

Stripping Method for 4-Core Optical Cable

Article Overview

Stripping a 4-core optical fiber cable involves carefully removing the outer jacket, aramid fibers, and buffer coatings in stages to expose the individual fibers without causing damage.

Tools and Safety

- o Kevlar scissors for cutting strength members (aramid fibers)
- o Fiber optic strippers with multiple grooves for different buffer sizes
- o Alcohol wipes or cleaning solution for cleaning fibers
- o Safety glasses to protect eyes from fiber shards
- o Clean workspace free of dust and debris

Step-by-Step Process

- o Cut the Cable Use kevlar scissors to cut the cable to the desired length. This allows easier handling and preparation for splicing or termination .
- o Remove the Outer Jacket
 - o Use a fiber optic cable stripper to remove approximately 2 inches (50 mm) of the outer jacket.
 - o Select the largest groove on the stripper and gently cut the jacket without nicking the fibers underneath .
- o Trim Aramid Fibers
 - o Cut the exposed aramid yarn close to the jacket end using kevlar scissors.
 - o Wind the fibers into a bundle to make them easier to handle and prevent interference with the fiber stripping .
- o Strip the Fiber Buffers
 - o For each fiber, strip the 900-micron buffer first, then the 250-micron coating if present.
 - o Use the appropriate groove on the fiber stripper and remove the coating in small steps (about 6-8 mm at a time) to reduce stress on the fiber.
 - o Hold the stripper at a 45-degree angle to minimize the risk of cracking or breaking the fiber .
- o Clean the Fibers
 - o Use alcohol wipes or a microfiber cloth to remove any debris or residue from the stripped fiber ends.
 - o Ensure the fiber is clean and smooth before cleaving or terminating .
- o Inspect and Prepare for Termination
 - o Use a fiber optic cleaver to create a clean, perpendicular end face.
 - o Inspect the cleaved fiber with a microscope or visual fault locator to ensure there are no defects .

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Best Practices

- o Strip each layer progressively; do not attempt to remove all layers at once .
- o Maintain sharp tools and replace worn blades to prevent fiber damage .
- o Dispose of fiber scraps safely in a designated container to avoid injury .
- o Work slowly and carefully, especially when handling multiple fibers in a 4-core cable . By following these steps and using the proper tools, you can safely strip a 4-core optical fiber cable, preparing it for splicing or connectorization while minimizing the risk of fiber damage and ensuring optimal signal performance .

These cables consist of multiple insulated conductors within a protective jacket, often made from rubber or another

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

Learn the essential steps and tools for preparing fiber optic cables for connectors or

Fiber & Cable Stripper for Fiber Tools 1. FOS03 Fiber strippers remove the coating from the fiber optic cable to expose

In this week's video, Ben Hamlitsch shows you how to cut, strip, clean, and cleave your

Learn how to terminate fiber optic cable with connectors and splicing. Discover tools,

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an

Issue 4 for stripping tool, remove the marked length of jacket (Figure 3). For consistent results, hold the stripping tool perpendicular

Without question, good stripping techniques in your fiber optic cable assembly process are imperative. What happens if you damage

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a

Learn how to strip multi core cable correctly, avoid strand damage, set proper strip length, and improve termination

Lesson 3: Fiber Optic Cable And Fiber Preparation Objectives: From this lesson you should learn: How to

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I am stripping two 144F loose tube cables and one 48F loose tube cable. Please like,

Whether it is indoor or outdoor fiber-optic (FO) cable, using a step-by-step approach reduces the chance of fiber damage while

Fiber Optic Cable Splicing is the method of joining two fiber optic cables together. Termination is the other, more

This guide covers everything you need to know about 4 core fiber, including its internal structure, TIA standard color

Web: <https://bssoda.pl>

