Stripping of 48-core optical cable



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

Stripping a 48-core optical cable requires progressive removal of the outer jacket, strength members, and individual fiber buffers using precision tools to avoid fiber damage.

Step-by-

Step Stripping Process1. Prepare the Work Area and Safety Measures Always wear safety glasses and work on a clean, well-lit surface. Dispose of fiber scraps properly to prevent injury or contamination.

2. Strip the Outer Jacket Use a precision cable jacket stripper suitable for the cable diameter. Carefully remove the outer sheath without nicking the aramid yarn or inner fibers.

For a 48-core loose tube cable, the jacket is typically thick and may require a rotary or ratcheting stripper. 3. Remove Strength Members After the jacket, cut and remove the aramid yarn or other strength members.

These fibers provide tensile strength, so avoid cutting or pulling on the optical fibers themselves. 4. Expose Individual Fibers For loose tube cables, each tube contains multiple fibers.

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Carefully open the tubes and separate the fibers. Use fiber strippers designed for the specific buffer diameter (commonly 250 µm for primary coating or 900 µm for tight buffers). Mechanical, thermal, or automated strippers can be used depending on throughput and operator skill.

5. Strip Fiber Coatings Remove the primary and secondary buffer coatings to expose the bare glass fiber. Ensure the stripper blade does not touch the glass to prevent scratches or nicks.

Strip lengths are typically 30–40 mm, but follow connector or splicer specifications. 6. Clean and Inspect Fibers After stripping, clean fibers with lint-free wipes and high-purity alcohol to remove coating residues.

Inspect fibers under a microscope for nicks or scratches before splicing or connectorization. 7. Cleaving and Termination Once stripped and cleaned, fibers can be cleaved for fusion splicing or prepared for connector termination.

For 48-core cables, consider using ribbon splicing or multi-fiber fusion splicers to handle multiple fibers efficiently.

Tools and Considerations

Handheld fiber strippers: Suitable for small-scale or field work. Heated or thermal strippers: Soften coatings for easier removal. Automated stripping machines: Provide consistent, repeatable results for high-volume production.

Blade maintenance: Keep cutting edges sharp to ensure clean cuts and prevent fiber damage. Progressive stripping: Always strip layers sequentially—jacket, strength members, buffers—to avoid damaging underlying fibers.

Best Practices

Strip no more than 50 mm at a time to reduce the risk of fiber damage. Use proper fiber handling techniques to prevent microbends or stress on the fibers. For high-count cables like 48-core, consider color-coded fibers or labeling to maintain organization during splicing or termination.

Inspect each fiber after stripping to ensure quality and minimize optical loss. By following these steps and using the appropriate tools, a 48-core optical cable can be stripped safely and efficiently, ensuring high-quality splicing or connectorization with minimal risk of fiber damage.

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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 Strip and Prepare Fibre Optic Cable for Termination: A ...

In this informative guide, we''ll walk you through the step-by-step process of stripping and preparing fibre optic cable for termination, covering techniques, tools, and best practices to help you

Fiber Strippers – tools, mechanical, thermal, chemical,

Fiber strippers are precision tools that reliably and cleanly remove a defined length of coating (often 30–40 mm) from a fiber end so that the bare glass is exposed

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 45degree angle to the fiber to reduce stress on the fiber.

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

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

Fiber optic tools, 1-48 core hot stripping wire

A professional fiber optic hot stripper designed for precise and efficient stripping of 1–48 core optical fibers. Delivers clean and accurate stripping for multi-core

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 Optic Termination Tools

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an optical fiber in preparation for connectorization. A fiber guide

Method for laser stripping of optical fiber and flat cable

This invention results from the realization that a laser can remove the protective layer (s) from the glass or fused silica optical fiber core and cladding more effectively and more reliably...

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24 Core and 48 Core Fiber Optic Cable

24 Core and 48 Core Fiber Optic Cable Fiber optic cable is a cable containing one or multiple optical fibers that are used to transmit the signal. The optical fiber

HES 48 Core Steel Armored Fiber Optic Cable OM3 50/125µ MultiMode |

HES 48 Core and HES 96 Core fiber optic cables are sold as 2000m reels. Features: OM3 MultiMode Design: With a 50/125µ core-core diameter, OM3 MultiMode fiber technology provides high

Fiber Optic Cable Core: Understanding Its Types and Uses

A 48-core Fiber cable is ideal for extremely high bandwidth connections. These are the cables that are used by large businesses, internet

HES 48 Core Steel Armored Fiber Optic Cable OM1 62.5/125µ

HES 48 Core Multiple Tube Steel Armored Fiber Optic Cable, OM1 62.5/125µ MultiMode. Provides high-capacity data transmission and long-lasting durability.

KKmoon Fiber Optical Thermal Stripper Rechargeable Heated Fiber Cable ...

Efficient Multitasking: This fiber optic stripper allows simultaneous stripping of up to 48 bare fibers, significantly speeding up workflow for fiber optic stripping. The tool handles ribbon cables, loose

HES 48 Core Steel Armored Fiber Optic Cable OM4 50/125µ MultiMode |

HES 48 Core Multiple Tube Steel Armored Fiber Optic Cable, OM4 50/125µ MultiMode. Suitable for high data traffic and large projects.

Used Fiber Optic Cable Stripper Cutter Tool Adjustable Blade For 2 To ...

Two-piece:SI-01 Longitudinal Opening Knife and Lateral tube cable slitterSI-01 Longitudinal Stripper for 2 core-288 core large number amoring fiber optic cable; Lateral tube stripper scope of application: 4

GYTA53 Fiber Optic Cable (Direct buried)

Deploy robust fiber networks underground with our GYTA53 Direct Buried Fiber Optic Cable. Featuring a Double Jacket (PE) and Double Armor (Aluminum + Steel) construction, this cable offers superior

How To Strip Fiber Optic Cable | Instructional

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a simple way to strip optical fiber.#instructional #fiberoptics #fiberF...

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