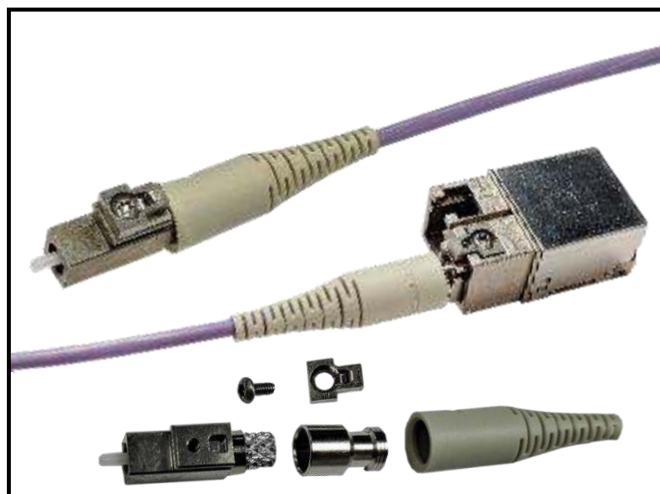


Features:

- Rugged all metal design replaces plastic LC connector with deflectable tab
- Secure interface useful for high shock and vibration applications
- Separable for repair of fiber jumper to box/LRU level connector
- Supports standard or short strain relief boots
- Excellent Insertion and Return Loss
- Can be terminated on 2-3 mm diameter fiber cables or 900µm buffered fiber
- Flush with top of LC receptacle
- Metric threaded secure Torx T5 screw
- Designed and tested to operate in humid environments
- Improved tamper resistance vs. plastic tab LCs
- For use in COTSWORKS Transceivers



LC-Rugged™ is ideal for harsh environments, especially military and aerospace applications.



Commercial Aerospace



Military Aerospace



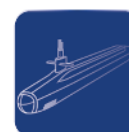
Military Tactical



Industrial Oil & Gas



Military Sensing



Undersea Networking

General Description

The LC Rugged™ (LC-R) is an all-metal construction LC connector with a latching screw system that offers a highly reliable and separable interface. Standard plastic LCs can sag over time and temperature while the LC Rugged™ offers a more secure metal connection. Designed to MIL-STD, TIA, and ARINC 801 environmental performance, the patented retention mechanism offers excellent connector retention in extreme environments. LC-R insertion loss averages 0.06dB using an 850nm VCSEL light source. The LC-R can be ordered as part of a cable assembly or a fully integrated solution as part of a pigtailed transceiver assembly.

Specifications

Mechanical Specifications

- Color coded to meet aerospace specifications
- Standard cable retention exceeds 15.00 lbf
- Connector retention exceeds EIA-364-38B

Configuration Specifications

- Multimode version – Beige boot
- Singlemode version – Blue boot
- Contact COTSWORKS for different boot options

Environmental Specifications

- Operating temperature of -50°C to + 95°C
- Storage temperature -55°C to +105°C
- Humidity 95% (non-condensing)
- Mechanical shock per MIL-STD-883 (1,500g, 0.5ms)
- Vibration per MIL-STD-883 (20g)

Agency/Safety Specifications

- RoHS requirements per 6/6

Installation Guidelines

- Use 12 in-oz installation torque on Torx T5 screw
- Threadlock adhesive recommended for high shock and vibration environments
- Connector available as part of a cable assembly or as termination kit





Ordering Information

LC-R	-X	-XXX
Product Family	-M: Multimode	Blank: Connector Only
	-S: Single-mode	-1D8: Termination Kit for 1.6mm to 2.2mm
	-Q: 100/140 Multimode	-900: Termination Kit for 900µm Buffered Fiber

Example part number: LC-R-M-1D8 [A multimode LC-R Termination Kit for 1.6mm to 2.2mm Jacketed Fiber]
Example part number: LC-R-S [A single-mode LC-R Connector]

Contact COTSWORKS for mechanical dimensional information and other configuration options.

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