How to strip the outer layer of a fiber optic cable



Overview

Good fiber optic stripping techniques in your cable assembly process are crucial. See best practices for how to strip fiber optic cable buffers & jackets.

Key Takeaways

Use a fiber optic jacket stripper or hook-blade knife to carefully remove the outer jacket without damaging the inner fibers.

Step-by-

Step Method1.

Prepare the Cable

Measure and mark the length of the outer jacket you want to remove, typically 7–10 inches from the cable end for connectorization or splicing. Ensure you have a clean workspace and wear safety glasses to protect against small fiber shards. 2.

Score the Outer Jacket

Use a fiber optic jacket stripper or a hook-blade knife to make a circular score around the cable at the marked point. Be careful not to cut too deeply; the goal is to cut the jacket only, leaving the aramid yarn and inner fibers intact. 3.

Use the Ripcord (if available)Many fiber optic cables have a ripcord under the jacket. Pull the ripcord at a 90-degree angle to the cable to split the jacket along its length. If no ripcord is present, gently bend the scored section until the jacket breaks, then peel it off.

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Avoid using excessive force to prevent damaging the inner fibers. 4. Remove Aramid Yarn (Kevlar)After the jacket is removed, cut the exposed aramid yarn with Kevlar scissors close to the jacket end.

Bundle the remaining yarn to keep it out of the way for the next steps. The aramid yarn provides tensile strength, so avoid cutting more than necessary. 5.

Strip Inner Buffers (Optional)If you need to expose the glass fiber, use the appropriate groove on a fiber stripper to remove the 900-micron and 250-micron buffer coatings in small increments (1/4–3/8 inch at a time) to reduce stress on the fiber. Hold the stripper at a 45-degree angle to minimize fiber breakage.

Tools for Quick and Safe Stripping

Fiber optic jacket strippers: Adjustable for different cable diameters, allow clean removal of the outer sheath. Hook-blade knives: Useful for scoring and peeling jackets when a ripcord is not present. Kevlar scissors: For cutting aramid yarn without fraying.

Needle-nose pliers: To help pull off the jacket after scoring.

Tips for Efficiency and Safety

Always make small, controlled cuts rather than trying to remove the jacket in one motion. Keep cutting tools sharp to prevent tearing the jacket or damaging inner fibers. Dispose of fiber scraps in a labeled container to avoid injury.

Practice on spare cable sections to improve speed and precision before working on critical installations. By following these steps and using the right tools, you can quickly and safely strip the outer layer of a fiber optic cable while preserving the integrity of the inner fibers and aramid yarn.

Article Content

Stripping Techniques For Your Fiber Optic Cable

Good fiber optic stripping techniques in your cable assembly process are crucial. See best practices for how to strip fiber optic cable buffers & jackets.

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 optical fiber; and finally, cut the

How to Strip and Prepare Fibre Optic Cable for Termination: A ...

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In this informative guide, we''ll walk you through the step-by-step process of stripping and preparing fibre optic cable for termination, covering techniques, tools, and best practices to help you

Fiber U Lesson Plan: Basic Skills Lab, Remote

Use the fiber stripper to cut off 2" (50mm) of the cable jacket and pull off the cut piece. Use the first groove in the fiber stripper - the biggest one - and just gently cut the fiber jacket and pull it off. Be

The Ultimate Optical Fiber Stripper Guide

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to ensure reliable network performance with top tools.

How to Strip And Clean Fiber-Optic Cable

In our continuing discussion of installing FO cables, let''s use a step-by-step approach in detailing how to strip and clean indoor and outdoor FO cables. Please refer to the noted FO cable cross-section

trueCABLE''s Fiber Optic Cable Strippers: The Essential Tool for Fiber

Precise fiber optic stripping matters. See trueCABLE''s 3-hole Fiber Optic Stripper features, safe use tips, and step-by-step guide for flawless terminations.

How To Strip Fiber Optic Cable | Instructional

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a simple way to strip optical fiber.

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

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

In this lesson, we will identify and examine cables, then prepare them for splicing or termintion by stripping the cable to expose the coated fibers. Finally we will strip

Good stripping techniques for your fiber optic cable ...

Without question, good stripping techniques in your fiber optic cable assembly process are imperative. What happens if you damage the fiber during this production step?

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Vocabulary list of GPT-4o (o200k_base) and GPT-4/GPT-3.5 (cl100k_base) tokenizers. Special tokens are excluded. - kaisugi/gpt4_vocab_list

How to quickly and cleanly remove the outer covering of optical fiber ...

Use the Wire Stripper/Splitter to strip a variety of fiber optic and coaxial cables up to 14 mm in diameter. This stripping tool provides a comfortable and secure grip to help make the fiber ...

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

Lesson 3: Fiber Optic Cable And Fiber Preparation Objectives: From this lesson you should learn: How to identify typical fiber optic cables How to prepare cables for

How to Strip and Prepare Fibre Optic Cable for Termination: A ...

Introduction: Stripping and preparing fibre optic cables for termination is a critical step in the installation and maintenance of fibre optic networks. Properly stripping the cable and preparing

Fiber and Cable Stripper – Types, Uses & Guide

2. CFS-2 Fiber Cable Cutting Scissors the three-hole optical fiber cable cutting scissors uses a three-hole segmented stripper, which is small in size, light in weight, easy to operate, flat

Sheath Removal and Stripping of 8 and 12-Fiber Ribbon Interconnect Cables

1.2 Corning Cable Systems ribbon interconnect cables are lightweight, flame retardant cables designed for high performance transmission of digital and analog signals in process control, computer and

NKT Photonics App notes

FIBER HANDLING, STRIPPING, CLEAVING AND COUPLING This application note addresses general handling of fibers from NKT Photonics, including how to strip the protective coating, how to cleave

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