Stripping Method for Dual-Core Optical Cables

Overview

The Ultimate Optical Fiber Stripper Guide Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to ensure reliable netw.

Key Takeaways

Stripping dual-core optical cables requires careful, layer-by-layer removal of the jacket, aramid yarn, and buffer coatings to expose the fibers without causing damage.

Key Steps for Stripping Dual-

Core Optical Fiber

Identify Cable Layers: Dual-core optical cables typically have an outer jacket, aramid yarn for tensile strength, and individual fiber buffers (primary and secondary coatings) around each core. Each layer must be stripped progressively, not all at once, to avoid damaging the fibers underneath. Select the Right Tools: Use precision fiber strippers designed for the specific fiber and coating diameters.

Tools may be mechanical, thermal, or automated. Mechanical strippers remove coatings with matched blades, while thermal or heated tools soften the buffer for easier removal. Automated systems provide consistent, repeatable results with minimal operator skill.

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Strip the Outer Jacket: Carefully cut and remove the outer sheath to the required length, ensuring the aramid yarn and inner fibers remain intact. Avoid aggressive cutting or pulling, which can disturb the inner cores. Remove Aramid Yarn: Peel back or trim the aramid yarn carefully.

These fibers contribute to tensile strength, so avoid cutting or fraying them unnecessarily. Strip Fiber Buffers: Each fiber core has a primary and secondary buffer coating. Use a fiber buffer stripper to remove these coatings cleanly.

Ensure the cut edge is straight and free of jagged edges. The glass fiber itself must never be nicked or scratched, as even minor damage can lead to cracks and connection failure. Clean and Inspect: After stripping, clean the exposed fibers with lint-free wipes and high-purity alcohol to remove any residue.

Inspect under a microscope for scratches or nicks before proceeding to cleaving or connectorization. Optional Automated Stripping: For high-volume or precision applications, automated stripping units like the AutoStrip II can vaporize coatings cleanly, providing high-strength, debris-free fibers with controlled strip lengths.

Best Practices

Always match the stripper tool to the fiber diameter and coating type. Strip only the length required for termination to avoid weakening the fiber. Maintain sharp blades and clean tools to prevent jagged cuts.

Handle fibers gently to avoid microfractures that can compromise long-term reliability. Perform a quick bend test or microscopic inspection to ensure fiber integrity before splicing or connectorization. By following these steps and using the appropriate tools, dual-core optical cables can be stripped safely and efficiently, ensuring high-quality terminations and minimizing the risk of fiber damage.

Article Content

The Ultimate Optical Fiber Stripper Guide

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to ensure reliable network performance with top tools.

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.

Fiber Strippers – tools, mechanical, thermal, chemical, plasma,

For high-volume manufacturing environments, such as the production of fiber-optic patch cables or medical fiber probes, fully automated stripping systems are used.

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Laser-based methods of stripping fiber optic cables

One aspect of the disclosure is a method of stripping a fiber optic cable having a protective cover with an outer surface that surrounds at least one optical fiber and that has a cable...

Optical Fiber Strippers

Our range of optical fiber strippers extends from handy, pocket-sized tools to fully automated plasma-assisted stripping machines. In addition to a wide range of

Method for laser stripping of optical fiber and flat cable

This method allows stripping of the protective layers from single fibers and from multi-fiber ribbon cables. It also allows stripping of the protective layers at an end section of the cable...

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.

Laser Stripping | Optek Systems

Laser stripping is a highly flexible and repeatable process that offers selective and precise removal for clad/core ablation with the ability to remove short and long lengths in single or multiple locations, with

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 and matched blades ensure that the

(PDF) Investigation of cladding and coating stripping methods for ...

This study focuses on finding the cladding and coating stripping methods for four recent specialty optical fibers, namely: hard polymer-clad fiber, graded-index plastic optical fiber, copper/carbon-coated

Learning the Different Coating Stripping Methods

The cladding power stripper also referred to as the multimode optical power stripper is designed for amplifier applications and high power fiber laser. It is an ideal device for ASE, residual

Good stripping techniques for your fiber optic cable ...

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Without question, good stripping techniques in your fiber optic cable assembly process are imperative. What happens if you damage the fiber during this production step?

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

Introduction: Stripping and preparing fibre optic cables for termination is a critical step in the installation and maintenance of fibre optic networks. Properly stripping the cable and preparing

The Ultimate Optical Fiber Stripper Guide

Adjustable and Specialized Optical Fiber Stripper Models While most applications use standard fiber sizes, some projects may involve non-standard or

Method for laser stripping of optical fiber and flat cable

Method for laser stripping of optical fiber and flat cable Abstract This invention results from the realization that a laser can remove the protective layer (s) from the glass or fused silica optical fiber

Fusion Splicing Basics (Part 3): Methods, Practices and

The preparation process before inserting the fiber into the splicer is important. Let''s discuss fiber splicing methods, practices and testing.

Fiber Optics Stripping, Cleaving, Splicing, Recoating, Tapering

Fiber Optics Cleaving and Stripping Tools available from StockAMS Technologies offers the full range of must-have tools for field or production – including processing and preparation tools for several types

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.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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