

FIBRE OPTIC PASSIVE COMPONENTS

CONNECTORS

LC OPTICAL FIBER CONNECTOR

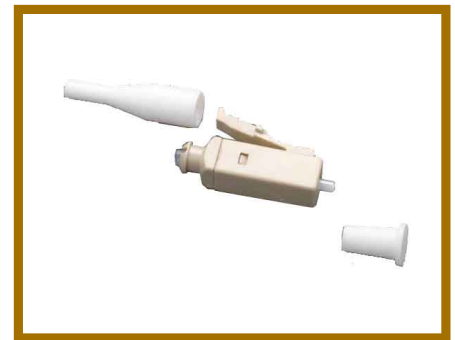
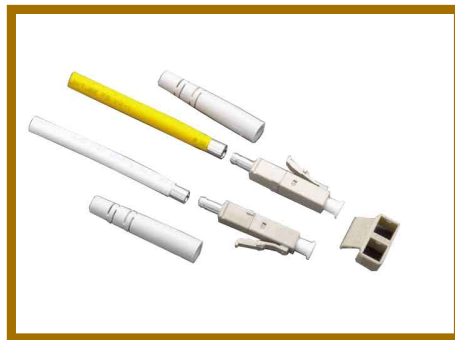
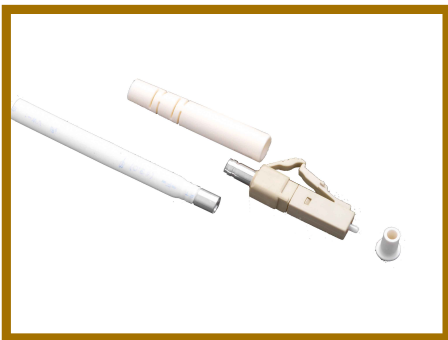
The LC connector was the first small form factor connector on the market. The use of a high performance 1.25 mm ferrule gives the connector extremely high performance characteristics.

The SofeTEK LC optical fiber 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.

SofeTEK has 15 years experience in manufacturing fiber 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 fiber network, no matter what the technology SofeTEK can offer you a solution to your problem.

SofeTEK 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.



Optical Performance

Vibration (Mated Pair)	Mating Durability	High Temperature	Damp Heat
(IEC 61300-2-1) 10-55 Hz, 1.5mm P to P =0.3dB Change	(IEC 61300-2-2) 1000 mating cycles Clean every 25 < 0.2 dB Change	(IEC 61300-2-18) 75°C for 96 hours =0.2dB Change	(IEC 61300-2-19) 60°C at 95% RH, 96 hours =0.2dB Change Temperature Cycling (IEC 61300-2-48) -40 to +75°C, 40 cycles =0.2dB Change Operating Temperature -40°C to +85°C

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

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Ordering information

Description	Part No
LC SM Simplex Connector 0.9mm Blue Boots	LCSMSX09BU
LC SM Simplex Connector 2.0mm Blue Boots with Yellow HeatShrink Tube	LCSMSX20BU
LC SM Simplex Connector 3.0mm Blue Boots no HeatShrink but with Crip	LCSMSX30BU
LC MM Simplex Connector 0.9mm White Boots	LCMMSX09WT
LC MM Simplex Connector 2.0mm White Boots	LCMMSX20W
LC MM Simplex Connector 3.0mm White Boots	LCMMSX30WT
LC/APC SM Simplex Connector 0.9mm Green Boots prepare 8deg Angle	LASMSX09GN
LC/APC SM Simplex Connector 2.0mm Green Boots with Yellow HeatShrink Tube prepare 8deg Angle	LASMSX20GN
LC/APC SM Simplex Connector 0.9mm Green Boots no HeatShrink but with Crip prepare 8deg Angle	FASM30GN
LC Duplex Clip Blue	LCCLIPBU
LC Duplex Clip Beige	LCCLIPBG
LC Duplex Clip Green	LCCLIPGN
LC SM Duplex Connector 2.0mm Blue Boots with Blue Clip Yellow and White HeatShrink	LCSMDX20BU
LC SM Duplex Connector 3.0mm Blue Boots with Blue Clip	LCSMDX30BU
LC MM Duplex Connector 2.0mm Red and Black Boots with Beige Clip	LCMMDX20BU
LC MM Duplex Connector 3.0mm Red and Black Boots with Beige Clip	LCMMDX30BU
LC/APC SM Duplex Connector 2.0mm Green Boots with Green Clip Yellow and White HeatShrink	LASMDX20GN
LC/APC SM Duplex Connector 3.0mm Green Boots with Green Clip	LASMDX30GN

Versions Available

2mm Patch

900 mm

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 Fiber

Simplex & Duplex

Colours

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)