LC Fiber Optic Adapters

**Specifications**

LC small form factor (SFF) fiber optic adapters with integrated panel retention clips are TIA/EIA-604 FOCIS-10 compatible. Each LC simplex adapter shall connect one LC connector pair in one module space. Each LC duplex adapter shall connect two LC connector pairs in one module space. LC adapters and adapter modules shall include phosphor bronze split sleeves for multimode applications or zirconia ceramic split sleeves for singlemode applications.

**Technical Information**

**Standards requirements:** TIA/EIA-604 FOCIS-10 compatible; exceeds TIA/EIA-568-B.3 requirements

**Split sleeve material:** Phosphor bronze or zirconia ceramic (required for singlemode applications)

**Insertion loss:** .1dB average* (multimode and singlemode); supports the performance of FOCIS-10 compliant connectors/patch cords

**Return loss:** Supports singlemode (>40dB for SPC and >55dB for UPC) and multimode (>20dB) connector polish performance

**Key Features and Benefits**

- Integrated panel retention clips: No metal clips to become bent, damaged or lost; simplex adapter clips automatically adjust for FOCIS-10 compliant panel thickness variations for improved mounting
- Superior weld strength: Provides a more durable product under stress for improved reliability and increased life
- LC duplex adapters fit SC simplex adapter openings: Doubles the density in the same rack space; substitute simplex SCs with duplex LCs to increase connectivity 100%
- Short flange design: Improved modularity and higher density usage
- Choice of phosphor bronze or zirconia ceramic split sleeves: Provides an adapter split sleeve material option to fit specific network requirements
- Adapters available in Mini-Com® Modules: System flexibility; modules are interchangeable within Panduit® Mini-Com® Outlets, Boxes and Patch Panels
- Adapters available in patch panels, fiber adapter panels (FAPs) and Opticom® QuickNet™ Pre-Terminated MTP® Cassettes: Provides a complete LC system solution
- Modules available in multiple colors: Allows color-coding for network segregation

**Applications**

Panduit LC SFF Fiber Optic Adapters can be used with Mini-Com® Modules, Patch Panels, Faceplates and Surface Mount Boxes for a complete LC system solution. LC adapters provide a rugged solution for LANs, public networks, storage area networks and fiber-to-the-desk applications. The high-density design and 1.25mm ferrules double the port density (compared to SC connectors) to reduce space requirements on racks, enclosures, panels and faceplates. LC adapters can also be mounted in high-density applications within Opticom® QuickNet™ Pre-Terminated MTP® Cassettes and Fiber Enclosures, and Opticom® Fiber Adapter Panels (FAPs) and Enclosures. HD-CRT Connector Removal Tool can be used to simplify removal of connectors in high-density applications.

* *MTP is a registered trademark of US Conec Ltd.*

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design information

<table>
<thead>
<tr>
<th>LC Adapter Type</th>
<th>Description</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sr./Sr. (Senior/Senior)</td>
<td>Has a FOCIS-10 senior adapter interface (without keyway) at each end. Both ends accept FOCIS-10 compatible senior LC connectors (non-keyed; spring loaded ferrules).</td>
<td>Typically used for patch panel and outlet applications, including behind the wall applications.</td>
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<tr>
<td>Sr./Jr. (Senior/Junior)</td>
<td>Has a FOCIS-10 senior adapter interface (without keyway) at one end and a FOCIS-10 compatible junior adapter interface (with keyway) at the other end. Both ends accept all FOCIS-10 compatible senior LC connectors (non-keyed; spring loaded ferrules). Junior end also accepts FOCIS-10 compatible junior LC connectors (keyed; fixed ferrule/springless).</td>
<td>Shorter profile of junior end accommodates tighter applications behind the wall, allowing easier access to FOCIS-10 compatible junior (shorter) LC connectors terminated on 900µm buffered fiber. Panduit® Opticom® Fiber Adapter Panels and QuickNet™ Pre-Terminated Cassettes include Sr./Jr. Adapters.</td>
</tr>
</tbody>
</table>

selection information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Adapter Type</th>
<th>Split Sleeve Material</th>
<th>Adapter Color</th>
<th>Module Color</th>
<th>Average Insertion Loss</th>
<th>Return Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>FADSLCEI-L</td>
<td>Multimode Duplex</td>
<td>Phosphor Bronze</td>
<td>Electric Ivory</td>
<td>N/A</td>
<td>.1dB</td>
<td>&gt;20dB</td>
</tr>
<tr>
<td>FADSLCAQ-L</td>
<td>10Gig™ Multimode Simplex</td>
<td>Zirconia Ceramic</td>
<td>Aqua</td>
<td>N/A</td>
<td>&gt;40dB</td>
<td></td>
</tr>
<tr>
<td>FADSLCZAQ-L</td>
<td>10Gig™ Multimode Duplex</td>
<td>Zirconia Ceramic</td>
<td>Aqua</td>
<td>N/A</td>
<td>&gt;40dB</td>
<td></td>
</tr>
<tr>
<td>FADSLCZBU-L</td>
<td>Singlemode Simplex</td>
<td>Zirconia Ceramic</td>
<td>Blue</td>
<td>N/A</td>
<td>&gt;40dB</td>
<td></td>
</tr>
</tbody>
</table>

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