



1. USE

LC type connectors to be glued for 50/125 µm and 62.5 / 125 µm multimode optical fibers suitable from 900 µm cables. Implementation of connectors: hot or cold bonding.

2. ITEM DESCRIPTION

The LC connector features a 1.25mm Zirconia ferrule in a small form factor (SFF) fibre optic connector housing with a snag free latch which gives an audible click upon engaging for reliable and high density connections. A range of pigtail, simplex and duplex LC connectors are manufactured including Low Loss and High Performance Grades which are suitable for various applications. The LC connectors are available for single mode UPC with white or blue boots, for APC with green boots and for multimode PC with white, red or black boots suitable for 900µm or 3mm cable diameters or with heatshrink and crimp cable retention method for 2mm cable diameters (white and yellow for duplex and yellow for simplex). The LC connector is available in simplex and duplex (with clips) in standard colours including blue (single mode), green (single mode APC) and beige (multimode).

Features/Benefits	Applications
<ul style="list-style-type: none"> Complies with IEC 61754-20 and TIA 604-10-B, FOCIS-10 for intermateability Low insertion loss and back reflection capability Compact SFF design with snag free latch for easy insertion and consistent connection Connector housing and duplex clip available in different colours for easy identification Zirconia ceramic ferrule available in several performance grades RoHS materials, REACH SvHC compliant Individual parts packed in bulk package 	<ul style="list-style-type: none"> Data centre applications Telecommunication networks LAN, MAN and WAN application Data processing networks CATV - Cable television Fibre-To-The-Home (FTTH) Premises distribution

3. TECHNICAL SPECIFICATION

Mechanical properties	Criteria	EFFECT	Standard
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°C to +70°C 12 cycles	<0,2 dB change	IEC 61300-2-22
Cold	-25°C for 96 hours	<0,2 dB change	IEC 61300-2-17
Dry heat	+70°C for 96 hours	<0,2 dB change	IEC 61300-2-18

4. OPTICAL PERFORMANCE

	OPTICAL PERFORMANCE*	HIGH PERFORMANCE	LOW LOSS PREMIUM	STANDARD	CONFORMANCE
LC Connector PC and APC Single mode	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	IL MAX/Master (Acceptance)	-	0.15dB	0.30dB
IL MAX/Random (97%)		-	0.25dB	0.40dB	IEC 61300-3-34
Ave/Master		-	0.08dB	0.15dB	IEC 61300-3-4
Ave/Random		-	0.10dB	0.20dB	IEC 61300-3-34

* Achievable with FibreFab process and specified optical fibre

5. ORDERING INFORMATION

				HIGH PERFORMANCE	LOW LOSS PREMIUM	STANDARD	
Single mode	PC	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
	2mm	LCAPC2MM-H			LCAPC2MM-P	LCAPC2MM	
	Duplex	2mm		LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX	
		Multimode		PC	Simplex	900µm	-
	2mm		-			LCMM2-P	LCMM2
3mm (Black boot)	-		LCMM3BLK-P			LCMM3BLK	
3mm (Red boot)	-		LCMM3RED-P			LCMM3RED	
Duplex	2mm		-		LCMM2DPX-P	LCMM2DPX	
	3mm (Red & Black boot)		-		LCMM3DPX-P	LCMM3DPX	