

RIVO MULTITRADE OPTICAL SYSTEMS

Stripping optical cables to make steps



Overview

Learn fiber splicing and winding in 5 steps with pro tips on stripping, cleaving, fusion, and sleeve protection.

Key Takeaways

Stripping optical fiber cables involves progressively removing the outer jacket, strength members, and buffer coatings in steps to expose the glass fiber for splicing or termination. Safety First

Always wear safety glasses and work in a clean, well-lit area free of dust and debris. Dispose of all fiber scraps properly, as broken fibers can cause injury or damage equipment. Avoid using generic wire strippers or blades, as these can nick or scratch the fiber, leading to signal loss or failure.

Tools Needed

- Optical fiber stripper: Specialized tool with multiple notches for different layers (outer jacket, 900µm buffer, 250µm coating) to avoid damaging the glass core.
 - Kevlar scissors: For cutting aramid yarn or strength members.
 - Fiber cleaver: To create a clean, perpendicular end face on the stripped fiber.
 - Alcohol wipes or cleaning solution: To remove debris from the stripped fiber end.
- #### Step-by-Step Stripping Process
- Cut the Cable: Use Kevlar scissors to cut the cable to the desired length.

- **Remove Outer Jacket:** Use the largest notch on the fiber stripper to gently cut and remove 2 inches (50mm) of the outer jacket without damaging underlying layers .
- **Cut Strength Members:** Trim aramid yarn or other strength members close to the jacket end and wind them into a bundle for easier handling .
- **Strip Fiber Buffers:** Remove the 900µm tight buffer in 3 steps, about 6-8mm at a time, holding the stripper at a 45-degree angle to reduce stress on the fiber. Then, remove the 250µm coating using the smallest notch to expose the 125µm glass cladding .
- **Clean and Inspect:** Use alcohol wipes to clean the fiber and inspect with a microscope or visual fault locator to ensure a smooth, defect-free end .
- **Repeat for Multiple Fibers:** If the cable contains multiple fibers, repeat the stripping, cleaning, and cleaving process for each fiber individually .

Best Practices

- Strip each layer progressively, never all at once, to avoid damaging the fiber or weakening the connection .
- Maintain sharp, clean stripping tools to ensure precision.
- Allow plenty of time for each step and avoid rushing, as even small nicks can compromise signal integrity .
- Follow manufacturer guidelines for stripper blade depth and cable type. By following these steps and using the proper tools, you can safely strip optical fiber cables in steps, preparing them for splicing, termination, or other network installations while maintaining signal quality and reliability .

Article Content

Fiber U Lesson Plan: Basic Skills Lab, Remote

You have successfully completed this exercise when you have been able to strip the jacket and both buffer coating layers from the

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In this lesson, we will identify and examine cables, then prepare them for splicing or termination by stripping the cable to expose the

Ultimate Guide: Fibre Optic Cable Stripping and Preparation

In this informative guide, we'll walk you through the step-by-step process of stripping and preparing fibre optic cable

Fiber Splicing & Winding Tutorial – Step-by-Step Guide

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In this video, we walk through the essential steps of preparing and splicing a fiber optic cable. Watch the complete

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How to Properly Strip, Cut, and Test Fiber Optic Cables? In fiber optic installations, precision is critical to maintaining optimal signal

Fiber Optic Cable Stripping: A Comprehensive Guide

By following these guidelines and utilizing the appropriate tools, you can ensure safe and efficient stripping, leading to reliable and

How to Strip And Clean Fiber-Optic Cable | FleetOwner

In our continuing discussion of installing FO cables, let's use a step-by-step approach in detailing how to strip and clean

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

How to Splice Fiber Optic Cable – Step-by-Step Fusion Splicing Guide

Learn how to splice fiber optic cable using fusion splicing with this complete step-by-step guide. Includes tools, best

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Stripping and preparing fibre optic cables for termination is a critical step in the installation and maintenance of fibre

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Discover the differences between simplex and duplex fiber optic cables, their pros, cons, and best applications in

Fiber Optic Cable Splicing Methods: A Practical Guide

Step 1: Cable and Fiber Preparation First, the outer cable jacket, armoring, and internal buffer tubes must be carefully

Introduction to Fiber Optics Cables – Stripping and Cleaving

Notice the difference between the two types of fiber. Stripping and cleaving optical fiber We will also learn some skills

How to Terminate a Fiber Cable Using MetraAV's Termination Tools

Watch a quick demo showing how to use MetraAV's fiber termination tools to terminate a fiber cable. This includes an

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Cable Preparation Best Practices for Fiber Optic Indoor/Outdoor ...

This best practices document is a step-by-step guide for end and midspan access of loose tube optical cable, including sheath

The Ultimate Guide to Splicing of Fiber: Techniques and Tips

Just like in fusion splicing, the initial step when mechanically splicing involves stripping down the fiber optic cables to

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