

LC Optical Fibre Connectors

Description

The FibreFab LC connector is a small form factor fibre optic connector. The LC connector helps to reduce space on panels or outlets by 50%. It is cost effective as it simplifies movement, addition and modification. It uses the standard RJ-style telephone connector which gives an audible click upon engaging.

FibreFab manufactures a range of LC connectors suitable for various applications. The LC connector uses a 1.25mm ferrule which is half the diameter of the standard ferrule. The FibreFab LC connectors are available in singlemode for both UPC and APC and in multimode UPC. The connectors come with standard boots suitable for 900um and 2mm cable diameters. The connectors are also available in simplex and duplex (with clips) options.

The LC connector is available in blue, green and beige.

Features

- ▶ Complies with IEC 61754-20 and TIA 604-10-A
- ▶ Compact design based on RJ45 style interface
- ▶ Low insertion loss and back reflection
- ▶ Zirconia ceramic ferrule with high end UPC finish
- ▶ RoHS, REACH SvHC compliant
- ▶ Available in standard colours and standard packaging

Applications

- ▶ Telecommunications networks
- ▶ CATV, LAN, MAN and WAN application
- ▶ Data processing networks
- ▶ Cable television
- ▶ Fibre-to-the-home
- ▶ Premises distribution



Technical Specification

MECHANICAL PROPERTIES	CRITERIA	EFFECT	CONFORMANCE
Mechanical endurance	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	HIGH PERFORMANCE	PREMIUM	STANDARD	CONFORMANCE
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-4
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 61300-3-4
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6



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V.3.2

LC connector- Multimode

OPTICAL PERFORMANCE	PREMIUM	STANDARD	CONFORMANCE
Insertion loss (Typ)	0.15	0.3	IEC 61300-3-4
Insertion loss (97%)	0.25	0.4	IEC 61300-3-4
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-4

Ordering Information

		HIGH PERFORMANCE	PREMIUM	STANDARD	
Singlemode					
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
		3mm	LCSM3DPX-H	LCSM3DPX-P	LCSM3DPX
APC	Simplex	900µm	LCAPC.9MM-H	LCAPC.9MM-P	LCAPC.9MM
		2mm	LCAPC2MM-H	LCAPC2MM-P	LCAPC2MM
		2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
	Duplex	2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
		2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
		2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
Multimode					
UPC	Simplex	900µm	LCMM9-H	LCMM9-P	LCMM9
		2mm	LCMM2-H	LCMM2-P	LCMM2
		3mm	LCMM3BLK-H	LCMM3BLK-P	LCMM3BLK
		3mm (Black)	LCMM3BLK-H	LCMM3BLK-P	LCMM3BLK
		3mm (Red)	LCMM3RED-H	LCMM3RED-P	LCMM3RED
		3mm (Red)	LCMM3RED-H	LCMM3RED-P	LCMM3RED
	Duplex	2mm	LCMM2DPX-H	LCMM2DPX-P	LCMM2DPX
		3mm	LCMM3DPX-H	LCMM3DPX-P	LCMM3DPX
		3mm	LCMM3DPX-H	LCMM3DPX-P	LCMM3DPX



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