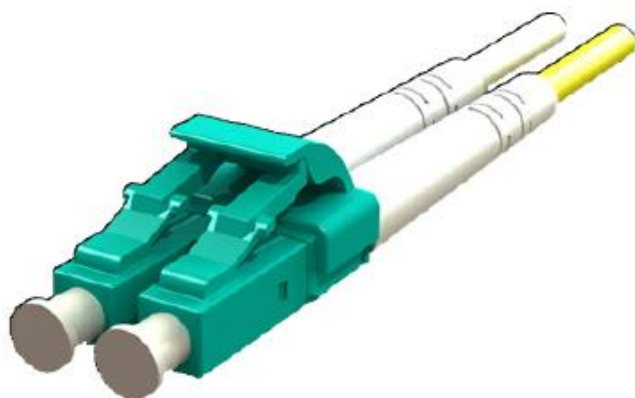


Datasheet

LC Connectors

RS Stock number [156-229](#)



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 singlemode 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 (singlemode) , green (singlemode APC) and beige (multimode).

Specifications:

Mechanical Properties	Criteria	Effect	Conformance
Mating durability:	500 matings	<0.2dB change	IEC 61300-2-2
Vibration:	10-55Hz, 0.75 amplitude	<0.2dB change	IEC 61300-2-1
Drop:	Drop height 1m, 5 drops	<0.2dB change	IEC 61300-2-12
Cable retention:	Magnitude 70N	<0.2dB change	IEC 61300-2-4
Cable torsion:	1.5kg-2.5kg for 2mm-3mm cable diameter	<0.2dB change	IEC 61300-2-5
Operating temp:	-25 to +70°C, 12 cycles	<0.2dB change	IEC 61300-2-22
Cold:	-25 for 96hrs	<0.2dB change	IEC 61300-2-17
Dry heat:	+70 for 96hrs	<0.2dB change	IEC 61300-2-18

Specifications:

LC Connector PC and AC – Singlemode

Optical Performance	High Performance	Low loss performance	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)	0.15	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

Features:

- 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

Applications:

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