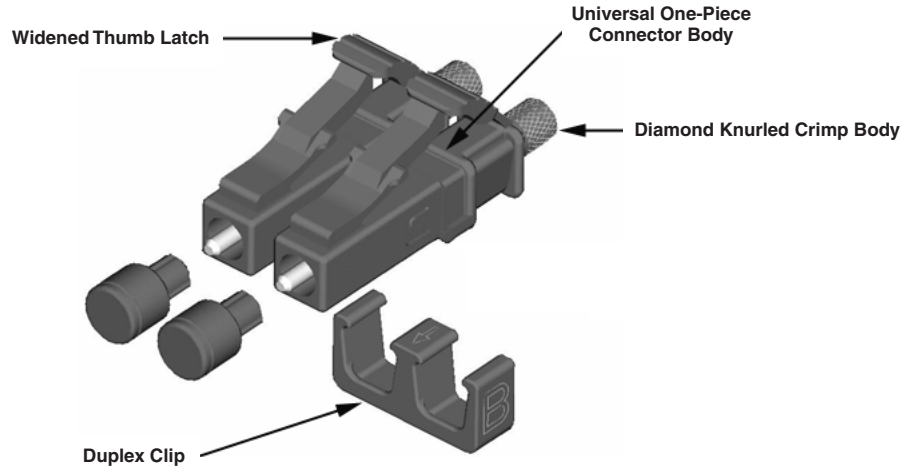


## LC Optical Connectors

### One-Piece LC Connector

#### Product Facts

- Singlemode Telecordia GR-326 tested (Report #501-652)
- Multimode TIA/EIA 568-B.3 tested
- Singlemode and Multimode are compatible with both anaerobic adhesives and heat cure epoxy adhesives
- Universal Connector Body
  - Common body for simplex or duplex
  - Common body for jumper or buffer applications
  - Fewer parts to inventory
- Duplex Clip
  - Field installable
  - Makes simplex assemblies duplex
  - Works to correct polarity errors
  - Used for both jumpers and buffered fiber applications
- One-Piece Body
  - Improved rigidity
  - Improved side-load strength



- Color coded to comply with 568 C
  - Aqua for 50/125 laser optimized
  - Black for standard 50/125
  - Beige for 62.5/125
  - Blue for singlemode

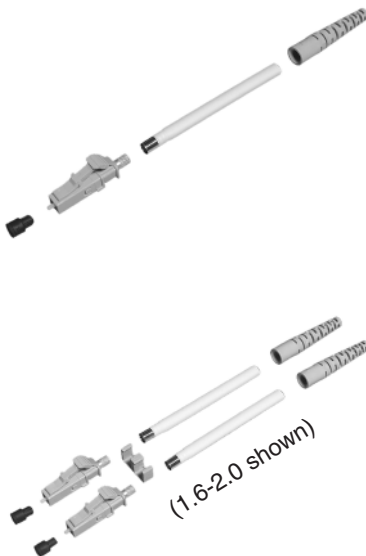
- Widened Thumb Latch
  - Increased hit area
  - Increased bend strength
  - Ramped front latch for snag resistance
- Diamond Knurled Crimp Body
  - Increased tensile proof strength
  - Identical to Tyco Electronics' SC/FC design

**Performance Characteristics**  
 Insertion Loss — 0.2 dB Typical  
 Reflectance — -55 dB Typical  
 Operating Temperature — -40°C to +75°C  
 Durability — 500 Cycles

