

The LC connector was developed to meet the growing demand for small form factor, higher density fiber optic connectivity. With this connector, space requirements on equipment bays, in distribution panels, and on wall plates has been reduced by 50%, over 2.50mm (.098") ferrule connectors, without sacrificing performance.

Common and proven technologies have been combined in the LC connector system to deliver a high performance and easy to implement fiber optic interface. Utilizing the craft friendly RJ-45 telephone plug interface, the LC connector provides a reliable and robust latching mechanism while the time tested 1.25mm (.049") pre-radius ceramic ferrule is used to terminate the fiber.

Molex LC connectors are available in both simplex and duplex configurations. Available in industry standard beige (multimode), blue (single mode), and green (angle polish) colors, and will accommodate

900um buffered fiber, 1.60mm (.063"), 2.00mm (.079"), or 3.00mm (.118") jacketed cable. With its 6 position tuning feature, the connector may be used to achieve unprecedented insertion loss performance by optimizing the alignment of the fiber cores. Additionally, 45° and 90° boot options are available for 1.60mm (.063") and 2.00mm (.079") jacketed cable.

Simplex, Duplex and Quad LC mating adapters are also available in blue, beige, green and aqua colors. The adapters are available in snap mount or screw mount configurations, ceramic or metal alignment sleeves, and can also be provided with safety shutters on one or both sides to help prevent eye injuries. LC EMI shielding adapters featuring metal housings are also available for use in EMI/RFI sensitive applications.



### Features and Benefits

- Versatile RJ-45 latching system provides familiar user interface
- 1.25mm (.049") Zirconia ceramic ferrule provides a high performance and reliable connection
- Tunable connector allows optimization of insertion loss performance
- Simplex and Duplex styles providing unidirectional or bidirectional communication
- Tested to Telcordia GR-326 and Compliant to TIA/EIA-604-10A (FOCIS-10) ensuring long lasting reliability and interminability

### SPECIFICATIONS

#### Reference Information:

#### Specifications:

Packaging: Bag

Mates with: 106124, 106125, 106126, 106127, and 106128 Series LC simplex or duplex adapters

Designed in: Millimeters

#### Mechanical:

Mating Durability: IL<0.2dB change over 200 cycles

#### Physical:

Ferrule: Zirconia Ceramic

Housing and boot: UL 94V-0 rated Polymer

Alignment sleeves: Zirconia Ceramic or Phosphor Bronze

Operating Temperature: -40°C to +85°C

### APPLICATIONS

#### Applications:

- Telecommunication equipment
- Data communication equipment
- Local Area Networks (LAN)
- Wide Area Networks (WAN)
- Active Device terminations
- Premise equipment termination



**Simplex LC Connectors**

| Part Number | Type        | Cable Size | Boot Type  | Connector Color |
|-------------|-------------|------------|------------|-----------------|
| 106024-3500 | Multimode   | 900um      | Straight   | Beige           |
| 106024-3000 |             |            |            |                 |
| 106024-7180 |             |            |            |                 |
| 106024-3400 |             | 1.60mm     | 45° Angled |                 |
| 106024-3300 |             |            | 90° Angled |                 |
| 106024-7185 |             |            |            |                 |
| 106024-3600 |             | 2.00mm     | Straight   |                 |
| 106024-3250 |             |            | 45° Angled |                 |
| 106024-5500 |             |            | 90° Angled |                 |
| 106024-5000 | Single Mode | 900um      | Straight   | Blue            |
| 106024-7140 |             |            |            |                 |
| 106024-5400 |             |            |            |                 |
| 106024-5300 |             | 1.60mm     | 45° Angled |                 |
| 106024-7145 |             |            | 90° Angled |                 |
| 106024-5600 |             |            |            |                 |
| 106024-5250 |             | 2.00mm     | Straight   |                 |
| 106090-2800 |             |            | 45° Angled |                 |
| 106090-2230 |             |            | 90° Angled |                 |
| 106090-2240 | APC         | 900um      | Straight   | Green           |
| 106090-2200 |             |            |            |                 |
| 106090-2260 |             | 1.60mm     | 90° Angled |                 |
|             |             |            | Straight   |                 |
|             |             | 2.00mm     | 90° Angled |                 |

