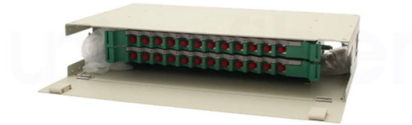


The function of fiber optic cable stripper



AI Overview

A fiber optic cable stripper is a precision tool used to remove protective coatings from optical fibers without damaging the delicate glass core. A fiber optic cable stripper is specifically designed to remove the polymer coatings and jackets from optical fibers, exposing the bare glass for tasks such as splicing, connector termination, or in-line splicing. Unlike standard wire strippers used for copper cables, fiber strippers must operate with micron-level precision to avoid nicking or scratching the fiber, which could lead to signal loss or connection failure.

Structure and Function

Optical fibers typically have multiple layers: an outer jacket, strength members (like aramid yarn), a buffer coating, and the acrylate coating directly protecting the glass core. Fiber strippers are engineered to remove these coatings cleanly, often from diameters of 250 μm or 900 μm down to the 125 μm glass cladding. The tool usually has high-precision cavities or slots sized for different layers, allowing the user to strip the outer jacket, primary coating, or secondary coating without damaging the fiber.

Types of Fiber Strippers

- Mechanical handheld strippers:** Use sharp blades to cut and remove coatings manually.
- Thermo-mechanical strippers:** Apply heat to soften the coating before removal, reducing the risk of fiber damage.
- Non-contact methods:** Include hot air or laser ablation for specialized applications.
- Chemical strippers:** Use solvents or acids to dissolve coatings in controlled environments.

Usage and Safety

Proper use involves holding the fiber in the correct slot, squeezing the jaws to cut through the coating, and sliding the coating off. Because fiber optic preparation involves very fine materials, safety precautions such as wearing safety glasses and using a labeled sharps container are recommended. In summary, a fiber optic cable stripper is an essential tool for precision fiber preparation, ensuring that the glass core is exposed safely and accurately for high-quality optical connections.

Article Content

trueCABLE's Fiber Optic Cable Strippers: The Essential

The purpose of fiber optic cable strippers is to remove any plastic protective coatings from the fiber optical strand assembly prior to cleaving,

Fiber Cable Stripping Tools: A Comprehensive Guide

These cables have fibers that are loosely contained within a protective tube filled with gel or other compounds. These strippers often feature a blade that scores the tube, allowing for easy removal

Stripping (fiber)

Fiber optical stripping can be done using a special stripping and preparation unit that uses hot sulfuric acid or a controlled flow of hot air to remove the coating. There are also mechanical tools used for

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Fiber and Cable Stripper – Types, Uses & Guide

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Budco is a stocking distribution company for broadband tools, fiber optic tools and coax cable tools. Since 1970, Budco has provide cable construction tools, cable

The Role And Importance Of Fiber Optic Strippers-

A fiber optic stripper is a specialized tool employed for the removal of protective coatings surrounding optical fibers to facilitate splicing, termination, or connectorization processes.

The Ultimate Optical Fiber Stripper Guide

At its core, an optical fiber stripper is a specialized tool engineered to precisely remove the protective polymer coatings from an optical fiber without

Flyriver: Fiber Optic Strippers: A Comprehensive Guide

Fiber optic strippers are essential tools in the field of fiber optics, used to remove the protective coatings from optical fibers without damaging the delicate glass core.

Fiber Stripper

Fiber optic stripper is a typical used tool in the fiber cable termination work for better stripping. In general, fiber optic stripper can be divided into two type depending

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The FOA Reference For Fiber Optics

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The Ultimate Optical Fiber Stripper Guide

An Optical Fiber Stripper is arguably the most fundamental hand tool for any technician working with fiber optic networks. In an industry where

Fiber Strippers – tools, mechanical, thermal, chemical, plasma,

A fiber stripper is a precision tool used to remove the protective polymer fiber coatings from an optical fiber. This process exposes the bare glass without scratching or nicking it, which is required for tasks

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