

## Secure Keyed LC Field-Installable Connector

### APPLICATION

Secure Keyed LC anaerobic adhesive-style connectors are designed for quick and easy termination in the field. Eight colors are available to provide physical mechanical means of segregating or securing networks from unauthorized and inadvertent moves/adds/changes. The patent-pending duplex LC uni-body design feature prevents removal of connector by hand, and can only be removed with a matching color extraction tool.\* The system is ideal for government and military networks, data centers and colocation equipment rooms, and financial, academic, and healthcare market sectors.

\*Does not prevent malicious removal of connector.



### SPECIFICATION

Leviton's Secure Keyed LC anaerobic adhesive-style fiber optic connector shall meet or exceed the requirements described in TIA-568-C.3 and TIA-604-10A standard. Connector shall be field polished, field installable, and does not require a curing oven or proprietary tool to facilitate the termination of the 900  $\mu\text{m}$  fiber. Connector shall be secure in a manner that connector cannot be removed by hand but an extraction tool is used to prevent unauthorized or accidental moves/add/changes. Eight keyed connector color options shall be offered to identify and segregate fiber networks. Insertion loss performance shall be less than 0.5 dB maximum for both multimode and single-mode. Return loss performance shall be greater than -25 dB for multimode and greater than -50 dB for single-mode.

### FEATURES

- Patent-pending uni-body design prevent unauthorized and inadvertent MACs
- Duplex LC connector plugs into any industry compliant LC adapter or interface
- Eight keyed connector colors available to segregate and secure networks: white, yellow, orange, red, blue, green, slate, and black
- Anaerobic adhesive style connector for indoor and outdoor applications
- No curing oven or proprietary tool required
- Termination onto 250 or 900  $\mu\text{m}$  tight buffer cable
- 900  $\mu\text{m}$  boot identifies fiber type (sold separately)

### DESIGN CONSIDERATIONS

- Matching color extraction tool required to disengage assembly from adapter
- Boot color designates fiber type:
  - Beige for 62.5/125  $\mu\text{m}$  Multimode (OM1)
  - Black for 50/125  $\mu\text{m}$  Multimode (OM2)
  - Aqua for 50/125  $\mu\text{m}$  Laser Optimized Multimode (OM3/4)
  - Blue for Single-mode (OS1)
- Connector ferrules are zirconia ceramic
- Same connector used for MM and SM applications
- Similar termination process and consumables as used for Leviton Fast-Cure® connector
- Field inspection of connector endface using duplex LC 200x scope adapter (sold separately)

### PERFORMANCE SPECIFICATIONS

Insertion Loss:

Multimode	0.2 dB Typical
Single-mode	0.2 dB Typical

Return Loss:

Multimode	>-25 dB
Single-mode	>-55 dB

Operating Temperature: -40 °C to +85 °C

### STANDARDS COMPLIANCE

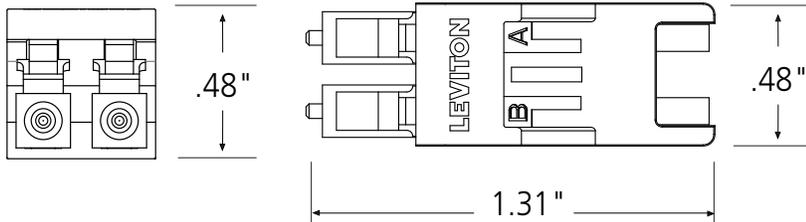
TIA-568-C.3; Optical Fiber Cabling Components Standard  
TIA-604-10A; Fiber Optic Connector Intermateability Standard  
GR-326; Generic Requirements for Single-mode Optical Connector and Jumper Assemblies

### WARRANTY INFORMATION

For a copy of Leviton product warranties, visit [www.leviton.com](http://www.leviton.com).

**ELECTRONIC FILES**

For CAD files, typical specs, or technical drawings (.DXF, .DWG, Visio), visit [www.leviton.com](http://www.leviton.com).



**4999K-XLC**

**SECURE KEYED LC FIELD-INSTALLABLE CONNECTORS**

Description	Part No.
Secure Keyed LC Field-Installable Connector, 900 μm, MM/SM	4999K-xLC

**SECURE KEYED LC ACCESSORIES**

Description	Part No.
Extraction Tool w/ dust cap	ETR TN-xTL
Port Protection Plug w/ dust cap	PPRTN-xLG
Dust Cap (bag of 10)	DUSTK-CAP
Boots, 900 μm, Beige (for 62.5/125 μm MM, OM1), bag of 50	4999K-BGE
Boots, 900 μm, Black (for 50/125 μm MM, OM2), bag of 50	4999K-BLK
Boots, 900 μm, Aqua (for 50/125 μm LOMM, OM3/4), bag of 50	4999K-AQU
Boots, 900 μm, Blue (for Single-mode, OS1), bag of 50	4999K-BLU
Fast-Cure® Tool Kit	49800-FTK
Fiber Scope Adapter, std duplex LC configuration (use with Leviton 200x Scope)	49886-LCD

x = color: White (W), Yellow (Y), Orange (O), Red (R), Blue (L), Green (V), Slate (G), Black (E)



Extraction tool w/ dust cap

Port protection plug

