

Fiber Optic Fusion Splicer Selection Guide



Overview

Fusion Splicer Buyer's Guide 2026 | Heather TechLearn how to choose the right fusion splicer for your fiber optic installs in 2026. Expert tips and compari.

Key Takeaways

Top recommended fiber optic fusion splicers include the Fujikura FSM-90S+, INNO View 8+, and Sumitomo Type-72C+, each excelling in precision, speed, and reliability for professional fiber installations. Key Considerations for Choosing a Fusion Splicer

When selecting a fusion splicer, consider the following factors:

- **Alignment Method:** Core-alignment splicers provide the highest precision by aligning fiber cores, ideal for long-distance or high-bandwidth applications. Cladding-alignment splicers are faster and more affordable, suitable for routine installations or access networks .
- **Splice Speed and Heating Time:** Modern splicers typically achieve splice cycles in 5-8 seconds with heating times of 8-10 seconds. For example, the Fujikura 90S+ offers a 7-second splice time and 9-second heat time, optimizing field efficiency .
- **Fiber Type:** Single fiber splicers are ideal for low-volume or repair work, while ribbon splicers can fuse multiple fibers simultaneously, significantly reducing installation time in high-density environments .
- **Durability and Portability:** Ruggedized splicers with dust and drop resistance are essential for fieldwork. Battery life and portability are critical for large-scale or remote projects .

- Ease of Use: Features like touchscreen interfaces, automated programs, and fiber discrimination functions reduce errors and learning curves .

- Splice Loss: Look for splicers with low typical splice loss (0.02–0.05 dB) to ensure high-quality connections, especially for FTTH or backbone networks .

Top Recommended Models

- Fujikura FSM-90S+
- Core-alignment splicer with high-precision lenses
- Low splice loss (~0.02 dB)
- Automatic fiber discrimination for G.652, G.657, and multimode fibers
- Fast splice and heat times, ideal for backbone and high-volume projects
- INNO View 8+
- Core-alignment splicer with intuitive touchscreen interface
- Suitable for both single and ribbon fibers
- Lightweight and portable, optimized for field FTTH installations
- Sumitomo Type-72C+
- Reliable core-alignment splicer with robust design
- Efficient for high-density splicing in data centers or metro networks
- Offers automated calibration and low splice loss performance
- KOMSHINE FX39 / EX39 Mini
- Budget-friendly options for FTTH or small-scale projects
- Compact and portable with reasonable splice quality
- Suitable for technicians starting in fiber splicing

Maintenance and Best Practices

- Regularly replace electrodes and clean blades to maintain splice quality .
- Use anti-static wrist straps or mats to prevent static damage to splicer electronics .
- Clean fiber ends thoroughly with lint-free wipes and isopropyl alcohol before splicing .
- Inspect cleaved fiber ends under a microscope or splicer camera to ensure minimal contamination . By selecting a splicer that matches your project type, fiber format, and operational environment, you can achieve reliable, low-loss splices, improve efficiency, and reduce downtime in fiber optic network deployments.

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The fusion splicer is used for splicing two optical fibers end-to-end by fusion. It is an

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VHO-Splice-fusion

Before starting use of the splicer, it is important to understand the keyboard controls: Set - starts or continues the programmed splice

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