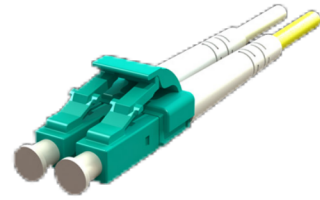


## LC Connectors

The 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 PC 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.

The 2mm connector is supplied with heatshrink and crimp cable retention method.  
(white and yellow for duplex and yellow for simplex)



### 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 available in several performance grades
- RoHS, REACH SvHC compliant
- Individual parts packed in bulk package

### Applications

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

### 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 70N	<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	GRADE D
IL MAX/Master (Acceptance)	0.10dB	0.15dB	0.25dB	IEC 61300-3-4
IL MAX/Random (97%)	0.20dB	0.30dB	0.40dB	IEC 61300-3-34
Ave/Master	0.08dB	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.08dB	0.12dB	0.18dB	IEC 61300-3-34
Return Loss	55/70dB	55/65dB	55/65dB	IEC 61300-3-6

### LC Connector - Multimode

OPTICAL PERFORMANCE*	PREMIUM	STANDARD	CONFORMANCE
IL MAX/Master (Acceptance)	0.15	0.30	IEC 61300-3-4
IL MAX/Random (97%)	0.25	0.40	IEC 61300-3-34
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.10	0.20	IEC 61300-3-34

\* Achievable with FibreFab process and specified optical fibre

### Ordering Information

Singlemode		GRADE A	GRADE B	GRADE C
	900µm	LCSM9-H	LCSM9-P	LCSM9
	Simplex 2mm	LCSM2-H	LCSM2-P	LCSM2
PC	3mm	LCSM3SMPX-H	LCSM3SMPX-P	LCSM3SMPX
	Duplex 2mm	LCSM2DPX-H	LCSM2DPX-P	LCSM2DPX
	3mm	LCSM3DPX-H	LCSM3DPX-P	LCSM3DPX
	Simplex 900µm	LCAPC.9MM-H	LCAPC.9MM-P	LCAPC.9MM
APC	2mm	LCAPC2MM-H	LCAPC2MM-P	LCAPC2MM
	Duplex 2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
Multimode		PREMIUM	STANDARD	

PC		900µm	LCMM9-P	LCMM9
		2mm	LCMM2-P	LCMM2
	Simplex	3mm (Black boot)	LCMM3BLK-P	LCMM3BLK
		3mm (Red boot)	LCMM3RED-P	LCMM3RED
		2mm	LCMM2DPX-P	LCMM2DPX
	Duplex	3mm (Red & Black boots)	LCMM3DPX-P	LCMM3DPX