LEVITON

Secure Keyed LC Fiber Patch Cords & Pigtails

APPLICATION

Secured Keyed LC fiber optic patch cords are used to interconnect or cross-connect fiber networks within a structured cabling system. Secure Keyed LC pigtails are used to support mechanical and fusion splicing for fiber cabling systems. Eight colors are available to segregate and secure networks from unauthorized and inadvertent moves/adds/changes. The patent-pending duplex LC unibody design prevents removal of connector by hand, and can only be removed with 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 Secure Keyed LC fiber optic patch cords and pigtails shall engage with industry compliant LC duplex and quad adapters. Patch cord connectors cannot be removed by hand: an extraction tool shall be used for removal, preventing unauthorized or accidental moves/adds/changes. Eight unique keyed 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. Polarity shall be A to B or A to A on patch cords and no polarity on pigtails. Patch cord and pigtails shall be in compliance with ANSI/TIA-568-C.3, ANSI/TIA-604-xx, and FOCIS-xx.

FEATURES

- Patent-pending unibody design prevents unauthorized and inadvertent MACs
- Duplex LC connector plugs into any industry-compliant LC adapter or interface, unlike traditional keyed LC solutions
- Eight colors are available to segregate and secure networks: white, yellow, orange, red, blue, green, slate, and black
- All connectors are heat cured and use ceramic ferrules for optimal performance
- All patch cords and pigtails are part of the Leviton custom-build make-to-order program
- Extraction tools (sold separately) allow for easy cable assembly removal with push-in/pull-out motion and are color-coded to match connector key type
- Port protection plugs (sold separately) are used to lock out ports from unauthorized access or tampering
- Custom dust caps are included with patch cords, extraction tools, and port protection plugs
- Made in the United States

DESIGN CONSIDERATIONS

- Extraction tool of same color required to disengage assembly from adapter
- To remove extraction tool from assembly, dust cap must be inserted back onto connector, promoting good fiber discipline
- Cable jacket (and boot color) designates fiber type:
    - 62.5/125 µm and 50/125 µm multimode is orange color (boot colors are beige and black, respectively)
    - 50/125 µm laser-optimized multimode is aqua color (boot color is aqua)
    - Single mode is yellow color (boot color is blue)
- Connector ferrules are zirconia ceramic
- 2-fiber 3 mm round cable jacket used on all patch cord configuration fiber types except on hybrid configurations
- 2-fiber 3 mm zip-cord used on hybrid patch cord configurations
- 2-fiber 900 µm tight-buffer fiber (in blue and orange color) on pigtail configuration
- Polarity option of A to B or A to A
- Keyed LC adapters are nonproprietary

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.3; Optical Fiber Cabling Components Standard
- ANSI/TIA-604-xx; Fiber Optic Connector Intermateability Standard
- GR-326; Generic Requirements for Single-mode Optical Connector and Jumper Assemblies
- Meets GR-1435 Generic Requirements for Multi-fiber Optical Connectors

Secure Keyed LC Fiber Patch Cords & Pigtails

Revised September 2014

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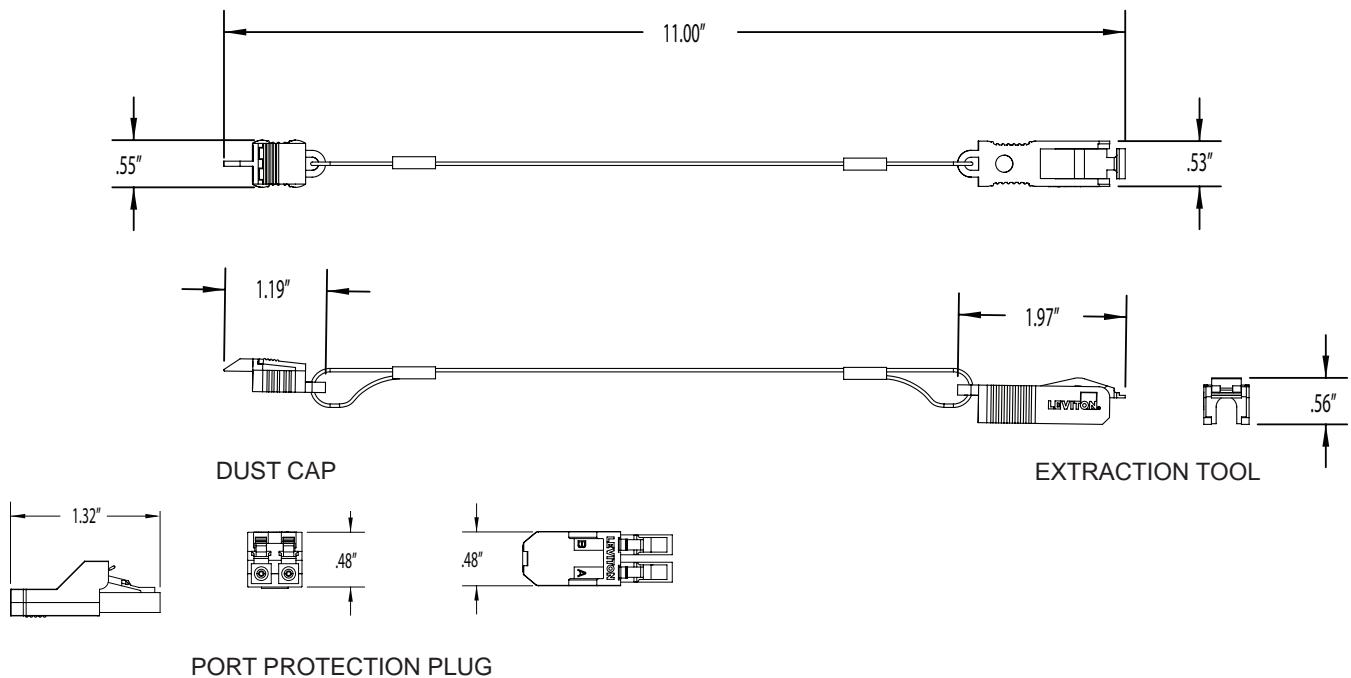
For a copy of Leviton product warranties, visit www.leviton.com.

