Which tool should be used first when stripping the optical cable



Overview

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.

Key Takeaways

Optical fiber cables are stripped using specialized mechanical, thermal, or chemical tools designed to remove protective coatings without damaging the glass core.

Mechanical Fiber Strippers

Mechanical fiber strippers are the most common tools used in the field. They feature precision-ground or laser-drilled holes that match the fiber's coating diameter, allowing technicians to remove the buffer and acrylate coatings cleanly. Standard three-notch strippers can handle most 125 µm cladding fibers with 250 µm coatings, while adjustable strippers allow customization for non-standard or legacy fibers.

These tools are essential for preparing fibers for fusion splicing or connector termination and prevent nicks or scratches that could cause signal loss or back reflections.

Thermal and Thermo-

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Mechanical Strippers

Thermal strippers use heat to soften the fiber's coating before removal. This method is particularly useful for delicate fibers or laboratory applications where minimal mechanical stress is required. Thermo-mechanical strippers combine heat with mechanical pulling to ensure precise and gentle stripping, often used in manufacturing or high-precision installations.

Specialized Strippers

Flat Drop Cable Strippers: Designed for FTTx installations, these tools remove the outer jacket of flat drop cables without damaging internal fibers or strength members. Plastic Optical Fiber (POF) Strippers: Tailored for fibers with larger or non-standard coatings, ensuring clean removal without cracking the fiber. Bare Fiber Grippers: Tools like the BFG1 provide a secure hold on the fiber during stripping, reducing the risk of microfractures caused by clamping or wrapping.

Chemical and Non-

Contact Methods

Some applications use chemical solvents or acids to strip coatings, while advanced non-contact methods like laser ablation or hot air can remove coatings without direct mechanical contact. These methods are typically used in specialized laboratory or industrial settings.

Additional Tools

Fiber cable cutting scissors and jacket strippers are often used alongside fiber strippers to remove outer sheaths and cut aramid yarns cleanly. Kits like the TSK1 include multiple blade sets and fiber guides for different fiber diameters, providing a complete solution for connectorization and splicing. In summary, choosing the correct stripping tool depends on the fiber type, coating thickness, and application, with mechanical, thermal, and specialized tools forming the core of fiber optic cable preparation.

Proper use ensures signal integrity and reliable network performance.

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Article Content

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 exposed aramid fiber with cable-cutting

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

- Use a fibre optic cable stripper to remove the protective coating from the end of the cable. - Follow manufacturer guidelines to adjust the stripper blade depth for the specific cable

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

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

After watching the video Fiber Optic Stripping Tools, or follow the directions here, use a fiber stripper to strip off the buffer coating from tight buffer fiber.

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, thermal and non-contact strippers.

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

The purpose of fiber optic cable strippers is to remove any plastic protective coatings from the fiber optical strand assembly prior to cleaving, connector termination, or in-line splicing.

Fiber Optic Termination Tools

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 and matched blades ensure that the

Stripping Techniques For Your Fiber Optic Cable Assembly Process ...

This is the “golden rule” in stripping. Whether you use hand tools or automated stripping machines, in time, the cutting edge will wear. A dull cutting edge can bend and stress the fiber. Do

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Preparing your Fiber Optic Cable for Connectors or Splices

Use a fiber optic jacket stripper to remove the outer protective coating. Carefully score the jacket without damaging the inner buffer coating.

The Ultimate Optical Fiber Stripper Guide

Inspect the Tool: Before starting, always inspect your optical fiber stripper. Ensure the stripping notches are clean and free of debris. Check for any

Fiber U Lesson Plan: Basic Skills Lab, Remote

Lesson: Stripping Optical Fiber Cable Objectives: From this lesson you should learn: How to use these tools to strip cable to the bare fiber Tools: Safety Glasses Fiber Stripper Kevlar Shears Components:

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.

The Ultimate Optical Fiber Stripper Guide

Choosing the Right Optical Fiber Stripper: A Comparison With various options available, selecting the ideal tool can seem daunting. The table below

Fiber Optic Termination Tools

Thorlabs offers the following tools used to install connectors on single mode and multimode optical fiber. Fiber Buffer Stripping Tools, Stripping Kit, and

Fusion Splicing Basics (Part 2): Strippers and Cleavers

When performing a fusion splice, the optical fiber must be stripped down to the bare glass. Various techniques can remove the coating: Mechanical

Fiber U Basic Skills Lab Workbook-tools

Fiber U Basic Skills Workbook Tools These are typical fiber optic technician''s tools recommended for the hands-on exercises in the workbook. In the following Workbook sections, we''ll show you how to use

Types of wire stripper tool and how to use them.

This blog shows how to choose and use wire strippers correctly. Help you significantly impact the efficiency of fiber optic installations.

Preparing your Fiber Optic Cable for Connectors or Splices

Learn the essential steps and tools for preparing fiber optic cables for connectors or splices. Master mechanical and fusion splicing techniques to

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