

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	Green		
106124-1050				
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		Metal				
106127-0590	Die-Cast					
106127-1300	Blue					
106127-1590	Die-Cast					
106127-1350	Ceramic	Green	Screw		SC Simplex Mounting	Shutters on one side

**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	Snap	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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