.0		
	1300nm	dB/km	1.5	1.5	1.5		
OFL	850nm	MHz . km	≥160	≥200	≥700	≥1500	≥3500
	1300nm	MHz . km	≥300	≥400	≥500	≥500	≥500
The biggest theory numerical aperture			0.275±0.015	0.200±0.015	0.200±0.015		

**NOTE:**

- 1.Paragraphs finished product size should meet the requirements;
- 2.All materials meet ROHS requirements
- 3.Here is the \*M for key size(The distance between the connector dust cap on both ends.)