

Features:

- Rugged all metal design replaces plastic LC connector tab type
- Secure interface useful for high shock and vibration applications
- Separable for repair of fiber jumper to box/LRU level connector
- Supports standard or short LC connector boots
- Excellent Insertion and Return Loss
- Can be terminated on 2-3 mm diameter fiber cables
- Flush screw/T-Clip to top of LC receptacle design makes thermal and fiber management easier inside LRUs
- Metric threaded secure Torx 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



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 “screw/T” mechanism offers excellent insertion loss averaging 0.06dB using a 850nm VSCEL 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. OEMs can purchase a kit for internal termination use.

Specifications

Mechanical Specifications

- Compatible with most LC based transceivers
- 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
- Vibration per MIL-STD-883

Agency/Safety Specifications

- RoHS requirements per 6/6



Locking metallic T and Screw



Side by side locked and unlocked

Ordering Information

LC-R-x, M = Multimode, S = Singlemode. Contact COTSWORKS for mechanical dimension information.

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