

List of Fiber Optic Fusion Splicing Equipment and Materials

Article Overview

Essential fiber optic fusion splicing equipment includes fusion splicers, cleavers, protection sleeves, stripping and cleaning tools, inspection devices, and related accessories.

Core Fusion Splicing Equipment

- o **Fusion Splicers:** Devices that join two optical fibers end-to-end using precise thermal fusion. Popular models include Fujikura 90S+, INNO View 8+, and Sumitomo Type-72C+, offering features like core alignment, fast splice times, and automated calibration for single-fiber or ribbon fiber splicing .
- o **Fiber Cleavers:** Tools for producing precise, perpendicular fiber cuts. Single-fiber cleavers are suitable for repairs, while ribbon cleavers allow multiple fibers to be cleaved simultaneously .
- o **Stripping Tools:** Multi-hole strippers calibrated for 250um bare fibers or 900um coated fibers, provided by brands like Jonard, Fujikura, and INNO, ensure safe removal of fiber coatings without damaging the glass core .

Protection and Handling Materials

- o **Fusion-Protection Sleeves:** Heat-shrink or mechanical sleeves that protect the splice point and maintain mechanical strength .
- o **Splice-On Connectors:** Pre-terminated connectors for 900um or 3.0mm fibers, including accessories for installation .
- o **Mechanical Splices:** Alternative to fusion splicing for temporary or low-loss connections .

Cleaning and Inspection Tools

- o **Fiber Cleaning Tools:** Lint-free wipes, 99%+ isopropyl alcohol, fiber cleaning pens, and optical-grade cleaning fluids to remove dust, oil, or gel residues .
- o **Inspection Microscopes and Cameras:** Visual inspection systems, low-power microscopes, or built-in splicer cameras to verify cleave quality and cleanliness .
- o **Fiber Cleave Analyzers:** Interferometric devices for precise measurement of cleaved fiber end faces .

Auxiliary Equipment and Accessories

- o **Recoating and Proof Testing Tools:** For restoring fiber coating and testing splice strength .
- o **Laser Cutters and Epoxy Curing Ovens:** Used in connector preparation and fiber shaping .
- o **Enclosures and Splice Trays:** Wall-mount or rack-mount enclosures, splice trays, and MPO breakout cassettes for organized fiber management .



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o OTDRs and Test Equipment: Optical Time Domain Reflectometers, power meters, light sources, and visual fault locators for testing splice quality and network performance .

Recommended Brands and Suppliers

- o Thorlabs (Vytran(R)): Fusion splicers, cleavers, fiber processors, and inspection systems .
- o Fiber Optic Center: Equipment from Corning, AFL, Sumitomo, 3M, 3SAE, Fitel .
- o Amerifiber: Top-rated fusion splicers and ribbon splicing solutions .
- o Fiber Instrument Sales: Comprehensive splicing kits, accessories, and enclosures .

This list covers the full spectrum of fiber optic fusion splicing equipment and materials, from core splicing devices to cleaning, inspection, and protective accessories, suitable for professional installations, maintenance, and high-density network environments.

Fiber Optic Center has fiber optic splicing equipment, including splicers, cleavers, protection sleeves, mechanical splicing tools and

Splicing of optical fibers is a technique used to join two optical fibers. This technique is used in optical fiber communication, in order

Selecting the right fiber optic splicing tools and kits can be challenging for many fibre optic engineers and installers.

This lab is designed to introduce the student to the theory and practice of fusion splicing fiber optics. The student will learn what a

Fusion splicing of fibers is a technique of making low-loss fiber joints by fusing fiber endfaces together. It is

This article covers two of the basic methods of splicing fiber optic cables- fusion and

We offer a range of equipment necessary for splice various special optical fibers, including polarization-maintaining fibers such as

Fiber Optic Installers Checklist for Tools, Test Equipment & Supplies Before buying your equipment - questions to consider: ü What

Looking to understand fiber splicing? It's the process of joining two fiber optic cables using techniques such as fusion

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Our selection of fusion splicing tools includes fiber arrangement and assembly tools, thermal strippers, ribbonizing tools, workstation

Most contractors own termination equipment for multimode fiber as it is still used on premises (indoor) jobs. Generally contractors

The 900µm Splice-on-Connector Tool-Kit from AFL is the solution for those looking for 900µm fiber splicing using splice on connectors.

We distribute fiber optic splicing equipment from Corning, AFL, Sumitomo, 3M, 3SAE, Fitel and more.

How fiber optic splicers work, types, what they are used for. Steps to use this equipment and including how to test your

Splicing in optical fiber is the joining two fiber optic cables together. There are 2 methods of cable splicing, mechanical

International distributor for fiber optic components, equipment and accessories while providing invaluable technical consultation and

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