

LC Optical Connector



The LC connector was the first small form factor connector on the market. The use of a high performance 1.25 mm ferrule gives the connector extremely high performance characteristics.

The Optronics LC optical fibre connector comprises of a polymer body and a ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for 900µm and 2 mm cables. The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule and a precision polymer housing provides consistent long-term mechanical and optical performance.

FibreFab has 15 years experience in manufacturing fibre optic connectors and cable assemblies. From Biconic and SMA through ST, SC to today's Small Form Factor connectors like the LC, MU or MT-RJ. If you have a fibre network, no matter what the technology FibreFab can offer you a solution to your problem.

FibreFab has full ISO9001 on all of its manufacturing facilities, so you can be confident you are using the very best in cable, connectors and manufacturing.

LC Optical Connector

Specifications

Description

The LC connector was the first small form factor connector on the market. It can be seen extensively in the local area network closet as a standard fit to many market leading hubs and switches. The LC sets the standard for small form factor connectors.

The Optronics LC connector are manufactured using the best quality components. The connectors exceeds all areas of the standards covering optical fibre connectors.

Versions Available:

2mm patch
900 µm

Termination Procedures

Prep cable end, Epoxy-Crimp-Polish

Product Packaging

Standard packaging: 100pcs Bulk packed
Special packaging available by request

Shell:

Connector versions available for:
2mm Cable
900 µm Buffered Fibre
Simplex & Duplex

Colour:

Blue - single mode
Beige - multimode

Intermateability

Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-20.

Optical Performance

Singlemode

Insertion loss: Max. 0.3 dB Typical 0.2 dB

Return Loss: UPC > 50dB Typical 55 dB
APC > 60dB Typical 65 dB

Multimode

Insertion loss: Max. 0.3 dB Typical 0.12 dB
(IEC 874-1 method)

Mechanical

Capillary diameter tolerance: 126 +1/-0 µm
Ferrule Diameter: 1.25mm ± .001
Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule. R 10 to 25mm

Tensile Strength Cable retention:

>50N (2 mm boot versions only)

Vibration (Mated Pair):

(IEC 61300-2-1)
10-55 Hz, 1.5mm P to P
=0.3dB Change

Damp Heat:

(IEC 61300-2-19)
60°C at 95% RH, 96 hours
=0.2dB Change

Mating Durability:

(IEC 61300-2-2)
1000 mating cycles
Clean every 25
< 0.2 dB Change

Temperature Cycling

(IEC 61300-2-48)
-40 to +85°C, 42 cycles
=0.2dB Change

High Temperature:

(IEC 61300-2-18)
75°C for 96 hours
=0.2dB Change

Operating Temperature

-40°C to +85°C

