Optical Fiber Stripper



Overview

A fiber stripper is a precision tool used to remove the protective polymer fiber coatings from an optical fiber.

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.

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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

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 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. Automatic fiber stripping units for

Fiber Stripping Tools

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

Fiber Optic Termination Tools

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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

The Ultimate Optical Fiber Stripper Guide

What is an Optical Fiber Stripper and Why Is It Essential? At its core, an optical fiber stripper is a specialized tool engineered to precisely remove the

AFL Precision Strip Tool: Fast, Simple, and Accurate F

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

Fiber Optic Strippers | Fiber Termination Tools

Both regular and loose tube fiber cables can be removed with this easy-to-use tool. These fiber optic stripping tools are factory set so there is no need for adjustment

Miller® FO 103-S Series

FO 103-S Series 1 Hole Fiber Optic Stripper Compact, single-hole design for efficient fiber buffer coat stripping.

Fiber Optic Stripping

3SAE Technologies designs and manufactures a wide range of high performance fiber optic stripping tools for optical fiber coating removal, providing the most

Jonard Tools JIC-375 Three Hole Fiber Optic Stripper

The Jonard Tools JIC-375 Three Hole Fiber Optic Stripper performs all common fiber stripping functions. This fiber optic stripper strips the 1. 6-3 mm fiber jacket, 600-900 micron buffer coating, and 250 micron coating down to expose the 125 micron glass fiber.

Fiber Stripper

Fiber Strippers, Decoaters and other Stripping Tools Fiber strippers and other fiber optic stripping tools with which you prepare your fibers for splicing.

Fiber Stripping | Komax

Semi-automatic fiber-stripping machines enable precise and efficient processing of coated, buffered, and jacketed glass fibers. Designed for reliability and repeatability, these machines ensure high-quality

Amazon : Fiber Optic Cutter

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6" Fiber Optic Stripper 3 Hole,Precision Wire Cutter/Wire Stripper for Installers and Electricians,Safe¬ Hurt nm Cable Wire Fiber Strippers with Small Adjustment Wrench 50+ bought in past month You

Fiber Optic Termination Tools

The fiber coating/buffer stripping tool (callout 3 in Figure G2.1) provides a quick, easy, and reliable way to remove the coating from an optical fiber in preparation

Signal fire Fiber Optic Stripper, 9 in 1 Fiber Optic Stripper Tool ...

Signal fire ZSQ-09 multifunctional optical fiber stripper which is small size and light weight, combines Miller pliers, two specifications of leather wire stripping pliers, alcohol cleaning cotton, scissors, fiber

Fiber Optic Strippers, Stripping Tools

Fiber Optic Strippers Specialized Products'' selection of fiber optic strippers and cable stripping tools includes various styles of cable strippers to fit your needs. We offer the highest quality tools from top

Thermal Stripper, Adjustable Blade | Jonard Tools

Designed to thermomechanically remove coatings from optical fibers with cladding, this adjustable thermal stripper is perfect for stripping extremely difficult or baked

Fiber Optic Cable Stripper Professional Grade 3-in-One

3-hole fiber optic cable stripper—precisely strips cable jacket, buffer, and coating. Angled jaw, carbon steel blades, ergonomic TPU grip, safety lock.

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