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 µm fiber. Connector shall engage with industry compliant LC duplex and quad adapters. 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.

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

FEATURES

- Patent-pending uni-body design prevent unauthorized and inadvertent MACs
- Duplex LC connector plugs into any industry complaint LC adapter or interface, unlike traditional keyed LC products
- Eight keyed connector colors 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 µm tight buffer cable
- 900 µm boot identifies fiber type (sold separately)
- Made in the United States
- Port Protection Plugs (sold separately) are used to lock out ports from unauthorized access or tampering

DESIGN CONSIDERATIONS

- Matching color extraction tool required to disengage assembly from adapter
- Boot color designates fiber type:
  - Beige for 62.5/125 µm Multimode (OM1)
  - Black for 50/125 µm Multimode (OM2)
  - Aqua for 50/125 µm 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)
- Keyed LC adapters are nonproprietary

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 Termperature:		-40 °C to +85 °C

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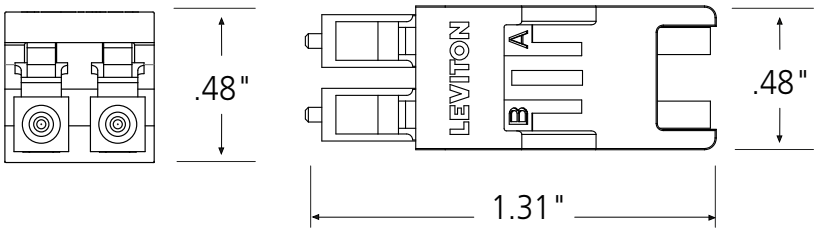
Released February 2012

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.leviton.com.

ELECTRONIC FILES

For CAD files, typical specs, or technical drawings (.DXF, .DWG, Visio), visit www.leviton.com.



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	ETRTN-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

B12 3997

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