

LC2+ Metal Optical Connectors

molex

Molex LC2+ Metal Optical Connectors are one of the only product lines with metal housings, delivering a high-performance, discrete-fiber solution for use in severe operating environments in industrial, telecom, military and medical applications

Features and Advantages

Connectors available in standard, high-temperature and sealed versions

Provides customers with design flexibility

Interface dimensions comply to IEC 61754-20, Type LC Connectors

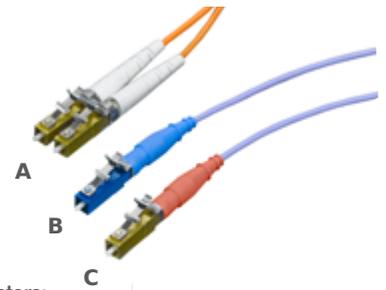
Compatible with LC interconnects

LC2+ Connectors:

A: Standard, Duplex

B: Sealed, Simplex

C: High temperature, Simplex



High-temperature metal body

Withstands long-run operating temperatures up to +150°C, beyond the range of standard plastic-body LC interconnects

Simplex, duplex, single-mode and multi-mode versions

Provide a variety of connection options to suit many applications

Enhanced metal latch over plastic LC connector

Improves latch retention and is designed to withstand severe shock and vibration situations



Multiple strain-relief boot styles available

Address cable-routing issues and support many cable sizes and applications, including 900µm buffered fiber, 1.60mm (.063") and 2.00mm (.079") jacketed cable and 90° strain-relief routing configuration

Sealing O-ring and strain-relief boots available (on sealed versions)

Protect expensive devices from moisture propagation through the connector

Designed to withstand extended severe shock and vibration exposure without risk of failure

Ideal for applications in harsh environments

Metal body and latch version of the popular LC connector system

Fully compatible with all LC form-factor connectors, adapters, active devices and tooling

Markets and Applications

Telecommunication and Data

Communication Equipment

- Wireless antennas
- Vault I/O's
- Video transmission

Industrial

- Motor, process and quality-control sensors
- Physical, chemical and biological- presence sensors
- Wet processing metering
- Security cameras
- Mining communications
- Oil and gas exploration sensors

Medical Applications

- Operating rooms
- Diagnostic equipment

Military / Aerospace Applications

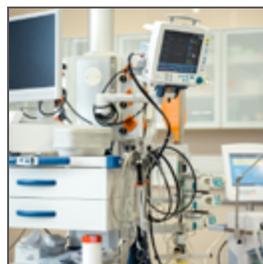
- Field-command centers
- Field-tactical cables
- Servers
- Switches
- Avionics

- Vetronics (advanced vehicular electronics for communication, sensing and management systems)
- High-security/reliability communications

Equipment Manufacturers

Integrators and Installers

Defense Contractors



Surgical Equipment



Field Command Center



Factory Automation

LC2+ Metal Optical Connectors



Specifications

REFERENCE INFORMATION

Packaging: Bag

Mates With: LC adapters

106124 LC Simplex Plastic Adapters

106125 LC Duplex Plastic Adapters

106115 LC Duplex EMI Adapters

106123 LC Quad Plastic and/or EMI Adapters

Use With: 900µm buffered fiber; 1.60mm (.063"), and 2.00mm (.079") jacketed cable; 90° strain-relief routing configurations

Designed In: Millimeters

Product environmental compliance status is listed with part-level detail on www.molex.com

MECHANICAL

Durability: Minimum 200 mate/demate cycles

PHYSICAL

Housing: Metal

Latch: Metal

Ferrule: Zirconia Ceramic

Standard Operating Temperature: -40 to +70°C

High-Temp Operating Temperature: -60 to +150°C

Interface dimensions comply to IEC 61754-20, Type LC Connectors

Ordering Information

Order No.	Version	Connector Type	Connector Housing Color	Mode	Boot	Boot Color	Cable Type
106397-1902	Standard	Simplex	Blue	Single Mode	Straight	Blue	900um
106397-2102			Gold			White	
106397-1304			Blue	2.0 mm			
106397-1502			Gold			White	
106397-2202		Duplex	Blue	Single Mode		Blue	900um
106397-2402			Gold	Multi Mode		White	900um
106397-3000			Blue	Single Mode		Blue	2.0 mm
106397-3010			Gold	Multi Mode		White	
106397-1862			Gold			90°	
106372-1301			Sealed	Simplex		Blue	Single Mode
106372-1500	Gold	Multi Mode					
106372-2301	Duplex	Blue		Single Mode			
106372-2500		Gold		Single Mode			
106397-5301	High Temperature	Simplex	Blue	Single Mode	Straight	Red	900um 1.6 mm 2.0 mm
106397-5500			Gold	Multi Mode	Straight	Red	
106397-5321		Duplex	Blue	Single Mode	Straight	Red	
106397-5520			Gold	Multi Mode	Straight	Red	

*Additional connector variations are available and cable assemblies can be built to meet customer requirements. Contact Molex Customer Service for inquiries.

Order No.	Version	Adapter Type	Plastic Shutter Door Color	LC Sleeve Material	Conductive Gasket
106127-0300	Sealed	Duplex	Blue	Zirconia	No
106127-0320			Beige	Phosphor Bronze	No
106127-0150			Blue	Zirconia	Yes
106127-0160			Beige	Phosphor Bronze	Yes

www.molex.com/product/lc2+.html

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