ELECTRONIC FILES

For CAD files, typical specs, or dimensional line art (.DXF, .DWG, etc.), visit www.leviton.com.

PERFORMANCE SPECIFICATIONS — PATCH CORDS & PIGTAILS	
Insertion Loss – Single-mode	<0.5 dB Max., 0.2 dB Typical
Insertion Loss – Multimode	<0.5 dB Max., 0.3 dB Typical
Return Loss – Single-mode	> -50 dB
Return Loss – Multimode	> -25 dB

DUST CAP

EXTRACTION TOOL

PORT PROTECTION PLUG

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

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

Secure Keyed LC Fiber Patch Cords & Pigtails

Leviton Network Solutions
2222 - 222nd St. SE
Bothell, WA 98021-4416

tel 1-800-824-3005
tel +1-425-486-2222
appeng@leviton.com
www.leviton.com

Asia / Pacific
T +1.631.812.6228
E infoasean@leviton.com

Europe
T +33.6.8869.1380
E infoeurope@leviton.com

Canada
T +1.514.954.1840
E pcservice@leviton.com

India / SAARC
T +971.4.886.4722
E infoindia@leviton.com

Caribbean
T +1.954.593.1896
E infocaribbean@leviton.com

Mexico
T +52.55.5082.1040
E lsamarketing@leviton.com

China
T +852.2774.9876
E infochina@leviton.com

Middle East & Africa
T +971.4.886.4722
E lmeinfo@leviton.com

Colombia
T +57.1.743.6045
E infocolombia@leviton.com

South Korea
T +82.2.3273.9963
E infokorea@leviton.com

Revised September 2014

LEVITON

Make to order! | SECURE KEYED LC FIBER PATCH CORD OPTIONS

FIBER TYPE	CABLE TYPE	TERMINATION (FIRST END)	TERMINATION (SECOND END)	CABLE LENGTH (FEET)	POLARITY
• OM1 • OM2 • OM3 • OM4 (aqua) • OS2	• Duplex Riser Rated • Duplex Plenum Rated • Pigtail Riser Rated	• Keyed Duplex LC (unibody)	• Keyed Duplex LC (unibody) • Standard LC (Duplex Clips) • SC (Duplex Clips) • MU • MT-RJ • ST • FC • None (for Pigtail)	• 1-999	• A-A • A-B (Standard) • None

Make to order!
leviton.com/configurator

For assistance customizing your trunk cables, please visit leviton.com/configurator or call Tech Support at 800.824.3005.

Secure Keyed LC Fiber Patch Cords & Pigtails

ISO 9001 REGISTERED Quality Manufacturer

I14 5163

Leviton Network Solutions
2222 - 222nd St. SE
Bothell, WA 98021-4416

tel 1-800-824-3005
tel +1-425-486-2222
appeng@leviton.com
www.leviton.com

Asia / Pacific
T +1.631.812.6228
E infoasean@leviton.com

Canada
T +1.514.954.1840
E pcservice@leviton.com

Caribbean
T +1.954.593.1896
E infocaribbean@leviton.com

China
T +852.2774.9876
E infochina@leviton.com

Colombia
T +57.1.743.6045
E infocolombia@leviton.com

Europe
T +33.6.8869.1380
E infoeurope@leviton.com

India / SAARC
T +971.4.886.4722
E infoindia@leviton.com

Mexico
T +52.55.5082.1040
E lsamarketing@leviton.com

Middle East & Africa
T +971.4.886.4722
E lmeinfo@leviton.com

South Korea
T +82.2.3273.9963
E infokorea@leviton.com

Revised September 2014