

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. They are available in LC, SC, SC/APC, or ST, single-mode or multimode (OM1, OM3/4, or OS2) configurations. Connectors can be terminated on 250 µm or 900 µm buffered fiber and/or 2 or 3 mm jacketed fiber. All 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.



FASTCAM SC
OM3/4 Connector



FASTCAM SC/APC
OS2 Connector



FASTCAM LC
OM3/4 Connector



FASTCAM ST
OM1 Connector

SPECIFICATION

The FASTCAM mechanical fiber optic connector shall meet or exceed the requirements described in ANSI/TIA-568.3 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, SC/APC, or ST, single-mode or multimode (OM1, OM3/4, or OS2) configurations terminated on 250 or 900 µm buffered fiber and 2 or 3 mm jacketed fiber. Maximum connector insertion loss shall be no greater than 0.5 dB (0.6 dB for SC/APC), with an average of 0.1 dB (multimode) and 0.2 dB (single-mode or 0.3 dB for SC/APC). Typical connector return loss shall be 25 dB (multimode) and 55 dB (single-mode or 65 dB for SC/APC). All versions shall allow continuity to be verified by use of a visual fault locator (VFL).

COUNTRY OF ORIGIN

Mexico (LC, SC, ST)
Japan (SC/APC)

FEATURES & BENEFITS

- Precision mechanical splice termination
- Fast and easy to install (less than one minute)
- No polishing, epoxy curing, consumables
- No proprietary tools
- Low insertion-loss connection
- Uses proven, molded v-groove technologies
- Allows optical continuity to be verified by use of visual fault locator (VFL)
- Includes 900 µm, 2 mm, and 3 mm boots
- SC/APC has an internal angled cleave for optimal return loss performance

DESIGN CONSIDERATIONS

- Multimode and single-mode versions
- Precision, pre-radiused zirconia ferrules
- 900 µm or 250 µm buffered cable termination for SC, LC, and ST
- 2 mm or 3 mm jacketed cable
- Physical contact (PC) polish for multimode
- Ultra physical contact (UPC) polish for single-mode
- Angled physical contact (APC) polish for single-mode
- Not recommended for termination in outside plant applications/installations
- Precision cleavers are required for all FASTCAM connectors*
- LC, SC, and ST UPC connectors require a 0-degree cleave with a maximum angle of 2 degrees for multimode and 1 degree for single-mode fibers
- SC/APC connectors require a maximum cleaving angle of 8 degrees ± 1 degree
- Visual fault locator is recommended for use to verify the optical continuity of the FASTCAM connector

*Leviton High-Precision Flat Cleaver (49886-LNX) and High-Precision Angled Cleaver (49886-APC)

STANDARDS & REGULATIONS

- ANSI/TIA-568.3 performance requirements
- ANSI/TIA-604-2 (ST), -3 (SC), -10A (LC) Connector Interchangeability
- IEC 61300-2-44, Flexing of strain relief test: 5N, 50 cycles
- IEC 61300-2-2, Mating durability: 200 cycles
- IEC 61300-2-1, Vibration: 10Hz to 55Hz
- IEC 61300-2-18, Dry heat: 70° C for 96 hours
- IEC 61300-2-22, Temperature Cycle: -25° to 70° C for 12 cycles

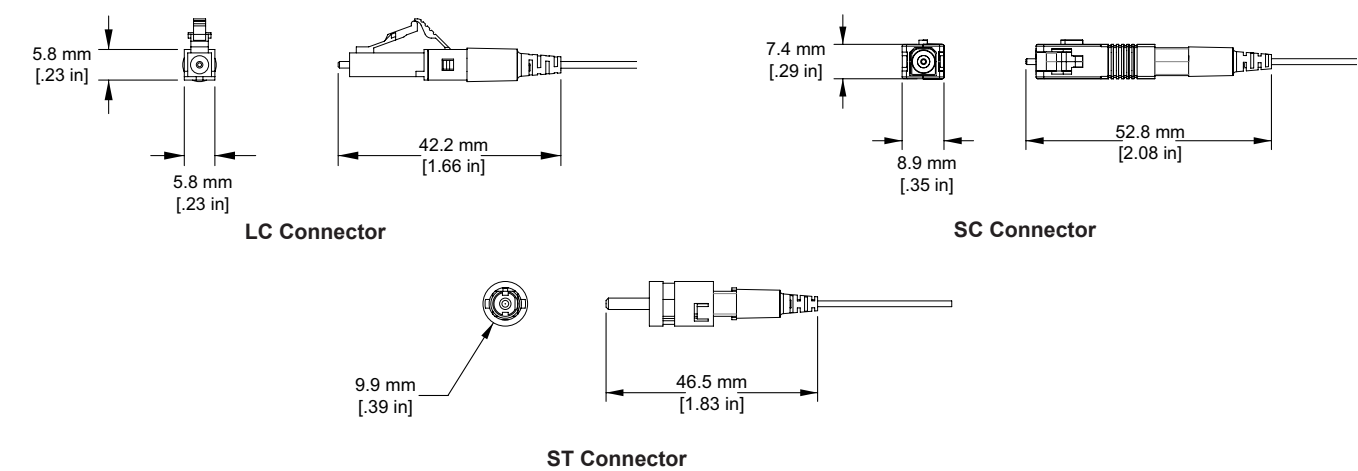
WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS

49991-XXX

49991-XXX



PERFORMANCE SPECIFICATIONS	
Parameter	Value
Insertion Loss (Multimode)	Typical: 0.1 dB; Max: 0.5 dB
Insertion Loss (Single-Mode)	Typical: 0.2 dB; Max: 0.5 dB
Insertion Loss (Single-Mode SC/APC)	Typical: 0.3 dB; Max: 0.6 dB
Return Loss (Multimode)	Typical: 25 dB
Return Loss (Single-Mode)	Typical: 55 dB
Return Loss (Single-Mode SC/APC)	Typical: 65 dB
Temp. (Operating)	-40 °C to +75 °C (-40 °F to +167 °F)

PART NUMBER - CONNECTORS	
Description	Part No.
FASTCAM™ LC OM1, beige	49991-MLC
FASTCAM LC OM3/4, aqua	49991-LLC
FASTCAM LC OS2, blue	49991-SLC
FASTCAM SC OM1, beige	49991-MSC
FASTCAM SC OM3/4, aqua	49991-LSC
FASTCAM SC OS2, blue	49991-SSC
FASTCAM SC/APC OS2, green	49991-ASC
FASTCAM ST OM1, beige	49991-MST
FASTCAM ST OM3/4, aqua	49991-LST
FASTCAM ST OS2, blue	49991-SST

PART NUMBER - KITS AND TOOLS	
Description	Part No.
FASTCAM Tool Kit w/ OPT-X™ Fiber Cleaver, work tray and gooseneck LED	49800-LAK
FASTCAM Tool Kit w/ OPT-X Fiber Cleaver	49800-MSK
Visual Fault Locator (VFL)	49886-VFL
OPT-X Fiber Cleaver	49886-LNX
Gooseneck LED (use with OPT-X Fiber Cleaver)	49886-LGN
Work Tray (use with Cleaver)	49886-LNT
APC Angled Cleaver	49886-APC

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