ZITHA TECH SPECIALTY CABLES (Pty) Ltd

How to use fiber optic strippers



Overview

The Ultimate Optical Fiber Stripper Guide Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to Fiber and Cable Stri.

Key Takeaways

Use a precision fiber optic stripper to carefully remove coatings without nicking the glass, following proper safety and handling procedures.Understanding Fiber Optic Strippers

Fiber optic strippers are specialized tools designed to remove protective coatings from optical fibers, exposing the bare glass for splicing or connectorization. They feature high-precision cavities or slots tailored to specific fiber diameters, typically 125 µm cladding with 250 µm coating, and sometimes larger jackets or tight buffers (e.g., 900 µm) ( ). Using improper tools like generic wire strippers can cause nicks, scratches, or stress fractures, leading to signal loss or connection failure ( ).

Step-by-Step Operating Method
• Prepare the Fiber: Cut the fiber to the desired length, ensuring a clean, roughly cut end. Keep in mind service slack requirements for splicing or termination ( ).

• Select the Correct Slot: Choose the stripper cavity that matches the fiber coating or jacket thickness. Many strippers have multiple slots for different layers ( ).

• Position the Fiber: Insert the fiber into the selected slot, ensuring it is fully seated without bending or stressing the glass ( ).

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• Apply Gentle Pressure: Squeeze the stripper handles to engage the cutting edges. Avoid excessive force to prevent nicking the fiber ( ).

• Slide Off the Coating: While maintaining pressure, gently pull the stripper along the fiber to remove the coating. For short “window strip” operations, remove only the required section ( ).

• Remove Aramid or Strength Members: If the cable contains aramid yarn or other strength members, cut them with appropriate scissors after stripping the coating ( ).

• Inspect the Fiber: Check the stripped fiber under magnification to ensure the glass is undamaged and ready for cleaving or splicing ( ).
Safety and Maintenance
• Wear PPE: Safety glasses are essential to protect against fiber shards ( ).

• Use a Sharps Container: Dispose of fiber scraps safely to prevent injury ( ).

• Clean the Stripper: After each use, remove coating residue with a soft brush and isopropyl alcohol. Store the tool in a protective pouch to prevent blade damage ( ).

• Avoid Misuse: Do not use the stripper on copper wires or other materials, as this can damage the precision-ground edges ( ).
Tips for Best Results
• Use professional-grade strippers for consistent, repeatable results and minimal signal loss ( ).

• Match the stripper to the fiber type and coating to avoid over- or under-stripping ( ).

• Maintain a steady hand and consistent speed when sliding the stripper to prevent micro-cracks ( ). By following these steps and precautions, technicians can achieve clean, precise fiber preparation, ensuring reliable splicing, termination, and overall network performance.

Article Content

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Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to

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

Fiber Strippers – tools, mechanical, thermal, chemical,

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A fiber stripper is a precision tool used to remove the protective polymer fiber coatings from an optical fiber.

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Fiber Stripping Tools

Jonard Tools manufactures more than a dozen fiber optic stripping tools that will suit a broad range of fiber

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A three-hole stripper is a pivotal tool when working with fiber optic cable. In order to

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Top Tools for Fiber Optic Technicians

In today''s video we will go over some of the essential tools needed to work with fiber optic

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F-STR-103D Fiber Optic Stripper

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Fiber U Lesson Plan: Basic Skills Lab, Remote

Use the fiber strippers to strip ~1" (25mm) from the end of the fiber in 3 steps, about 1/4-3/8" (6-8mm) at a time. Hold the stripper at a

Tips & Techniques for Using Stripping Tools on Fiber Optic Cable

If the blade of the strip tool contacts the bare fiber, it''s easy to scratch the fiber OD, reducing product reliability. Click

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