

Optical cable stripping longitudinal



Overview

Comprehensive Stripping Kit: Each unit includes the SI-01 cable opener along with two spare blades for continued maintenance and operation.

Key Takeaways

Longitudinal stripping of optical cables involves carefully removing the outer jacket or buffer along the cable's length using precision mechanical, thermal, or laser-based tools to avoid fiber damage.

Mechanical Stripping Techniques

Mechanical strippers are the most common tools for longitudinal stripping. They are designed to cut the outer jacket or buffer along the cable's axis without nicking the optical fibers inside. Key steps include: Tool Setup: Adjust the blade depth to match the cable diameter, ensuring the fiber is not damaged.

For armored cables, tools like the ACS Armored Cable Slitter can slit both the polyethylene sheath and armor in one pass, following the cable's strength members to avoid spiraling or fiber damage. Cable Placement: Position the cable in the tool opening and secure it with adjustable rollers or thumb knobs to maintain a snug fit. Longitudinal Cut: Pull the tool along the cable length, allowing it to follow any external strength members.

For multi-layer cables, strip each layer progressively—outer jacket, aramid yarn, and buffer—ensuring underlying layers remain intact. Blade Maintenance: Keep cutting edges sharp to achieve clean, straight cuts. Dull blades can create jagged edges or micro-nicks that compromise fiber integrity.

Specialized buffer tube strippers, such as the 45-162 to 45-165 series, allow adjustable blade depth for different buffer diameters and support both transverse and longitudinal cuts, making them suitable for indoor loose tube and micro coaxial cables.

Thermal and Chemical Methods

Thermal strippers use controlled heat to soften polymer coatings, allowing them to be slid off the fiber. This method is particularly useful for tight-buffered fibers where mechanical stripping may risk nicking the glass. Chemical stripping involves solvents that dissolve the coating but is less common due to handling hazards and longer processing times.

Laser-

Based Stripping

Laser stripping is a non-contact method that uses a focused laser beam to create an axially oriented groove along the protective cover. The groove allows the outer jacket to be split and removed without touching the fiber, minimizing the risk of micro-cracks or attenuation issues. This method is especially effective for tight-buffered or harnessed cables where precision is critical.

Best Practices

Progressive Layer Stripping: Always remove layers individually, starting from the outer jacket to the buffer, to prevent damage to inner fibers. Avoid Fiber Contact: Ensure blades or heat sources do not touch the glass fiber directly, as even minor scratches can lead to cracks and signal loss. Consistent Technique: Use automated or semi-automated tools when possible for repeatable, uniform stripping, reducing operator error.

Inspection: After stripping, inspect fibers for nicks, scratches, or uneven cuts before splicing or connectorization. By selecting the appropriate tool and following these techniques, longitudinal stripping can be performed efficiently while maintaining the integrity and performance of optical fibers.

Article Content

Longitudinal Cable Sheath Slitter SI-01-OFT

SI-01 Sheath Stripper is a tool designed to strip optic cables of sheath with least human efforts. Using Wire Clamp together, you can strip sheath from optical

Fiber Optic Longitudinal Slitter: Top Solutions

A Fiber Optic Longitudinal Slitter is a precision-engineered mechanical device designed to slit the outer jacket of fiber optic cables along their

