SofeTEK Optical Fiber Connector

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.

Ordering information

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC SM Simplex Connector 0.9mm Blue Boots</td>
<td>LCSMSX09BU</td>
</tr>
<tr>
<td>LC SM Simplex Connector 2.0mm Blue Boots with Yellow HeatShrink Tube</td>
<td>LCSMSX20BU</td>
</tr>
<tr>
<td>LC SM Simplex Connector 3.0mm Blue Boots no HeatShrink but with Crip</td>
<td>LCSMSX30BU</td>
</tr>
<tr>
<td>LC MM Simplex Connector 0.9mm White Boots</td>
<td>LCMMSX09WT</td>
</tr>
<tr>
<td>LC MM Simplex Connector 2.0mm White Boots</td>
<td>LCMMSX20WT</td>
</tr>
<tr>
<td>LC MM Simplex Connector 3.0mm White Boots</td>
<td>LCMMSX30WT</td>
</tr>
<tr>
<td>LC/APC SM Simplex Connector 0.9mm Green Boots prepare 8deg Angle</td>
<td>LASMSX09GN</td>
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<tr>
<td>LC/APC SM Simplex Connector 2.0mm Green Boots with Yellow HeatShrink Tube prepare 8deg Angle</td>
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</tr>
<tr>
<td>LC Duplex Clip Blue</td>
<td>LCCLIPBU</td>
</tr>
<tr>
<td>LC Duplex Clip Beige</td>
<td>LCCLIPBG</td>
</tr>
<tr>
<td>LC Duplex Clip Green</td>
<td>LCCLIPGN</td>
</tr>
<tr>
<td>LC SM Duplex Connector 2.0mm Blue Boots with Blue Clip Yellow and White HeatShrink</td>
<td>LCSMDX20BU</td>
</tr>
<tr>
<td>LC SM Duplex Connector 3.0mm Blue Boots</td>
<td>LCSMDX30BU</td>
</tr>
<tr>
<td>LC MM Duplex Connector 2.0mm Red and Black Boots with Beige Clip</td>
<td>LCMDDX20BU</td>
</tr>
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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.

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 Fiber
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

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

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

Damp Heat:
(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