**Duplex LC Connectors**

| Part Number | Type      | Cable Size  | Boot Type  | Connector Color | Duplex Clip     |             |        |
|-------------|-----------|-------------|------------|-----------------|-----------------|-------------|--------|
| 106025-3000 | Multimode | 1.60mm      | Straight   | Beige           | 1 piece push-on |             |        |
| 106025-7180 |           |             | 45° Angled |                 |                 |             |        |
| 106025-3400 |           |             | 90° Angled |                 |                 |             |        |
| 106025-3300 |           | 2.00mm      | Straight   |                 |                 |             |        |
| 106025-7185 |           |             | 45° Angled |                 |                 |             |        |
| 106025-3600 |           |             | 90° Angled |                 |                 |             |        |
| 106025-3250 |           | Single Mode | 3.00mm     |                 |                 | Straight    | Blue   |
| 106025-5000 |           |             |            |                 |                 |             |        |
| 106025-7140 |           |             |            |                 |                 |             |        |
| 106025-5400 | 1.60mm    |             | 45° Angled |                 |                 |             |        |
| 106025-5300 |           |             | 90° Angled |                 |                 |             |        |
| 106025-7145 |           |             |            |                 |                 |             |        |
| 106025-5600 | 2.00mm    |             | Straight   |                 |                 |             |        |
| 106025-5250 |           |             | 45° Angled |                 |                 |             |        |
| 106090-2830 |           |             | 90° Angled |                 |                 |             |        |
| 106090-2250 | APC       | 1.60mm      | Straight   | Green           |                 |             |        |
| 106090-2810 |           |             | 90° Angled |                 |                 |             |        |
| 106090-2270 |           | 2.00mm      | Straight   |                 |                 |             |        |
| 106025-3800 |           |             | 90° Angled |                 |                 |             |        |
| 106025-3150 | Multimode | 3.00mm      | Straight   | Beige           | 2 piece snap-on |             |        |
| 106025-5800 |           |             |            |                 |                 |             |        |
| 106025-5150 |           |             |            |                 |                 | Single Mode | 2.00mm |
|             | 3.00mm    |             |            |                 |                 |             |        |

**Simplex LC Adapters**

| Part Number | Sleeve  | Color | Mounting type | Housing Style |
|-------------|---------|-------|---------------|---------------|
| 106124-0010 | Metal   | Beige | Snap          | Low Profile   |
| 106124-1010 | Ceramic |       |               |               |
| 106124-1200 |         | Aqua  |               |               |
| 106124-0000 | Metal   | Blue  |               |               |
| 106124-1000 | Ceramic |       |               |               |
| 106124-1050 |         | Green |               |               |
| 106124-0110 | Metal   | Beige |               | Standard      |
| 106124-1110 | Ceramic |       |               |               |
| 106124-0100 | Metal   | Blue  |               |               |
| 106124-1100 | Ceramic |       |               |               |
| 106124-1150 |         | Green |               |               |

