

Article Overview

Optical cable stripping involves removing the protective coatings or jackets from fiber optic cables using precision tools to expose the bare glass without damaging it.

Overview of Fiber Stripping

Optical fibers are coated with polymers such as acrylate, silicone, or polyimide to protect the glass core. Stripping these coatings is essential for splicing, connectorization, or other fiber processing tasks. The goal is to expose the bare fiber while avoiding scratches or nicks that could compromise performance. Typical coated fiber diameters are around 250 μm , with the glass cladding at 125 μm , though specialty fibers may have thinner coatings or larger jackets.

Types of Fiber Strippers

- o Mechanical Handheld Strippers: Use precision blades to remove coatings or buffers. They are color-coded for different fiber diameters and often include fiber guides to ensure proper alignment.
- o Thermo-Mechanical Strippers: Apply heat to soften the coating before removal, reducing the risk of fiber damage.
- o Non-Contact Methods: Include hot air or laser ablation for delicate or specialty fibers, often used in automated systems.
- o Chemical Stripping: Uses solvents or acids to dissolve coatings, typically in laboratory or high-precision applications.

Semi-Automatic and Automated Stripping

For high-volume or precise applications, semi-automatic machines like the FiberOptic 7010 or FiberStrip 7030 can strip coatings, buffers, and jackets with consistent lengths and minimal manual effort. Automated systems, such as the AutoStrip II, can perform mid-span window stripping with chemical-free methods, adjustable strip lengths, and high cleanliness, suitable for fibers with coatings up to 1,000 μm .

Practical Considerations

- o Strip Length: Typically 30-40 mm for end preparation, but window stripping can vary from 2 to 150 mm.
- o Fiber Diameter: Ensure the stripper matches the fiber's cladding and coating diameter to avoid damage.
- o Buffer and Jacket Removal: Some tools handle tight buffers (900 μm) or larger cable jackets (up to 3.5 mm) for complete cable preparation.
- o Handling: Use grippers or guides to hold the fiber securely; avoid wrapping or clamping the fiber directly to prevent microfractures.

Strip Optical Cable Stripper

Summary

Optical cable stripping is a critical step in fiber optic preparation. Choosing the right tool--manual, semi-automatic, or automated--depends on fiber type, coating thickness, and production volume. Proper stripping ensures clean, undamaged fibers ready for splicing, connectorization, or other optical applications, improving performance and reliability .

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing.

Achieve precise stripping of fibre optic cables with the Fibre Optical Precision Stripping Tool. Ideal for

Fiber-Optic Cable Strippers Strip fiber-optic cables without scratching or damaging them. These cable strippers have three

3-hole fiber optic cable stripper--precisely strips cable jacket, buffer, and coating. Angled jaw, carbon steel

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to

Precision Strip Tool AFL's Precision Strip Tool is a fast, simple solution for stripping fiber without damage.

The Cable Cutting Machines & Stripper Tools category features a comprehensive selection of manual, semi-automatic, and

Also known as optical fiber cable strippers, they hold cable within a slot, squeeze their jaws

Achieve clean, damage-free strips every time with our professional Fiber Optic Cable Strippers and Wire Stripping Pliers. Featuring

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an

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

A high-quality fiber cable stripper safely and efficiently removes the outer jacket from an optical fiber cable

Choose from our selection of fiber-optic strippers in a wide range of styles and sizes. Same and Next Day Delivery.

FTS-01 is an optical fiber stripper for stripping 3.0*2.0mm butterfly-shaped drop cable. It adopts a one-time



Strip Optical Cable Stripper

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The FOS03Y Fiber Optic Stripper is engineered for field technicians and fiber optic installers

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