

LC Optical Fibre Connectors

The Optronics LC Connector is a cost effective, small form factor fibre 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.

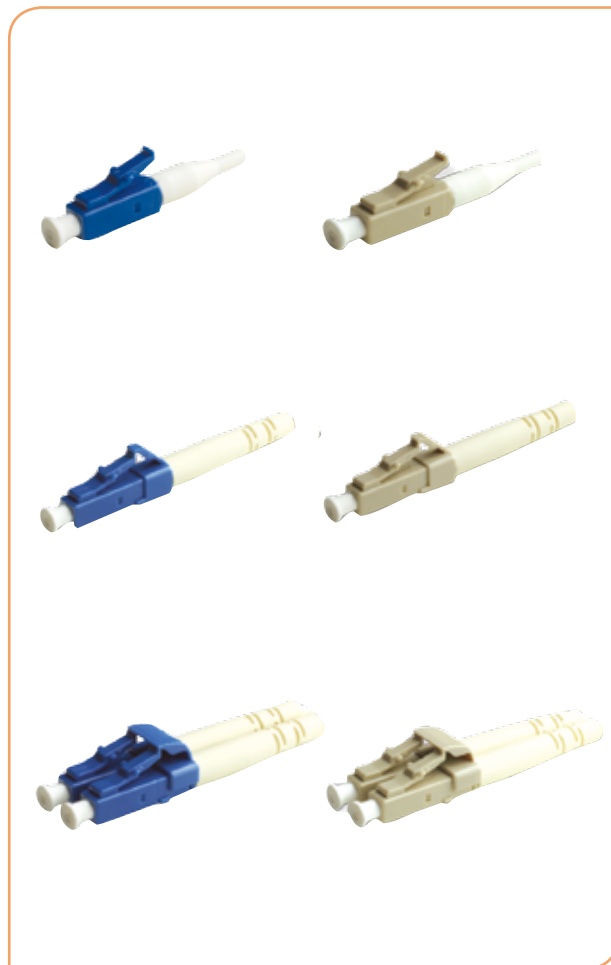
The LC connector uses a 1.25mm ferrule and is available in singlemode for both UPC and APC and in multimode PC. The connectors come with standard boots suitable for 900µm, 2mm and 3mm cable diameters. The connector is available in simplex and duplex (with clips) options available in blue, green and beige.

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
- > Fibre-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°C, 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

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

* Achievable with Optronics process and specified optical fiber

Ordering Information

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