

## FastCAM® Pre-Polished Connectors

### APPLICATION

FastCAM Connectors are pre-polished, field-installable connectors that eliminate the need for hand polishing, bonding, or epoxy in the field. FastCAM connectors are available in LC, SC, or ST, Single-mode or Multimode (standard 50/125µm, 62.5/125µm, and Laser Optimized 50/125µm) configurations terminated on 250 or 900µm buffered fiber and/or 2 or 3mm jacketed fiber. LC and SC connectors allow verification of optical continuity, by use of the visual fault locator (VFL). FastCAM Connectors are designed for premise environments, patch panels, and rapid repair/replacement requirements, as well as data centers and applications requiring fast network deployment.

### SPECIFICATION

The FastCAM mechanical fiber optic connector shall meet or exceed the requirements described in TIA 568C and 604 standards. Connector shall be pre-polished and field-installable to eliminate the need for hand polishing, bonding, or epoxy in the field. Connector shall be available in LC, SC or ST, Single-mode or Multimode (standard 50/125µm and 62.5/125µm, and Laser Optimized 50/125µm) configurations terminated on 250 or 900µm buffered fiber and/or 2 or 3mm jacketed fiber. Maximum connector insertion loss shall be no greater than 0.5dB, with an average of 0.1 dB for SC & LC and 0.2 dB for ST. Typical connector return loss shall be 35dB (multimode) and 56dB (single-mode). LC and SC versions shall allow continuity to be verified by use of a visual fault locator (VFL).

### FEATURES

- Precision mechanical termination
- Fast and easy to install in (less than one minute)
- No polishing, epoxy curing, consumables
- No proprietary tools
- Low insertion loss connection
- Uses proven molded v-groove technologies
- LC and SC versions allow optical continuity to be verified by use of a visual fault locator (VFL)

### DESIGN CONSIDERATIONS

- Single-mode and multimode versions
- Precision pre-radiused zirconia ferrules
- 900µm or 250µm buffered cable termination for SC, LC, & ST
- 2 or 3mm jacketed cable
- Physical contact (PC) polish for multimode



FastCAM SC Single-mode



FastCAM ST 62.5/125µm Multimode Connector



FastCAM LC, 50/125µm Multimode Connector

- Ultra physical contact (UPC) polish for single-mode
- Not recommended for outside plant applications/installations
- Leviton LYNX\* Cleaver and Fujikura CT-30A\* recommended for multimode and single-mode FastCAM connectors.
- Visual fault locator is recommended for use to verify the optical continuity of LC and SC versions of the FastCAM connector.

\*Alternative cleavers may be substituted if they achieve a guaranteed maximum cleaving angle of 2° for multimode fibers and 1° for single-mode fibers.

### Performance Specifications

Parameter	Value
Insertion Loss, LC & SC (Single-mode or Multimode)	Typical: 0.1 dB
Insertion Loss, ST (Single-mode or Multimode)	Typical: 0.2 dB
Return Loss (Single-mode)	Typical: 56 dB
Return Loss (Multimode)	Typical: 35 dB
Operating Temperature:	-40° C to +75° C

### STANDARDS COMPLIANCE

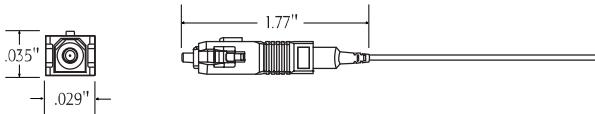
Meets TIA 568-C.3 performance requirements  
Meets TIA 604-2 (ST), -3 (SC), -10A (LC) Connector Intermateability Standards

### WARRANTY INFORMATION

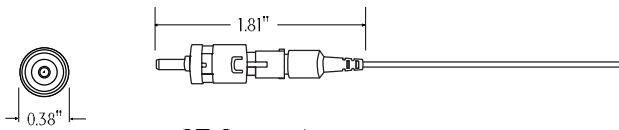
For a copy of Leviton product warranties, visit [www.leviton.com](http://www.leviton.com).

**ELECTRONIC FILES**

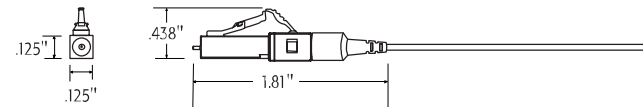
For CAD files, typical specs, or technical drawings (.DXF, .DWG), visit [www.leviton.com](http://www.leviton.com).



SC Connector



ST Connector



LC Connector

49991-XXX

Leviton FastCAM® Connectors	
Description	Part No.
FastCAM ST Multimode 62.5µm, beige	49991-MST
FastCAM ST Multimode 50µm, black	49991-5ST
FastCAM ST Single-mode, blue	49991-SST
FastCAM ST Multimode 50µm LO, aqua	Not Offered
FastCAM SC Multimode 62.5µm, beige	49991-MSC
FastCAM SC Multimode 50µm, black	49991-5SC
FastCAM SC Single-mode, blue	49991-SSC
FastCAM SC Multimode 50µm LO, aqua	49991-LSC
FastCAM LC Multimode 62.5µm, beige	49991-MLC
FastCAM LC Multimode 50µm, black	49991-5LC
FastCAM LC Single-mode, blue	49991-SLC
FastCAM LC Multimode 50µm LO, aqua	49991-LLC

Leviton FastCAM Installation Kits and Tools	
Description	Part No.
FastCAM Tool Kit w/ LYNX cleaver, work tray and gooseneck LED	49800-LAK
FastCAM Tool Kit w/ LYNX Cleaver	49800-MSK
FastCAM Tool Kit w/ CT30A Cleaver	49800-SMK
Visual Fault Locator (VFL)	49886-VFL
LYNX Cleaver	49886-LNX
Gooseneck LED (use with LYNX Cleaver)	49886-LGN
Work Tray (use with LYNX Cleaver)	49886-LNT
CT-30A Cleaver	49866-CTA