#### LC Connector Kits

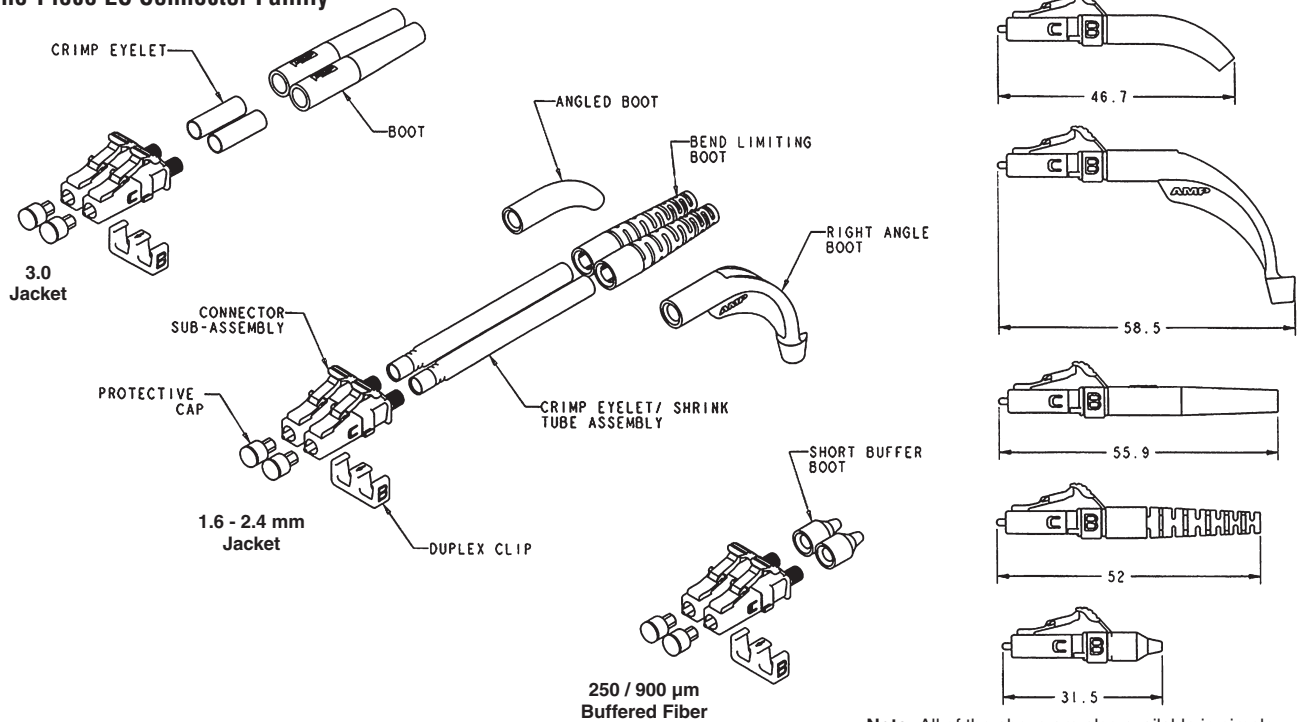
| Description | Fiber Type                | Housing Color | Boot Color | Used with            | Individual Pack Part Number | Bulk Pack Part Number |
|-------------|---------------------------|---------------|------------|----------------------|-----------------------------|-----------------------|
| Simplex     | Singlemode                | Blue          | Blue       | 900 $\mu$ m Buffered | 1918384-1                   | 1918384-2             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918266-1                   | 1918266-2             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918374-1                   | 1918374-2             |
|             |                           | Beige         | Aqua       | 900 $\mu$ m Buffered | 1918385-3                   | 1918385-5             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918267-3                   | 1918267-5             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918375-3                   | 1918375-5             |
|             | Multimode                 | Beige         | Black      | 900 $\mu$ m Buffered | 1918385-4                   | 1918385-6             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918267-4                   | 1918267-6             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918375-4                   | 1918375-6             |
|             |                           | Beige         | Beige      | 900 $\mu$ m Buffered | 1918385-1                   | 1918385-2             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918267-1                   | 1918267-2             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918375-1                   | 1918375-2             |
| Duplex      | Singlemode                | Blue          | Blue       | 900 $\mu$ m Buffered | 1918387-1                   | 1918387-2             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918372-1                   | 1918372-2             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918376-1                   | 1918376-2             |
|             |                           | Beige         | Aqua       | 900 $\mu$ m Buffered | 1918388-3                   | 1918388-5             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918373-3                   | 1918373-5             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918377-3                   | 1918377-5             |
|             | Multimode                 | Beige         | Black      | 900 $\mu$ m Buffered | 1918388-4                   | 1918388-6             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918373-4                   | 1918373-6             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918377-4                   | 1918377-6             |
|             |                           | Beige         | Beige      | 900 $\mu$ m Buffered | 1918388-1                   | 1918388-2             |
|             |                           |               |            | 1.6-2.0 mm Jacketed  | 1918373-1                   | 1918373-2             |
|             |                           |               |            | 3.0 mm Jacketed      | 1918377-1                   | 1918377-2             |
| Duplex Clip | For use with Simplex Kits | Black         | —          | —                    | 1754371-1                   | —                     |

**Note:** All part numbers are RoHS compliant.



## LC Optical Connectors (Continued)

### One-Piece LC Connector Family



Note: All of the above are also available in simplex.

### LC Connector Component Selection Chart (bulk packaged)

| Fiber Type             | Simplex Connector Assembly & Dust Cap | Duplex Clip | Cable Size  | Crimp Eyelet with Heat Shrink | Crimp Eyelet | Strain Relief Description | Strain Relief Part Number (see chart below) |
|------------------------|---------------------------------------|-------------|-------------|-------------------------------|--------------|---------------------------|---------------------------------------------|
| Singlemode (blue hsg.) | 1828456-1                             | 1754371-1   | 1.6-2.0 mm  | 6374150-1                     | —            | Straight/Bend Limiting    | 1588153-X                                   |
|                        |                                       |             | 1.6-2.0 mm  | 6374150-1                     | —            | Angled                    | 1374737-X                                   |
|                        |                                       |             | 1.6-2.0 mm  | 6374150-1                     | —            | 50 Degree Angle           | 6457543-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | Straight/Bend Limiting    | 1588153-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | Angled                    | 1374737-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | 50 Degree Angle           | 6457543-X                                   |
|                        |                                       |             | 3.0 mm      | —                             | 5504118-3    | Straight                  | 502716-X                                    |
|                        |                                       |             | 900 $\mu$ m | —                             | —            | 900 $\mu$ m Buffer, 10 mm | 6588612-X                                   |
|                        |                                       |             | 1.6-2.0 mm  | 6374150-1                     | —            | Straight/Bend Limiting    | 1588153-X                                   |
|                        |                                       |             | 1.6-2.0 mm  | 6374150-1                     | —            | Angled                    | 1374737-X                                   |
| Multimode (beige hsg.) | 1754625-1                             | 1754371-1   | 1.6-2.0 mm  | 6374150-1                     | —            | 50 Degree Angle           | 6457543-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | Straight/Bend Limiting    | 1588153-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | Angled                    | 1374737-X                                   |
|                        |                                       |             | 2.4 mm      | 6588189-1                     | —            | 50 Degree Angle           | 6457543-X                                   |
|                        |                                       |             | 3.0 mm      | —                             | 5504118-3    | Straight                  | 502716-X                                    |
|                        |                                       |             | 900 $\mu$ m | —                             | —            | 900 $\mu$ m Buffer, 10 mm | 6588612-X                                   |



