

## LC Optical Fiber Connectors

### Description

The FiberFab LC Connector is a cost effective, small form factor fiber optic connector that helps to reduce space on panels or outlets by up to 50%. It uses the standard RJ-style telephone connector which gives an audible click upon engaging.

The LC connector uses a 1.25mm ferrule and is available in singlemode for both UPC and APC and in multimode PC. The connectors come with standard boots suitable for 900µm, 2mm and 3mm cable diameters. The connector is available in simplex and duplex (with clips) options available in blue, green and beige.

### Features

- ▶ Complies with IEC 61754-20 and TIA 604-10-A for intermateability
- ▶ Compact design based on RJ45 style interface
- ▶ Low insertion loss and back reflection capability
- ▶ Zirconia ceramic ferrule with high end PC finish
- ▶ RoHS, REACH SvHC compliant

### Applications

- ▶ Telecommunications networks
- ▶ CATV, LAN, MAN and WAN application
- ▶ Data processing networks
- ▶ Cable television
- ▶ Fiber-To-The-Home (FTTH)
- ▶ Premises distribution

### Technical Specification



MECHANICAL PROPERTIES	CRITERIA	EFFECT	CONFORMANCE
Mating Durability	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable Retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable Torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating Temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

### LC Connector PC and APC- Singlemode

OPTICAL PERFORMANCE*	GRADE A	GRADE B	GRADE C	CONFORMANCE
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6



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V.3.4

### LC Connector- Multimode

OPTICAL PERFORMANCE*	GRADE D	GRADE S	CONFORMANCE
IL MAX/Master (Acceptance)	0.15	0.3	IEC 61300-3-4
IL MAX/Random	0.25	0.4	IEC 61300-3-34
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-34

### Ordering Information

		GRADE A	GRADE B	GRADE C	
<b>Singlemode</b>					
UPC	Simplex	900µm	LCSM9-H	LCSM9-P	LCSM9
		2mm	LCSM2-H	LCSM2-P	LCSM2
		3mm	LCSM3SMPX-H	LCSM3SMPX-P	LCSM3SMPX
	Duplex	2mm	LCSM2DPX-H	LCSM2DPX-P	LCSM2DPX
		3mm	LCSM3DPX-H	LCSM3DPX-P	LCSM3DPX
APC	Simplex	900µm	LCAPC.9MM-H	LCAPC.9MM-P	LCAPC.9MM
		2mm	LCAPC2MM-H	LCAPC2MM-P	LCAPC2MM
	Duplex	2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
		GRADE D	GRADE S		
<b>Multimode</b>					
UPC	Simplex	900µm	-	LCMM9-P	LCMM9
		2mm	-	LCMM2-P	LCMM2
		3mm	-	LCMM3BLK-P	LCMM3BLK
	Duplex	(Black)	-	LCMM3RED-P	LCMM3RED
		3mm (Red)	-	LCMM2DPX-P	LCMM2DPX
		2mm	-	LCMM3DPX-P	LCMM3DPX
		3mm	-		

\*Achievable with FiberFab process and specified optical fiber

