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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



ORDERING INFORMATION



LC Connectors and Adapter

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Simplex LC Connectors

Part Number	Type	Cable Size	Boot Type	Connector Color
106024-3500	Multimode	900um	Straight	Beige
106024-3000		1.60mm		
106024-7180			90° Angled	
106024-3400		2.00mm	Straight	
106024-3300			45° Angled	
106024-7185			90° Angled	
106024-3600			90° Angled	
106024-3250		3.00mm	Straight	
106024-5500	900um			
106024-5000	1.60mm	45° Angled		
106024-7140			90° Angled	
106024-5400			Straight	
106024-5300	2.00mm	45° Angled		
106024-7145		90° Angled		
106024-5600		90° Angled		
106024-5250	3.00mm	Straight	Green	
106090-2800	900um			
106090-2230	1.60mm	90° Angled		
106090-2240				Straight
106090-2200	2.00mm	90° Angled		
106090-2260				

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	3.00mm	Straight	Blue		
106025-5000	1.60mm			45° Angled	
106025-7140		90° Angled			
106025-5400		2.00mm		Straight	
106025-5300	45° Angled				
106025-7145	90° Angled				
106025-5600	3.00mm	Straight	Green		
106025-5250				1.60mm	
106090-2830		2.00mm			
106090-2250	90° Angled				
106090-2810	Straight			90° Angled	
106090-2270		Multimode			3.00mm
106025-3800	Single Mode		2.00mm	Blue	
106025-3150					
106025-5800					
106025-5150					

Simplex LC Adapters

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

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LC Connectors and Adapter

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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					
106125-1100	Ceramic					
106125-0010	Metal	Beige		Retaining Clip		Low Profile (Half Large)
106125-1010	Ceramic					
106125-0000	Metal					
106125-1000	Ceramic	Blue				
106125-0210	Metal					
106125-1210	Ceramic					
106125-0200	Metal					
106125-1200	Ceramic	Blue				
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			
106126-0590		Die-Cast				
106126-1300	Ceramic	Blue				
106126-1350		Green				
106126-1590		Die-Cast				
106127-0410	Metal	Beige			Snap	
106127-1610		Aqua				
106127-0690		Die-Cast				
106127-1400	Ceramic	Blue	Screw			
106127-1690		Die-Cast				
106127-1450		Green				
106127-0310	Metal	Beige				
106127-0590		Die-Cast				
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		
106123-3100		Aqua						
106123-0100	Ceramic	Blue					Snap	Shutters on one side
106123-2100		Green						
106123-1200	Metal	Beige						
106123-3200		Aqua						
106123-0200	Ceramic	Blue						
106123-2200		Green						
106123-1400	Metal	Beige						
106123-3400		Aqua						
106123-0400	Ceramic	Blue						
106123-2400		Green						

www.molex.com/product/fiber

Americas Headquarters
Lisle, Illinois 60532 U.S.A.
1-800-78MOLEX
amerinfo@molex.com

Asia Pacific North Headquarters
Yamato, Kanagawa, Japan
81-46-265-2325
apninfo@molex.com

Asia Pacific South Headquarters
Jurong, Singapore
65-6268-6868
fesinfo@molex.com

European Headquarters
Munich, Germany
49-89-413092-0
eurinfo@molex.com

Corporate Headquarters
2222 Wellington Ct.
Lisle, IL 60532 U.S.A.
P: 630-969-4550 F: 630-969-1352