Crimp Tool Dieset only - 1588175-1  
Crimp Tool with Dieset - 1588176-1  
Instruction Sheet: 408-8675  
<http://www.tycoelectronics.com/documents>

Termination Kit - 1754462-1  
Upgrade Kit for Anaerobic terminations - 1754603-1

### Strain Relief Color

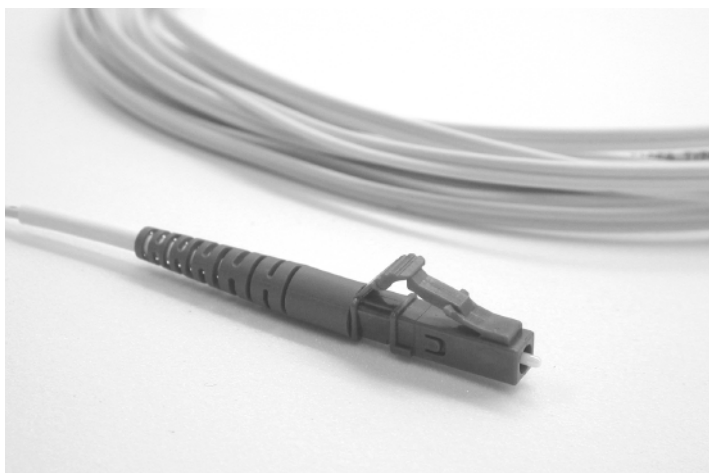
| Base Part Number | Beige | Blue | Black | Red | Aqua |
|------------------|-------|------|-------|-----|------|
| 1588153          | -5    | -2   | -3    | —   | -8   |
| 1374737          | -2    | -1   | -3    | —   | —    |
| 6457543          | -1    | -2   | -4    | —   | —    |
| 502716           | -3    | -4   | -1    | -5  | -11  |
| 6588612          | -1    | -2   | -5    | -4  | -8   |

Note: All part numbers are RoHS compliant.

## LC Optical Cable Assemblies

### Product Facts

- For high performance applications/high density
- 125  $\mu$ m Ceramic Ferrule Technology
- Small size — 1/2 size of standard SC and FC products
- Singlemode and multimode
- Tuned singlemode assemblies
- High performance small size cable
  - 900  $\mu$ m buffered fiber assemblies
  - 2.0 mm cable assemblies
- Hybrid assemblies available with all standard connectors
- Hybrid SC's and FC's terminated to 2.0 mm cable and 900  $\mu$ m buffered fiber
- Factory terminated/factory tested



LC Cable Assembly

### Performance Characteristics

#### Insertion Loss —

Singlemode — .25 dB max.; < .1 dB typ.

Multimode — .1 dB typ.;

.1 dB typ.  $\sigma$

#### Return Loss —

Singlemode — 55 dB; PC endface

Multimode — 20 dB

| Description                                           | Cable Type                 | Part Numbers/Lengths (m) |           |           |           |           |             |
|-------------------------------------------------------|----------------------------|--------------------------|-----------|-----------|-----------|-----------|-------------|
|                                                       |                            | 1                        | 2         | 3         | 4         | 5         | 10          |
| Simplex                                               |                            |                          |           |           |           |           |             |
| Singlemode                                            | 2.0 mm Jacketed Riser      | 6374110-1                | 6374110-2 | 6374110-3 | 6374110-4 | 6374110-5 | 1-6374110-0 |
| Duplex                                                |                            |                          |           |           |           |           |             |
| 50/125 μm Multimode                                   | 2.0 mm Jacketed Riser      | 6374658-1                | 6374658-2 | 6374658-3 | 6374658-4 | 6374658-5 | 1-6374658-2 |
| Laser Optimized (10 Gig) (850 nm 50/125 μm) Multimode | 2.0 mm Aqua Jacketed Riser | 6828317-1                | 6828317-2 | 6828317-3 | 6828317-4 | 6828317-5 | 1-6828317-0 |
| 62.5/125 μm Multimode                                 | 2.0 mm Jacketed Riser      | 6374659-1                | 6374659-2 | 6374659-3 | —         | 6374659-5 | 1-6374659-0 |

**Note:** All part numbers are RoHS compliant.