

Use wire strippers to remove the outer layer of the fiber core



Overview

Wire strippers are critical tools to allow safe removal of insulation and protective layers without damaging the core fiber.

Key Takeaways

Use a properly sized fiber optic stripper to carefully remove the outer jacket and buffer layers without damaging the glass fiber underneath. Selecting the Right Tool

For single-fiber cables, the outer jacket is typically 2–3 mm in diameter and can be stripped using a wire stripper of the appropriate gauge. It is crucial to select a tool that matches the cable diameter to avoid cutting or damaging the underlying aramid yarn or fiber core (Kevlar® strength members) which provide tensile strength to the cable assembly. Professional fiber strippers often feature multiple notches or holes calibrated for different layers: a large notch for the outer jacket, a middle notch for the buffer, and a small notch for the acrylate coating over the glass fiber.

Stripping Technique

- **Position the Cable:** Place the fiber in the correct slot of the stripper, ensuring the blade depth is set to remove only the intended layer.
- **Cut the Jacket:** Squeeze the jaws to press through the outer jacket and slide it off the cable. The edge should be clean and straight, not torn or jagged.
- **Inspect Strength Members:** After removing the jacket, check the aramid yarn for any cuts. Damaged yarn reduces the cable's tensile strength.

- **Remove Buffer Coating:** Use the appropriate notch to strip the buffer down to the 125 µm cladding. Avoid touching the glass fiber itself to prevent nicks or scratches .
- **Final Cleaning:** If any primary acrylate coating remains, the same tool can often remove it. Ensure the fiber is clean and free of debris before splicing or connectorization .

Tips and Precautions

- Always use sharp, precision tools designed for fiber optics; generic wire strippers or knives can damage the fiber .
- Avoid excessive force; the goal is to remove coatings cleanly without nicking the glass.
- For midspan stripping or repeated operations, consider automated or thermal strippers for consistency and reduced operator error .
- Handle the exposed fiber carefully; even minor scratches can cause signal loss or connection failure . By following these steps and using the correct fiber optic stripping tools, you can safely remove the outer layers of a fiber core while preserving the integrity of the glass fiber for splicing or connectorization.

Article Content

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

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

Fiber and Cable Stripper – Types, Uses & Guide

First, strip the outer sheath of the optical fiber with optical fiber strippers; remove the stripped outer sheath of the

How to Properly Strip, Cut, and Test Fiber Optic Cables?

Use an optical fiber stripper to remove the protective outer sheath of the fiber cable. Hold the cable securely and apply consistent

Wire Strippers & Stripping Tools

Wire strippers are critical tools to allow safe removal of insulation and protective layers without damaging the core fiber. Fiber optic

Fiber Cable Stripper Wire Stripping Plier

High-precision Fiber Optic Cable Strippers and Wire Stripping Pliers. Designed to safely remove outer jackets, loose tubes, and

Fiber Cable Stripping Tools: A Comprehensive Guide

Stripping tools are designed to remove specific layers without damaging the underlying fiber. The precision required varies

Fiber U Lesson Plan: Basic Skills Lab, Remote

Use the fiber strippers to strip ~1" (25mm) from the end of the fiber in 3 steps, about 1/4-3/8" (6-8mm) at a time. Hold the stripper at a

Stripping Fibers

Stripping the fiber takes a certain amount of pulling to remove the buffer coatings. You hold the stripper in one hand and the fiber

Stripping tool for outer cable sheath (round/flat)?

Hi folks. When wiring, the biggest pain I have is removing the main outer insulation from flat and round cable (the grey

Stripping It Down: Types of Wire Strippers and Their Uses

A wire stripping tool, commonly known as a cable stripper or wire stripper, is an essential device used to remove the insulation

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

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

Fiber Cable Stripping Tools: A Comprehensive Guide

Fiber Cable Stripping Tools: A Comprehensive Guide The delicate nature of fiber optic cables requires specialized tools for proper

How to use fiber optic termination tools

The fiber optic jacket stripper (FJS-3) is used to remove the fiber optic cable outer jacket. The Kevlar shears (86-12SF) are used to

Fiber Stripper

It enables you to remove the outer jackets from 2.0-2.4mm fiber, 2.8-3.0mm fiber and 2.0-3.0mm loose tube buffer tubes. Loose tube

Good stripping techniques for your fiber optic cable ...

And thus, when stripping an outer layer, care must be taken to ensure that the layers underneath are not damaged. Regardless of

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