

## PRODUCT SPECIFICATIONS

499LC-xxx, 499SC-xxx, 499ST-xxx, 49886-SH1

# FASTSPLICE™ Fusion Splice-On Connectors

## APPLICATION

Leviton's FASTSPLICE Fusion Splice-On Connectors provide uncompromised optical and environmental performance in field installable LC, SC and ST connector types. They support the rapid construction and maintenance requirements of today's enterprise and data center applications, utilizing readily available fusion splicers. Used in combination with one-ended pre-terminated cable assemblies, the field installable fusion splice-on connectors offer the contractor the ability to install the pre-terminated end, and then cut the blunt end to length, providing flexibility and time savings. FASTSPLICE connectors are also suitable for most central office, MDU cabling, outside plant CATV and FTTx applications.



## SPECIFICATION

FASTSPLICE fusion splice-on fiber optic connectors shall meet or exceed the requirements described in ANSI/TIA-568-3.E and 604 physical standards. All plastic components shall be molded of 94 V-0 rated plastic. The connectors shall be factory-polished and field installable. Connectors shall be available in LC, SC, and ST single-mode and multimode configurations. Maximum insertion loss shall be = 0.25 dB per connector, and return loss shall be  $\geq 65$  dB for single-mode APC connectors,  $\geq 55$  dB for single-mode UPC connectors, and  $\geq 30$  dB for multimode PC connectors.

## FEATURES

- Factory polished and field installable
- Compatible with most common fusion splicers including AFL/Fujikura, Sumitomo, Fitel, and UCL Swift (UCL Swift holder PN F-20/30 required)
- Connectors support 900 micron buffered fiber or 250 micron coated fiber with appropriate fanout kit or furcation tubing
- Connectors sold in packs of 12
- Connectors built with precision manufactured zirconia ferrules
- Individual connectors are in reclosable clamshells with part identification and strip template
- LC connectors can be joined using optional duplex clips, Leviton part number 49991-CLP
- The Leviton FASTSPLICE Tool Kit includes tools to access and strip common fiber cable constructions, and also several accessories specific to fusion splicing (see FASTSPLICE Tool Kit 49800-SOC specification for details)
- Each FASTSPLICE Universal Ferrule Holder (sold separately, 49886-SH1) supports up to 100 or more splice-on connector terminations

## STANDARDS & REGULATIONS

- TIA-568.3-E
- RoHS 2 per 2011/65/eu, UL 94 VO Rating
- LC Type: IEC 61754-20, EIA/TIA-604-10, FOCIS-10
- SC Type: IEC 61754-4, EIA/TIA-604-3, FOCIS-3
- ST Type: IEC 61754-2, EIA/TIA-604-2 FOCIS-2

## COUNTRY OF ORIGIN

Mexico

## WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/NS/Warranty](https://www.leviton.com/NS/Warranty)

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| PHYSICAL SPECIFICATIONS      |                              |
|------------------------------|------------------------------|
| Parameter                    | Value                        |
| Insertion Loss (Multimode)   | Max: 0.25 dB*                |
| Insertion Loss (Single-Mode) | Max: 0.25 dB*                |
| Return Loss (Multimode)      | ≥ 30 dB (PC)                 |
| Return Loss (Single-Mode)    | ≥ 65 dB (APC), ≥ 55 dB (UPC) |
| Operating Temperature:       | -40 °C to +75 °C             |
| LC and SC Polish:            | SM APC and UPC, MM PC        |
| ST Polish:                   | SM UPC, MM PC                |

\*Insertion loss value is influenced by handling, cleanliness and quality of splice.

| FASTSPlice™ FUSION SPLICE ON CONNECTORS     |           |
|---------------------------------------------|-----------|
| Description                                 | Part No.  |
| 900 µm 12-Pack                              |           |
| LC SM APC OS2 Green 900 µm                  | 499LC-GN9 |
| LC SM OS2 Blue 900 µm                       | 499LC-BL9 |
| LC MM OM1 Beige 900 µm                      | 499LC-BG9 |
| LC MM OM3/4 Aqua 900 µm                     | 499LC-AQ9 |
| SC SM APC OS2 Green 900 µm                  | 499SC-GN9 |
| SC SM OS2 Blue 900 µm                       | 499SC-BL9 |
| SC MM OM1 Beige 900 µm                      | 499SC-BG9 |
| SC MM OM3/4 Aqua 900 µm                     | 499SC-AQ9 |
| ST SM OS2 Blue 900 µm                       | 499ST-BL9 |
| ST MM OM1 Beige 900 µm                      | 499ST-BG9 |
| ST MM OM3/4 Aqua 900 µm                     | 499ST-AQ9 |
| Universal LC/ST/SC Ferrule Holder, 10-pack* | 49886-SH1 |
| LC Duplex Clip, pack of 6, clear            | 49991-CLP |
| FASTPLICE Tool Kit                          | 49800-SOC |

\*For a list of compatible splicers, visit [Leviton.com/FASTSPlice](https://leviton.com/FASTSPlice)

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For further support information, visit [Leviton.com/NS/Support](https://leviton.com/NS/Support)