Armored Fiber Optic Cable Stripping Tool SI-01,Longitudinal

Fiber Optic Cable TerminationCut Fiber Optic CableFiber Optic Drop CableFiber Optic Cable ToolsSplice Fiber Optic CableFiber Optic Cable CutterTerminating Fiber Optic CableFiber Optic Cable StriperFiber Optic Cable Clip ArtOptical cable longitudinal cable opener SI-01 optical cable stripping .. PTYCO AUA-F9 fiber optic stripper 8-30mm longitudinal and transverse ...Longitudinal stripping device for optical cable ribbon center beam tub .. ina Aluminum Fiber Optical Longitudinal Stripping Cutter Supplier ...Longitudinal stripping device for optical cable ribbon center beam tub .. rus fiber armored cable opener optical cable transverse longitudinal ...Sd5ea939134ca415e8672c89a8984a667x.jpgChina Aluminum Fiber Optical Longitudinal Stripping Cutter Supplier ...Longitudinal Cable Cutter High Carbon Steel Blade, Optical Cable ...Armored cable stripping knife longitudinal transverse cable opener ...Optical cable longitudinal cable opener fiber strippe CH-02 horizontal ...ACS-2 Armoured Cable Stripping Knives Longitudinal/Horizontal Optical ...Optical cable longitudinal cable opener fiber strippe CH-02 horizontal .. ina Aluminum Fiber Optical Longitudinal Stripping Cutter Supplier ...See all imagespilispark

Armored Fiber Optic Cable Stripping Tool Si

□Wide use□: This cable stripper can cut sheaths of various materials. Such as PVC, PE, steel armor sheath and non-metallic reinforced component fiber optic

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

Comprehensive Stripping Kit: Each unit includes the SI-01 cable opener along with two spare blades for continued maintenance and operation. The tool provides a clean cut through armored layers 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 splicing, cable prep, and FTTH.

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

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 optic performance.

1.5mm-3.3mm Longitudinal Stripping Tool for Fiber

The Longitudinal Stripping Tool is an efficient and indispensable tool for fiber optic cable termination. It easily strips the PVC cable jacket into two halves before

Fiber optic tool longitudinal beam tube loose tube stripper Cable ...

The longitudinal beam tube stripping for outdoor fiber optic cable cutover time. Open center beam tube outer diameter have four choices for the top and bottom of the open-sided beam tube opening, easy

Fiber Optic Cable Stripper, Horizontal Cutting & Longitudinal ...

Shop Fiber Optic Cable Stripper, Horizontal Cutting & Longitudinal Slitting Tool for 3.1x20mm Leather Wire, FTTH Drop Cable Stripping Tool with Adjustable Blade Depth. Free delivery on eligible orders

GYTA-4 4-core 8-core 12 core 24 core communication optical cable

Aluminum strip longitudinal cladding twisted type optical cable (GYTA)
Communication use of metal reinforced components, loose layer twisted filling type, aluminum polyethylene bonded sheath

Fiber Optic Cable Stripping Knife KMS-K Longitudinal Cable Cutter ...

Find many great new & used options and get the best deals for Fiber Optic Cable Stripping Knife KMS-K Longitudinal Cable Cutter Slitter at the best online prices at eBay! Free shipping for many products!

CH-02 Fiber Optic Stripper Longitudinal and Transverse Fiber Cable ...

Find many great new & used options and get the best deals for CH-02 Fiber Optic Stripper Longitudinal and Transverse Fiber Cable Cutter at the best online prices at eBay! Free shipping for many products!

Xi'an Fiber Optic Cable Supply FiberHome Outdoor Buried Fiber Optic ...

Aluminum strip longitudinal cladding twisted type optical cable (GYTA)
Communication use of metal reinforced components, loose sleeve layer twisted filling type, aluminum polyethylene bonded sheath

Portable Longitudinal Stripping Ribbon Cable Stripper 4.5-11mm Alloy ...

The cutter adopts a special super alloy,featuring a fine edge. Stripping tube diameter is 4.5/ 6 /7 /8 /11mm, the size of the diameter of wire stripping above it can be used. Uses the open style structure,

Cable Tube Slitter 4.5-11mm Ribbon Cable Stripper Fiber Optic Buffer ...

FTVOGUE Optical Cable Longitudinal Stripper Uses the open style structure, with five different sizes of the guide slot and a ten sharp blade, the diameter of 4.5/ 6 /7 /8 /11mm fiber optic bundle tube

Acoustically enhanced optical cables

One approach suggested was to design fiber optic cables based on a continuous geophone consisting of wrapping the optical fiber around an embedded longitudinal, acoustically reacting, swell-able

Fiber Optic Tool Kits | Termination, Splicing & FTTH

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