**Duplex LC Adapters**

| Part Number | Sleeve   | Color    | Mounting type  | Housing Style            | Note                 |                      |
|-------------|----------|----------|----------------|--------------------------|----------------------|----------------------|
| 106125-0110 | Metal    | Beige    | Snap           | Large                    | MT-RJ Mounting       |                      |
| 106125-1110 | Ceramic  |          |                |                          |                      |                      |
| 106125-0100 | Metal    | Blue     |                |                          |                      |                      |
| 106125-1100 | Ceramic  |          |                |                          |                      |                      |
| 106125-0010 | Metal    | Beige    |                | Low Profile (Half Large) |                      |                      |
| 106125-1010 | Ceramic  |          |                |                          |                      |                      |
| 106125-0000 | Metal    | Blue     |                |                          |                      |                      |
| 106125-1000 | Ceramic  |          |                |                          |                      |                      |
| 106125-0210 | Metal    | Beige    | Retaining Clip |                          |                      |                      |
| 106125-1210 | Ceramic  |          |                |                          |                      |                      |
| 106125-0200 | Metal    | Blue     |                |                          |                      |                      |
| 106125-1200 | Ceramic  |          |                |                          |                      |                      |
| 106126-0410 | Metal    | Beige    | Snap           | SC Simplex Mounting      | No Shutters          |                      |
| 106126-0690 | Metal    | Die-Cast |                |                          |                      |                      |
| 106126-1400 | Ceramic  | Blue     |                |                          |                      |                      |
| 106126-1430 |          | Aqua     |                |                          |                      |                      |
| 106126-1450 |          | Green    |                |                          |                      |                      |
| 106126-1690 |          | Die-Cast |                |                          |                      |                      |
| 106126-0310 | Metal    | Beige    | Screw          |                          | SC Simplex Mounting  | No Shutters          |
| 106126-0590 | Ceramic  | Die-Cast |                |                          |                      |                      |
| 106126-1300 |          | Blue     |                |                          |                      |                      |
| 106126-1350 |          | Green    |                |                          |                      |                      |
| 106126-1590 |          | Metal    | Die-Cast       | Snap                     |                      | SC Simplex Mounting  |
| 106127-0410 | Beige    |          |                |                          |                      |                      |
| 106127-1610 | Aqua     |          |                |                          |                      |                      |
| 106127-0690 | Die-Cast |          |                |                          |                      |                      |
| 106127-1400 | Ceramic  | Blue     | Screw          | SC Simplex Mounting      | Shutters on one side |                      |
| 106127-1690 |          | Die-Cast |                |                          |                      |                      |
| 106127-1450 |          | Green    |                |                          |                      |                      |
| 106127-0310 |          | Beige    |                |                          |                      |                      |
| 106127-0590 | Metal    | Die-Cast | Screw          |                          | SC Simplex Mounting  | Shutters on one side |
| 106127-1300 | Ceramic  | Blue     |                |                          |                      |                      |
| 106127-1590 |          | Die-Cast |                |                          |                      |                      |
| 106127-1350 |          | Green    |                |                          |                      |                      |

**Quad LC Adapters**

| Part Number | Sleeve  | Color | Mounting type | Housing Style      | Note               |                      |
|-------------|---------|-------|---------------|--------------------|--------------------|----------------------|
| 106123-1300 | Metal   | Beige | Snap          | SC Duplex Mounting | No Shutters        |                      |
| 106123-3300 |         | Aqua  |               |                    |                    |                      |
| 106123-0300 | Ceramic | Blue  |               |                    |                    |                      |
| 106123-2300 |         | Green |               |                    |                    |                      |
| 106123-1100 | Metal   | Beige | Screw         |                    | SC Duplex Mounting | No Shutters          |
| 106123-3100 |         | Aqua  |               |                    |                    |                      |
| 106123-0100 | Ceramic | Blue  |               |                    |                    |                      |
| 106123-2100 |         | Green |               |                    |                    |                      |
| 106123-1200 | Metal   | Beige | Screw         | SC Duplex Mounting |                    | Shutters on one side |
| 106123-3200 |         | Aqua  |               |                    |                    |                      |
| 106123-0200 | Ceramic | Blue  |               |                    |                    |                      |
| 106123-2200 |         | Green |               |                    |                    |                      |
| 106123-1400 | Metal   | Beige | Snap          |                    | SC Duplex Mounting | Shutters on one side |
| 106123-3400 |         | Aqua  |               |                    |                    |                      |
| 106123-0400 | Ceramic | Blue  |               |                    |                    |                      |
| 106123-2400 |         | Green |               |                    |                    |                      |

[www.molex.com/product/fiber](http://www.molex.com/product/fiber)

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