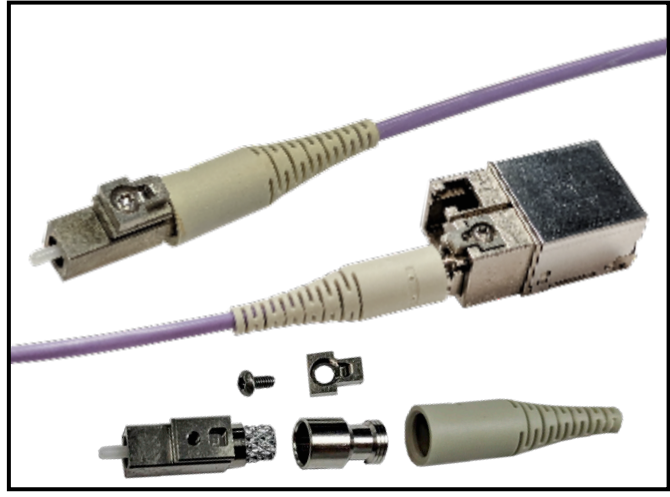
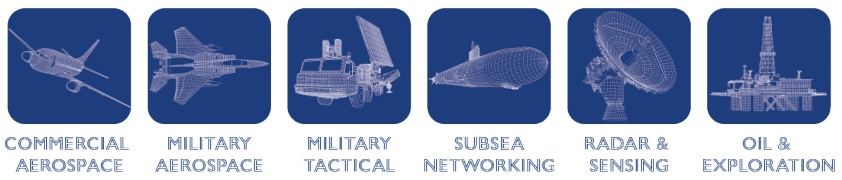


### Features:

- 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 1.6mm to 2.2mm 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.**



### 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

<p><b>Mechanical Specifications</b></p> <ul style="list-style-type: none"> <li>• Color coded to meet aerospace specifications</li> <li>• Standard cable retention exceeds 15.00lbf</li> <li>• Connector retention exceeds EIA-364-38B</li> </ul> <p><b>Configuration Specifications</b></p> <ul style="list-style-type: none"> <li>• Multimode version – Beige boot</li> <li>• Singlemode version – Blue boot</li> <li>• Contact COTSWORKS for different boot options</li> </ul>	<p><b>Environmental Specifications</b></p> <ul style="list-style-type: none"> <li>• Operating temperature of –50°C to +95°C</li> <li>• Storage temperature –55°C to +105°C</li> <li>• Humidity 95% (non-condensing)</li> <li>• Mechanical shock per MIL-STD-883 (1,500g, 0.5ms)</li> <li>• Vibration per MIL-STD-883 (20g)</li> </ul> <p><b>Agency/Safety Specifications</b></p> <ul style="list-style-type: none"> <li>• RoHS requirements per 6/6</li> </ul>
<p><b>Installation Guidelines</b></p> <ul style="list-style-type: none"> <li>• Use 12 in.-oz installation torque on Torx T5 screw</li> <li>• Threadlock adhesive recommended for high shock and vibration environments</li> <li>• Connector available as part of a cable assembly or as termination kit</li> </ul>	



### Ordering Information

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

**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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