



LC Connectors

High-quality LC connectors, manufactured including Low Loss and High Performance Grades which are suitable for modern high demand and enhanced performance and applications. They feature a 1.25mm Zirconia ferrule in a small form factor fibre optic connector housing with a snag free latch which gives an audible click upon engaging for reliable and high density connections.

OptronicsPlus LC connectors are available for singlemode UPC with white or blue boots, for APC with green boots and for multimode PC with white, red or black boots. They are suitable for 900µm or 3mm cable diameters or with heat shrink and crimp cable retention method for 2mm cable diameters (white and yellow for duplex and yellow for simplex). They are available in simplex and duplex (with clips) in standard colors including blue (single mode), green (single mode APC) and beige (multimode).

Features

- Low insertion loss and back reflection
- IEC 61754-20 and TIA 604-10-B, FOCIS-10 compliant
- Small form factor design with snag free latch for easy insertion and consistent connection
- Zirconia ceramic ferrule available in several performance grades
- Connector housing and duplex clip available in different colors
- RoHS, REACH SvHC compliant

Applications

- Datacenters
- FTTx
- Telecommunication networks
- LAN, MAN and WAN applications
- Cable television
- Premises distribution

Specifications

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°C to +70°C, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 to 96 hours	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 to 96 hours	<0.2 dB change	IEC 61300-2-18

LC Connector PC and APC- Singlemode

OPTICAL PERFORMANCE	HIGH PERFORMANCE	LOW LOSS	PREMIUM STANDARD	CONFORMANCE
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*	LOW LOSS	PREMIUM STANDARD	CONFORMANCE
IL MAX/Master (Acceptance)	0.15dB	0.30dB	IEC 61300-3-4
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

Ordering Information

	Connector		Mode		Boot Diameter		Configuration		Performance		Extra Options	
	Code	Type	Code	Type	Code	Type	Code	Type	Code	Type	Code	Type
OCO	00	LC	9	Singlemode	2	2.0mm	1	Simplex	Leave Empty	Standard	BB	Black Boot (applies to MM simplex 3mm)
	01	LCA	2	Multimode	3	3.0mm	2	Duplex	L	Low loss premium	RB	Red Boot (applies to MM simplex 3mm)
					9	900µm (only for Simplex)			p	High Performance (Singlemode)		

Example order code

OCO - 00 - 9 - 9 - 1

Standard LC Connector Singlemode Simplex 900µm Boot

OCO - 01 - 9 - 2 - 2 - L

Low Loss Premium LC Connector Singlemode Duplex APC 2mm Boot

OCO - 01 - 2 - 3 - 2

Standard LC Connector Multimode Duplex 3mm Boot

OCO - 01 - 9 - 2 - 2 - P

High Performance LC Connector Singlemode Duplex 2mm Boot