

Function of Optical Fiber Stripper



Overview

The Ultimate Optical Fiber Stripper Guide At its core, an optical fiber stripper is a specialized tool engineered to precisely remove the protective polyme.

Key Takeaways

An optical fiber stripper is used to carefully remove the protective coatings from a fiber optic cable, exposing the bare glass core without causing damage.

Understanding the Tool

An optical fiber stripper is a precision tool designed to remove the buffer and acrylate coatings from optical fibers, typically reducing a 250µm or 900µm coating down to the 125µm glass cladding. Professional-grade strippers have multiple notches or holes calibrated for different coating layers: a large notch for the outer jacket, a middle notch for the tight buffer, and a small notch for the acrylate coating. Using the correct notch prevents nicks, scratches, or stress fractures that can degrade signal quality and cause connection failure.

Step-by-

Step Usage

Safety First: Always wear safety glasses and handle fiber scraps carefully, disposing of them in a designated container. Prepare the Cable: Cut the fiber optic cable to the desired length using kevlar scissors. If the cable has aramid yarn (Kevlar) strength members, cut them separately to expose the fiber.



Strip the Outer Jacket: Use the largest groove on the fiber stripper to gently cut and remove the outer jacket. Hold the stripper at a 45-degree angle to reduce stress on the fiber. **Remove the Buffer Coating:** For a 900µm tight buffer, use the middle notch of the stripper.

Strip in small increments (about 6–8mm at a time) to avoid breaking the fiber. For a 250µm coating, use the smallest notch, again taking small cuts. **Clean the Fiber:** After stripping, clean the exposed fiber with a lint-free wipe and alcohol to remove any residue.

Cut Aramid Fibers: Use kevlar scissors to trim the aramid fibers close to the jacket end, bundling them for easier handling. **Inspect the Fiber:** Ensure the glass core is free of nicks or scratches before proceeding to splicing or connectorization.

Tips and Best Practices

Take small, controlled cuts rather than trying to remove too much coating at once. Use a spring-loaded stripper with a safety lock and adjustable stopper for consistent results. Practice on spare fibers to develop a steady hand and proper angle, especially if you are left-handed, as most strippers are designed for right-handed use.

For midspan stripping or specialized applications, consider strippers with helical cutting action or thermo-mechanical options that soften the coating before removal. By following these steps and using the correct notch for each coating layer, you can safely strip optical fibers, preserving the integrity of the glass core and ensuring reliable network performance.

Article Content

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

Fiber Strippers – tools, mechanical, thermal, chemical,

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

Fiber and Cable Stripper – Types, Uses & Guide

FOS03 Fiber strippers remove the coating from the fiber optic cable to expose the glass fiber. Also known as optical fiber cable strippers, they hold

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

Fiber Stripper

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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.

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

A good quality cable wire stripper will safely and efficiently remove the outside jacket from an optical fiber cable or cable wire so that it helps you speed up the process

Tutorial Passive Fiber Optics, Part 13: Fiber Accessories and Tools

When starting with a fiber cable, one first has to cut into the polymer jacket with the stripper tool and pull the end part of the jacket away. The tool can then also be used to strip off the polymer buffer from the

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Stripping (fiber)

Stripping is the act of removing the protective polymer coating around optical fiber in preparation for fusion splicing. The splicing process begins by preparing both fiber ends for fusion, which requires

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,

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing. There are mechanical, thermal and non-contact

The Finesse of Fiber Optic Strippers | SDM Magazine

The problem is that fiber optic strands are extremely small, with the typical diameter of an unstripped fiber being 250 microns, or millionths of a meter. The stripping of a fiber strand is

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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