Fiber Optic Cable Sheath Stripper



Overview

Fiber Stripping Tools | EmtelleMinicable Sheath Stripper slits the minicable sheath in diametrically opposite locations to expose the individual loose tube.

Key Takeaways

Fiber optic cable sheath stripping involves carefully removing the outer jacket and protective layers using specialized tools to expose the fiber without causing damage.

Key Principles

Proper stripping is critical because any nick or scratch on the fiber can weaken it, potentially leading to cracks or signal loss under stress or thermal cycling. Each layer of a multi-layer cable must be stripped individually and progressively, as different layers often require different lengths and techniques.

Common Tools

Fiber Optic Cable Strippers: Adjustable strippers allow precise removal of the outer jacket and buffer coatings. The blade depth should be set according to the cable diameter to avoid cutting the fiber.

Three-



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Hole Optical Fiber Cutting Scissors: These are used for stripping 125 µm optical fiber and 250 µm cladding, as well as the outer sheath of pigtails, without damaging the fiber. Armored Cable Slitters: For armored or corrugated cables, specialized slitting tools can perform longitudinal or circumferential cuts to remove the polyethylene sheath and armor in one pass. Optical Fiber Cleavers and Inspection Microscopes: After stripping, cleavers create a clean, perpendicular end face, and microscopes or visual fault locators (VFLs) ensure the fiber is defect-free.

Step-by-

Step Stripping Procedure

Prepare the Work Area: Ensure a clean, well-lit environment free of dust and debris. Measure and Mark: Determine the required strip length for the connector or installation hardware. Remove Outer Jacket: Use a fiber optic cable stripper or slitter, adjusting the blade depth to match the cable diameter.

Rotate the tool around the cable if necessary to cut evenly. Remove Inner Layers: Strip buffer coatings or strength members individually, taking care not to nick the fiber. Clean the Fiber: Use alcohol wipes or a cleaning solution to remove debris and residue from the stripped fiber end.

Inspect and Cleave: Use a cleaver to create a smooth, perpendicular end face and inspect with a microscope or VFL to ensure no defects. Repeat for Multiple Fibers: If working with multi-fiber cables, repeat the process for each fiber individually, maintaining consistency and precision.

Safety Considerations

Always wear eye protection when handling fibers, as broken glass fibers can cause injury. Avoid excessive pulling, bending, or crushing of the cable, which can damage the fiber and affect transmission. Follow the minimum bend radius and pulling force specifications provided by the cable manufacturer.

Best Practices

Strip cables progressively, layer by layer, rather than attempting to remove all layers at once. Use properly calibrated tools to prevent fiber damage. Maintain a clean workspace to avoid contamination of the fiber end, which can degrade signal quality.

For armored or specialty cables, use appropriate slitting tools to handle strength members and armor without damaging the fiber. By following these methods and using the correct tools, fiber optic cable sheath stripping can be performed safely and efficiently, ensuring optimal performance and longevity of the fiber network.

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Article Content

Fiber Stripping Tools | Emtelle

Minicable Sheath Stripper slits the minicable sheath in diametrically opposite locations to expose the individual loose tube elements. The sheath stripper can have either single or double cassettes.

Fiber Optic Cable Stripping Tools and Equipment

Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers to ensure optimal fiber otic performance.

Fiber Optic Strippers Factory

When stripping fiber optic cable, a professional quality stripping tool makes your job easier by providing a clean cut. A fiber stripper should have hardened stripping jaws that are manufactured with tight

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.

Fiber Strippers – tools, mechanical, thermal, chemical,

A fiber stripper is a precision tool used to remove the protective polymer fiber coatings from an optical fiber. This process exposes the bare glass without

Fiber Stripping Tools

Jonard Tools manufactures a large range of fiber optic stripping tools specifically designed for technicians in the fiber optics industry. Jonard Tools is committed to

FITEL CS201 Cable Sheath Stripper

Accurately removes the sheath of a cable without damaging the fiber • Can be used for making circular and lateral cuts in the cable • Blade is designed for safety • Small and lightweight design

Jacket Stripping Tool | Emtelle

Jacket Stripping Tool is designed to strip the outer sheath from tight jacket Cables/Microcables. At Emtelle, we provide a wide range of associated products

SI-01 Fiber Optic Cable Stripping Tool for Armored Sheaths ...

Versatile Sheath Material Compatibility: This longitudinal stripper is capable of processing various materials including PVC, PE, steel armor, and non metallic reinforced components. It is compatible

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Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire-rated indoor fiber cables.

RS PRO 2378780 Male 2 Contact Gray Battery Modular Connector

RS PRO Fibre Optic Wire StripperIntroducing the RS PRO Fibre Optic Wire Stripper, designed to strip cable sheaths from a variety of wire sizes with minimal effort. The wire stripper offers 3 versatile

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.

OnePlus Xixian Transverse Armoured Cable Stripper for FTTH –

Wide Application: This wire stripper is a professional cutting tool for armored fiber optic cable sheaths, which can be used for armored fiber optic cables, optical cables, wires, coaxial cables, and other

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The FOA Reference For Fiber Optics

All fiber optic applications are not the same. At the FOA, we''re mainly concerned with communications fiber optics - telco, CATV, LAN, industrial, etc., but fiber

Armored cable stripper with dual wheels and rotary blades ...

Free delivery and returns on eligible orders. Buy Armored cable stripper with dual wheels and rotary blades, optimized for fiber optic cable sheath cutting and multi core armored cable

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