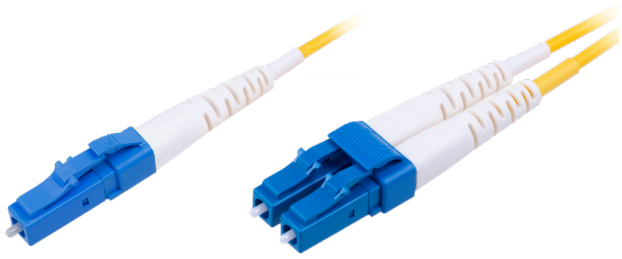
LC Fiber Connectors

APPLICATION

Leviton's simplex and duplex LC connectors are ideal for field termination using epoxy or anaerobic adhesives for faster terminations. Simplex connectors include one LC connector, one boot, a crimp ring (not included for 900-micron), and a dust cap. Duplex LC connectors include two simplex connectors, plus a duplexing clip. The combination of a ceramic ferrule and precision polymer housing provides consistent long-term mechanical and optical performance. Duplex connectors with duplexing clip ensure the correct polarity of fiber pairs during patching operations. Typical installations are in premise LAN environments or anywhere adhesive-style connectors are specified. These connectors are supported by FAST-CURE™ consumable termination materials and tools.



SPECIFICATION

Anaerobic adhesive-style fiber optic connector shall meet or exceed the requirements described in ANSI/TIA-568.3 and TIA-604-10, FOCIS-10 standards. All plastic components shall be molded of 94 V-0 rated plastic. The connector shall be field-polished, field-installable, and does not require a curing oven or proprietary tool to facilitate the termination of the fiber. The connector shall be available in single-mode or multimode configurations, simplex or duplex supporting 900 µm buffered fiber, or 2-3 mm jacketed fiber applications. Typical connector insertion loss shall be 0.2 dB for single-mode and multimode with connector return loss greater than > 26dB (multimode) and > 50 dB (single-mode).

FEATURES & BENEFITS

- Termination in less than 3 minutes using anaerobic adhesive
- Low insertion loss
- High repeatability and high thermal stability
- Dust protection caps included
- Precision zirconia ceramic ferrules
- 900 micron, 2.0 mm and 3.0 mm applications

STANDARDS & REGULATIONS

- ANSI/TIA-568.3
- TIA-604-10, FOCIS-10
- IEC 61753-1
- IEC 61754-20
- GR-326 or IEC 61300-2
- RoHS

MECHANICAL SPECIFICATIONS

Dimensions:	See page 2
Weight Simplex:	1.63 grams
Weight Duplex:	3.36 grams

PERFORMANCE SPECIFICATIONS

Single-mode:	≤ 0.25 dB, Typical 0.12 dB
Multimode:	≤ 0.25 dB, Typical 0.15 dB
Return Loss	
Single-mode:	> 50 dB
Multimode:	> 26 dB

Temp. (Operating): -20 ºC to +70 ºC (-4 ºF to +158 ºF)

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/warranty

FOCLSEPSMxxx, FOCLSEPMMxxx, FOCLCEPSMxxx, FOCLCEPMMxxx

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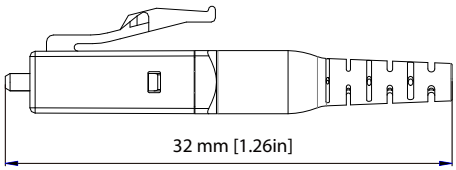
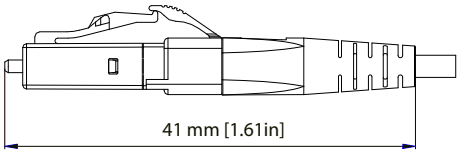
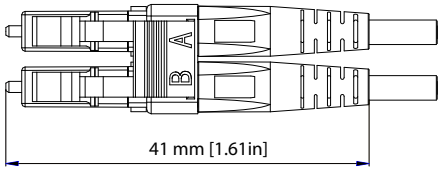


Simplex with boot for 900µm fiber



Simplex with boot for 2 mm/3 mm cable



Duplex with boot for 2 mm/3 mm cable

PART NUMBER

Description	Contents	Part No.
Single-mode, Simplex 2 mm Connector	2.0 mm white boot, blue body, heat shrink/crimp tube, dust cap	FOCLSEPSM001
Single-mode, Simplex 900µm Connector	900µm white boot, body blue, dust cap	FOCLSEPSM002
Multimode, Simplex, 2.0 mm Connector	2.0 mm white boot, beige body, heat shrink/crimp tube, dust cap	FOCLSEPMM001
Multimode, Simplex, 900µm connector	900µm white boot, beige body, dust cap	FOCLSEPMM002
Single-mode, Duplex, 2.0 mm Connector	2.0 mm white boot, blue body, blue duplex clip, heatshrink/crimp tube (2), dust cap (2)	FOCLCEPSM001
Multimode, Duplex, 2.0 mm Connector	2.0 mm boot white (2), beige body (2), beige duplex clip, heatshrink/crimp tube (2), dust cap (2)	FOCLCEPMM001
Multimode, Duplex, 3.0 mm Connector	3.0 mm white boot (2), beige body (2), beige duplex clip, heatshrink/crimp tube (2), crimp support (2), dust cap (2)	FOCLCEPMM003

Note: Hex Crimp Die: 3.25 mm

PART NUMBER — SUPPORTING TOOLS AND MATERIALS

Description	Part No.
FAST-CURE™ Tool Kit	49800-FTK
Universal Fiber Optic Consumable Kit	49800-CON

FAST-CURE Tool Kit: Designed for use with any single-mode or multimode field-installable anaerobic adhesives connector: LC, SC, or ST. The kit comes in its own compact, lightweight case, complete with an inspection scope, polishing pad, Standard 2.5 mm and LC 1.25 mm polishing tool, LC scope adapter, fiber optic crimp tool, safety glasses, scissors, jacket stripper, and music wire. Loctite 680 Hardener and Loctite 680 Primer Kit is sold separately.
Universal Consumables Kit: Contains everything you need to clean and polish single-mode and multimode connectors. The kit includes lint-free wipes, alcohol pads, piano wire, and 12-, 3- and 0.3-micron lapping film.

For further support information, visit Leviton.com/ns/support

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