Panduit LC Fiber Optic Connectors provide a rugged solution for high-density telecommunication rooms, LANs, public networks and fiber-to-the-desk applications. LC simplex and duplex connectors are used for equipment cross-connects or interconnects in backbone, horizontal and work area applications for high-speed data transmissions. 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.

**Applications**

- Panduit LC Fiber Optic Connectors are ideal for backbone, horizontal and work area applications.
- They are cost-effective, reliable and easy to install, making them a popular choice for a wide range of applications.

**Technical Information**

- **Standards requirements:** TIA/EIA-604 FOClS-10 compatible; exceeds TIA/EIA-568-B.3 requirements.
- **Fiber compatibility:** 62.5/125μm OM1, 50/125μm OM2, 10Gig, 50/125μm laser optimized OM3/OM4 and 9/125μm OS1.
- **Fiber cable type:** 900μm tight-buffered fiber recommended.
- **Jacketed cable size:** 1.6mm – 2.0mm jacketed cable.
- **Ferrule type:** Zirconia ceramic.
- **Insertion loss:** 0.1dB average (multimode and singlemode).
- **Return loss:** >20dB (multimode), >40dB (singlemode).

**Key Features and Benefits**

- **Rear pivot latch design:** Longer beam reduces deflection during mating and unmating to reduce latch fatigue, leading to longer cycle life.
- **Anti-snap latch:** Low profile latch resists cable snagging.
- **Wide “positive grip” thumb latch:** Multi-grooved, full body width thumb latch improves grip for better control during matings/unmatings; promotes fast, easy MACs (moves, adds, changes) in high-density applications.
- **Audible “click” upon successful mating:** Provides user with a definitive signal of successful connector mating.
- **Field installable duplex clip with integrated polarity markers:** Allows fast, easy field polarity changes without tools; quick identification of polarity.
- **One connector body design for both simplex and duplex applications:** A single connector design is used for both simplex and duplex patch cords and inside the wall applications to simplify installation.
- **Protective cap locks onto connector latch with audible “click”:** Protective cap automatically locks onto connector latch, completely covering connector end; prevents ferrule end face damage by providing protection from contamination and impact.
- **Anaerobic adhesive field installation:** Simplifies and reduces installation time by 50% compared to heat cured epoxy terminations; curing oven/time not required.
- **Rugged body construction:** Stable performance under side loads for improved reliability.
- **Independent free-floating ferrules:** Ensures physical fiber contact for consistent low return loss, unlike unitary multi-fiber ferrule connectors.
- **1.25mm ceramic ferrules:** Provide the highest durability for repeated matings.

**Specifications**

- **OM1 Multimode:** FLCMSBY
- **OM2, OM3, OM4:** FLCMBLY
- **OS2 Singlemode:** FLCSS3.0BU

**Mini-Com** Sr./Jr. LC Adapter Modules

- **1Duplex MM:** CMDJLC**
- **Duplex 10 GbE (zirc.):** CMDJACLCZBL
- **Duplex SM (zirc.):** CMDJLCZ**
  - For Sr./Jr., replace J in part number with S.

Opticon** LC Fiber Adapter Panels

- **16 duplex 10 GbE (zirc.):** FAP6WAQDLCCZ
- **6 duplex MM:** FAP6WEIDLCZ
- **6 duplex SM (zirc.):** FAP6WBDLCZ
- **12 duplex MM:** FAP12WEIDLCZ
- **12 simplex SM (zirc.):** FAP12WBDLCZ

QuickNet** MTP® Cassettes

- **6 LC to MTP® (12f):** **FC^-12-10Y**
- **12 LC to 2 MTP® (24f):** **FC^-24-10Y**

QuickNet** Optimized 10 GbE MTP® Cassettes

- **6 LC to MTP® (12f):** **FCXO-12-10Y**
- **12 LC to 2 MTP® (24f):** **FCXO-24-10Y**

Opti-Core** Fiber Optic Patch Cords

- **Duplex LC to LC:** F^E10-10MY
- **Simplex LC to LC:** F^E10-10MY
- **Duplex SC to LC:** F^E3-10MY
- **Simplex SC to LC:** F^E3-10MY
- **Simplex LC to pigtail:** F^B10-NM1Y

