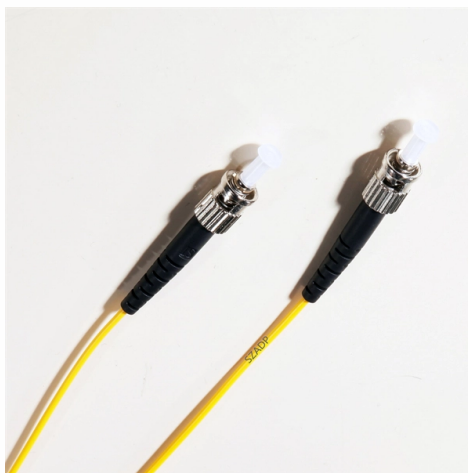


# RIVO MULTITRADE OPTICAL SYSTEMS

## Fusion splicers and fiber optic connectors



### Overview

FASTSPLICE™ Fusion Splice-On Fiber Connectors Leviton offers a full range of fusion fiber splicing solutions, including fiber splice modules in our popular.

### Key Takeaways

Fiber optic connectors and fusion splicers are essential tools for creating reliable, low-loss optical connections in modern fiber networks. Fiber Optic Connectors

Fiber optic connectors are devices used to terminate the end of an optical fiber and enable quick, precise connections to other fibers or network equipment. Common types include LC, SC, and ST connectors, each differing in size, locking mechanism, and application suitability. Splice-on connectors, such as FASTSPLICE, allow fibers to be terminated directly onto connectors using a fusion splicer, providing a complete fiber channel solution with minimal signal loss. These connectors are widely used in FTTH, data centers, and enterprise networks.

### Fusion Splicers

A fusion splicer is a precision tool that joins two optical fibers end-to-end by fusing them with an electric arc, creating a joint with the lowest possible optical loss and reflectance. Fusion splicing is the preferred method for singlemode fibers and is also used for multimode fibers, though alignment can be more challenging due to core differences. Modern splicers often feature core alignment, automated calibration, and ribbon splicing capabilities, improving speed, accuracy, and ergonomics for technicians. Leading models include Fujikura 90S+, INNO View 8+, and Sumitomo Type-72C+, each suited for different environments and project requirements.

## How They Work Together

Splice-on connectors combine the benefits of connectors and fusion splicing. The fiber is first cleaved precisely using a fiber cleaver, then fused into the connector using a compatible fusion splicer . This method ensures a high-quality, durable connection while reducing installation time and the need for pre-terminated cables. Fusion splicers from manufacturers like AFL and UCL Swift NA offer integrated solutions that include cleaving, stripping, splicing, and protection, streamlining the process for field technicians .

### Practical Considerations

- Training and practice are essential for reliable splicing and connector termination .
- Equipment compatibility: Ensure connectors match the splicer model and fiber type .
- Maintenance: Regular cleaning, electrode replacement, and calibration maintain splicer performance .
- Applications: Ideal for FTTH, data centers, campus networks, and industrial installations, where low-loss, high-reliability connections are critical . By combining splice-on connectors with fusion splicing, technicians can achieve efficient, high-performance fiber optic networks with minimal signal degradation and long-term reliability.

## Article Content

FASTSPLICE™ Fusion Splice-On Fiber Connectors

Leviton offers a full range of fusion fiber splicing solutions, including fiber splice modules in our popular HDX and SDX fiber optic

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The FOA Reference For Fiber Optics

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