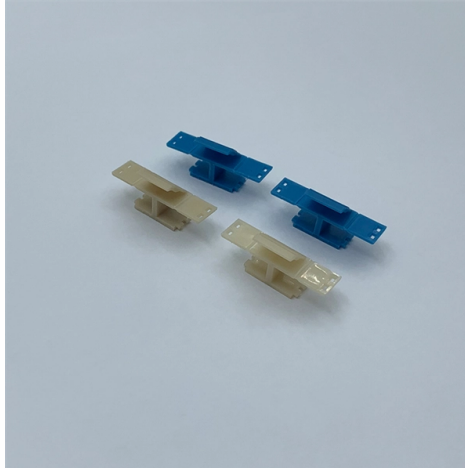


Fiber Optic Cable Stripping Data



AI Overview

Fiber optic cable stripping involves carefully removing protective coatings to expose the bare fiber for termination, using precise tools and techniques to prevent damage and ensure optimal signal performance.

Stripping Process Overview

Stripping a fiber optic cable is a critical step in preparing it for termination. The process typically involves:

- Inspection and preparation:** Ensure the work area is clean, well-lit, and free from dust. Examine the cable for kinks, bends, or damage before stripping.
- Layer-by-layer stripping:** Multi-layer cables require progressive stripping of each layer to specific lengths. The primary buffer (usually 250 μm) is removed first, followed by secondary buffers and jackets, without touching the glass fiber itself.
- Cleaning:** After stripping, the exposed fiber is cleaned with alcohol wipes or a suitable cleaning solution to remove debris and residue.
- Cleaving:** A fiber optic cleaver is used to create a clean, perpendicular end face on the stripped fiber, which is essential for low-loss termination.
- Inspection:** Use a fiber inspection microscope or visual fault locator (VFL) to ensure the cleave is smooth and defect-free.

Tools for Stripping

Fiber strippers are precision tools designed to remove coatings without nicking or scratching the glass fiber. They come in various types:

- Mechanical strippers:** Handheld tools with blades sized for specific fiber diameters (commonly 125 μm cladding with 250 μm coating).
- Thermal strippers:** Use heat to soften the buffer for easier removal, reducing the risk of mechanical damage.
- Automated systems:** Provide consistent, repeatable stripping with minimal operator skill, ideal for high-volume assembly.
- Specialty strippers:** For plastic optical fibers (POF) or tight buffers (e.g., 900 μm), and for “window strip” operations where a short section of coating is removed mid-fiber.

Mechanical Data and Strip Force

The mechanical behavior of fibers during stripping is influenced by coating integrity and aging:

- Strip force testing:** Typically performed on a 30 mm fiber section at 500 mm/min, with data acquisition rates around 200 Hz, to...

Article Content

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Fiber and Cable Stripper – Types, Uses & Guide

Learn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover their applications in fiber splicing, cable prep, and FTTH.

Example of Stripping fiber for network data cabling

Mike leads our fiber training with a overview or guide for new techs in the data cabling field. This is a small piece of fiber but helpful to know the steps on which you will be using...

How to Fix a Cut Fiber Optic Cable

While a cut or damaged fiber optic cable can temporarily take your network down, it is possible to quickly fix the cable with the right tools. This wikiHow article will teach you how to splice a

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Stripping-Instructive-Flat-Drop-Fiber-Optic-Pigtail

The pigtail is a high-quality optical assembly manufactured using custom connectors to accomodate another fiber cable in a tray, rack or splice closer. These factory preterminated flat drop pigtails are

X5 grey Optical Fiber Cleaver High precision stripping tool Fiber optic ...

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The cutter adopts a special super alloy,featuring a fine edge. Stripping tube diameter is 4.5/ 6 /7 /8 /11mm, the size of the diameter of wire stripping above it can be used. Uses the open style structure,

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Fiber stripping and damage tips

A product with damaged fiber may pass all standard production testing (visual inspection, IL / RL, etc), but will be extremely susceptible to future field failure. Controlling stripper blade quality

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.

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Optical Fiber Strippers

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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

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About this item Precision Cutting Mode: Our Armored Cable Stripper lets you switch instantly between transverse (circular) and longitudinal cutting by simply turning the pull rod — rotate the blade 90° to

Contact Us

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