**LC Terminal Tooling**

- **110V termination kit:** FIELDKIT
- **230V termination kit:** FIELDKIT-G
- **Refurbishment kit:** FIELDKITTRFB

HD Connector Removal Tool

- **For LC and SC:** HDCRT

LC Lock-in Duplex Clip

- **LC lock-in duplex clip:** FLCLIUW-X

**Substitute for module color:

- **EI = Electric Ivory**
- **BU = Blue**
- **IG = International Gray**
- **WH = White**
- **Tg = Technical Gray**
- **BL = Black**
- **AW = Arctic White**
- **W = Off White**
- **EV = European White**

**Substitute for fiber type:

- **Z (OM4-10 GbE)**
- **F (OM3-10 GbE)**
- **M (OM2-50/125μm)**
- **X (OM3-10 GbE)**

**Substitute for length in meters:** 1, 2, 3, 5 or 10 for patch cords, and 1, 2 or 3 for pigtails; singlemode patch cords are also available in 12, 15, 25 or 30 meter lengths. Contact Customer Service for other available lengths.
LC Fiber Optic Connectors

**Performance Information**

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Description</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification test suite (TIA/EIA-568-B.3 requirements)</td>
<td>Complete testing protocol per TIA/EIA-568-B.3 using TIA/EIA FOTPs that include mechanical, environmental and optical test sequences</td>
<td>Compliant; exceeds TIA/EIA-568-B.3 requirements</td>
</tr>
<tr>
<td>Connector intermatability</td>
<td>Dimensional and material compliance to TIA/EIA standards</td>
<td>All connectors are FOCIS compatible with TIA/EIA-604-3</td>
</tr>
</tbody>
</table>

**Selection Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Connector Type</th>
<th>Cable Type</th>
<th>Fiber</th>
<th>Ferrule</th>
<th>Housing Color</th>
<th>Boot Color</th>
<th>Average Insertion Loss**</th>
<th>Return Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLCSMEIY</td>
<td>Simplex</td>
<td>900µm buffered fiber and 1.6mm – 2.0mm jacketed cable</td>
<td>OM1 Multimode</td>
<td>Zirconia Ceramic</td>
<td>Electric Ivory</td>
<td>Electric Ivory</td>
<td>0.1dB</td>
<td>&gt;20</td>
</tr>
<tr>
<td>FLCSM3.0EI</td>
<td>Simplex</td>
<td>3.0mm jacketed cable</td>
<td>OM2, OM3, OM4 Multimode</td>
<td>Zirconia Ceramic</td>
<td>Black</td>
<td>Aqua</td>
<td>0.1dB</td>
<td>&gt;20</td>
</tr>
<tr>
<td>FLCDM900EIY</td>
<td>Duplex</td>
<td>900µm buffered fiber</td>
<td>OM2, OM3, OM4 Multimode</td>
<td>Zirconia Ceramic</td>
<td>Electric Ivory</td>
<td>Electric Ivory</td>
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<td>&gt;20</td>
</tr>
<tr>
<td>FLCSSBUY</td>
<td>Simplex</td>
<td>900µm buffered fiber and 1.6mm – 2.0mm jacketed cable</td>
<td>Singlemode</td>
<td>Zirconia Ceramic</td>
<td>Electric Ivory</td>
<td>Electric Ivory</td>
<td>0.1dB</td>
<td>&gt;40</td>
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<tr>
<td>FLCD900BUY</td>
<td>Duplex</td>
<td>900µm buffered fiber</td>
<td>Singlemode</td>
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</tr>
</tbody>
</table>

*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.*

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**LC Simplex Connectors**

For 900µm Buffered Fiber or 1.6mm – 2.0mm Jacketed Cable

- **FLCSMEIY, FLCSSBUY**

For 3.0mm Jacketed Cable

- **FLCSM3.0EI, FLCSS3.0BU**

**LC Duplex Connectors**

For 1.6mm – 2.0mm Jacketed Cable

- **FLCDM900EIY, FLCD900BUY**

For 3.0mm Jacketed Cable

- **FLCD3.0EI, FLCD3.0BU**

Dimensions are in inches [Dimensions in brackets are in millimeters].

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For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com

or by phone: 800.777.3300

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