

Optical cable stripping device



Overview

Optical Fiber Strippers Our range of optical fiber strippers extends from handy, pocket-sized tools to fully Fiber Strippers – tools, mechanical, thermal.

Key Takeaways

Optical cable stripping requires specialized fiber strippers and careful procedures to remove coatings without damaging the glass core, ensuring reliable splicing and connectorization.

Types of Fiber Strippers

Mechanical Strippers: These are precision hand tools designed to remove polymer coatings from optical fibers, typically 250 μm or 900 μm in diameter, down to the 125 μm glass cladding. They feature laser-drilled or precision-ground holes to prevent nicking the fiber and are suitable for standard telecommunication fibers and specialty fibers with thinner coatings. **Thermal Strippers:** These tools use controlled heat to soften the fiber coating, allowing gentle removal without mechanical stress.

Adjustable temperature and timing settings ensure compatibility with different coating materials and fiber diameters, making them ideal for high-strength splices.

Automated and Plasma-

Assisted Strippers: Fully automated devices can perform end stripping or window stripping without contact, using plasma or other non-contact methods. These systems are highly consistent, reduce operator error, and can handle large-diameter fibers or fiber ribbons up to 1200 μm .

Cable-

Specific Strippers: For multi-layer cables, specialized tools like armored cable slitters or buffer tube strippers allow longitudinal or circumferential cuts of outer jackets, aramid yarn, and buffer tubes. Adjustable blades ensure the fiber is not nicked during stripping. **Stripping Procedures**
Layer-by-Layer Stripping: Multi-layer cables must be stripped progressively.

Start with the outer jacket, then remove aramid yarn, followed by the buffer coating. Each layer requires careful handling to avoid damaging underlying fibers. **Proper Tool Selection:** Choose a stripper compatible with the fiber diameter and coating type.

For single-fiber cables, hand strippers or heated tools may suffice, while automated systems are preferred for high-volume or precision applications. **Clean and Straight Cuts:** Ensure the stripped fiber ends are straight and free of jagged edges. Worn blades or improper technique can create nicks or scratches, which may lead to cracks under stress or thermal cycling, compromising signal integrity.

Maintenance: Regularly maintain and sharpen stripping tools to preserve precision and prevent accidental fiber damage. **Special Considerations:** For “window strip” operations, remove a short section of coating from the middle of the fiber for applications like fiber Bragg gratings. Automated or thermal strippers are particularly effective for these tasks.

Best Practices

Avoid using generic wire strippers or knives, as they can damage the fiber core. Verify the stripped length matches the requirements for splicing or connectorization. Use protective eyewear and follow safety protocols when handling fibers and tools.

For high-strength splices, ensure the fiber maintains tensile strength above 20 N after stripping. By selecting the appropriate tool and following careful, layer-specific procedures, technicians can achieve clean, nick-free fiber ends, ensuring optimal performance and long-term reliability of optical networks.

Article Content

Optical Fiber Strippers

Our range of optical fiber strippers extends from handy, pocket-sized tools to fully

Fiber Strippers – tools, mechanical, thermal, chemical,

Fiber strippers are precision tools that reliably and cleanly remove a defined length of coating (often 30–40 mm) from a fiber end so that the bare glass is exposed

Fiber Optic Cable Cutting Machines Stripper Tools

The Cable Cutting Machines & Stripper Tools category features a comprehensive selection of manual, semi-automatic, and fully-automated fiber cable tools designed for precision cutting and stripping of

Fiber Cable Stripping Machines

Fiber Cable Stripping Machines are devices used to remove the outer jacket of fiber optic cables. These machines are commonly used in the manufacturing and maintenance of fiber optic cables to expose

Fiber Stripping Tools

Jonard Tools manufactures a large range of fiber optic stripping tools specifically designed for technicians in the fiber optics industry.

Fiber Stripper

Fiber strippers and other fiber optic stripping tools with which you prepare your fibers for splicing. Thermal strippers with adjustable temperature and time settings.

Fiber Optic Termination Tools

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an optical fiber in preparation for connectorization. A fiber guide

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Signal fire Fiber Optic Stripper, 9 in 1 Fiber Optic Stripper Tool, Wire Cutters Pliers Electrician Tools for Wire Stripping Cutting & Cleaning, Fiber Cable Stripping Tool for Technicians 50+ bought in past

Optical Fiber Strippers

Our range of optical fiber strippers extends from handy, pocket-sized tools to fully automated plasma-assisted stripping machines. In addition to a wide range of

Fiber and Cable Stripper – Types, Uses & Guide

Fiber & Cable Stripper for Fiber Tools 1. FOS03 Fiber strippers remove the coating from the fiber optic cable to expose the glass fiber. Also

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Precision Strip Tool AFL's Precision Strip Tool is a fast, simple solution for stripping fiber without damage. This battery-powered, handheld stripper features an

Fiber Strippers – tools, mechanical, thermal, chemical,

Safer mechanical or non-contact alternatives are preferred today. Automated Stripping Systems For high-volume manufacturing environments, such as the

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Fiber Cable Strippers

Fiber-Life offers a variety of fiber strippers, each designed to play a crucial role in the fiber optic cable splicing process. A high-quality fiber cable stripper safely and

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Fiber-Optic Tools | McMaster-Carr

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