

Stripping and Fixing of Optical Fiber Cables



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

Optical fiber cables can be stripped using mechanical, thermal, or specialized hand tools, with careful attention to avoid damaging the glass core.

Mechanical Stripping

Mechanical strippers are the most common tools for removing fiber coatings. They feature precision-ground or laser-drilled holes sized for specific fiber diameters, allowing the technician to remove the outer jacket, buffer coating, and acrylate layer without touching the glass core. Standard hand strippers often have multiple notches to handle different coating thicknesses, such as 250µm or 900µm, and are suitable for fusion splicing or connector termination.

The process typically involves: Stripping the outer jacket first
Removing aramid yarn or strength members
Stripping the buffer coating to expose the bare fiber
Thermal Stripping
Thermal strippers use heat to soften the polymer coating, making it easier to remove without applying excessive mechanical force. This method is particularly useful for delicate fibers or laboratory applications where precision is critical. Heated tools reduce the risk of nicks or scratches that can compromise signal integrity.



Specialized Tools

Flat Drop Wire Strippers: Designed for FTTx installations, these remove the outer jacket of flat drop cables without damaging internal fibers. **Adjustable Strippers:** Allow manual adjustment of blade diameter for non-standard or legacy fiber types.

Three-

Hole or Multi-Notch Strippers: Enable stripping of multiple layers with a single tool, improving efficiency and consistency. **Cable Cutting Scissors:** Used to trim aramid fibers or cut the outer sheath cleanly after stripping.

Best Practices

Strip each layer progressively, not all at once, to avoid damaging underlying layers. Ensure the blade does not contact the glass fiber, as even a small nick can lead to cracks or signal loss over time. Use professional-grade tools designed for the specific fiber type and coating thickness.

Inspect the stripped fiber to confirm a clean, straight cut without jagged edges or residual coating. By combining the right tools with careful technique, technicians can safely prepare optical fibers for splicing, connectorization, or other applications while maintaining signal integrity and long-term reliability.

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.

How to Fix a Cut Fiber Optic Cable: 7 Steps (with Pictures)

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

Fiber Optic Cable Stripping: A Comprehensive Guide

Mastering fiber optic cable stripping requires practice and attention to detail. By following these guidelines and utilizing the appropriate tools, you can ensure safe and efficient stripping, leading to

Fiber optic cable splicing and termination steps Guide

① Before stripping, check whether the connected optical cable is damaged or squeezed and deformed; ② Straighten out the optical cable and make reservations according to the regulations;

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

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

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.

How to Repair Fiber Optic Cable: A Comprehensive Guide

This blog shares the common causes of fiber optic issues and provides detailed solutions on how to repair fiber optic cable.

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 fiber without breaking the fiber.

Fiber Optic Cable Preparation

Use the right tool. Use protective equipment (goggles, gloves...). Avoid sudden pulls, marks on the optical fiber protection, and bends in the cable. Clean with cleaning solution if gel or petrolatum is

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URJIX™ 2 Pack of Fiber Optic Back Joint Optical Cable Cold

Description: Used For The Docking Of Optical Fibers And Optical Fibers Or The Interconnection Of Optical Cables And Optical Cables. By Fixing Two Well-Finished Optical Fibers In A High-Precision

Fiber U Basic Skills Lab Workbook-splicing

Tools And Materials Needed Safety Glasses ST patch cord Fiber Optic stripper Test equipment: VFL and OLTS, reference test cables Scribe Miller Jacket stripper Trash bin Mechanical Splice

Fiber Optic Pigtail: Types, Splicing Guide, Specs & Price

Fiber optic pigtail guide : SC/APC & LC/UPC connectors, 0.9/2.0/3.0 mm buffers, single-mode and multimode types, fusion splicing steps, price ranges, specifications, and how to

QAUBEN Optic Fiber Cable Waterproof Car Side Glow LED

Step 3: Fix it with a screwdriver, take care not to tighten it, otherwise it will not transmit light. □Usage□ For all kinds led fiber optic illumination engine and decoration such as optical fiber hanging lamps, ar

Optical Cable Stripping Vertical Horizontal Compact Fiber ...

Product description Description: □Double Direction Stripping□: Features both horizontal and vertical cutting capabilities. The adjustable guide wheel and V-shaped positioning groove allow accurate

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Jonard Tools | World's Best Tool Warranty

TK-199B The Jonard Tools TK-199B Ultimate Backpack Fiber Prep Kit provides an array of tools needed to access and prepare a fiber optic cable for termination. It

Fusion Splicing of Fibers – electric discharge, fusion

Fusion splicing of fibers is a technique of making low-loss fiber joints by fusing fiber endfaces together. It is widely used in fiber optics.

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