

Methods for stripping indoor optical cables



Overview

Ultimate Guide: Fibre Optic Cable Stripping and Preparation In this informative guide, we'll walk you through the step-by-step process of stripping and prep.

Key Takeaways

Indoor optical cables can be stripped using mechanical, thermal, chemical, or laser-based methods, with careful attention to each layer to avoid damaging the fiber. Mechanical Stripping

Mechanical stripping is the most common method for indoor fiber optic cables. It involves using precision fiber strippers or cutting tools to remove the protective layers:

- **Outer Jacket:** Typically made of soft plastic, this layer can be stripped using wire strippers or specialized fiber cable strippers. Care must be taken not to damage the underlying aramid yarn, which provides tensile strength .
- **Aramid Yarn:** After removing the jacket, the aramid fibers are cut or pulled back carefully to expose the buffer layer without stressing the fiber .
- **Buffer Coating:** Precision fiber strippers with sharp-edged slots are used to remove the primary and secondary coatings, exposing the bare glass fiber. Tools like the FOS03 or CFS-2 strippers allow accurate removal of coatings without nicking the fiber .

- **Cleaning:** After stripping, the fiber end should be cleaned with alcohol wipes or a dedicated fiber cleaner to remove debris and residues .

Thermal and Chemical Methods

- **Thermal Stripping:** Some strippers use controlled heat to soften the polymer coating, making it easier to remove without mechanical stress. This is useful for delicate fibers or specialty coatings .

- **Chemical Stripping:** Certain coatings can be dissolved using chemical solvents. This method requires careful handling and proper ventilation to avoid damage to the fiber or health hazards .

Laser-Based Stripping

Laser stripping is an advanced, non-contact method suitable for precise removal of protective layers:

- A focused laser beam is directed onto the cable's protective cover to form grooves without reaching the optical fibers .
- The protective cover is then split and removed, exposing the fiber. This method is particularly useful for tight-buffered cables in harness assemblies, where precision and minimal stress are critical .

Best Practices

- Always work in a clean, well-lit environment to prevent contamination .
- Strip each layer progressively rather than attempting to remove multiple layers at once .
- Use tools appropriate for the fiber diameter and coating type to avoid nicking or breaking the fiber .
- Inspect the stripped fiber with a microscope or visual fault locator to ensure a clean, defect-free end before termination . By following these methods and precautions, indoor optical cables can be safely stripped, ensuring optimal performance and reliability in fiber optic networks.

Article Content

Ultimate Guide: Fibre Optic Cable Stripping and Preparation

In this informative guide, we'll walk you through the step-by-step process of stripping and preparing fibre optic cable

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Fiber Optic Connector Termination Overview It was not long ago that the proper methods used to terminate fiber optic connectors

Laser-based methods of stripping fiber optic cables

The method can further include opening the protective cover at the groove to form a split protective cover portion (114 S), and

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

Chemical Stripping Chemical stripping uses strong solvents or acids to remove optical fiber coatings. It is now rare in routine telecom

The FOA Reference For Fiber Optics-Installing Fiber Optic Cable

General Guidelines For Installing Fiber Optic Cable Fiber optic cable may be installed indoors or outdoors using several different

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Self-Supporting Indoor Drop Optical Cable One product commonly used to remove gel from fibers and tools (d"Gel) consists of

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Indoor fiber optic cable stripping In this informative guide, we'll walk you through the step-by-step process of stripping and preparing

Essential Tools for Stripping Fiber Cable: A Comprehensive Guide

Discover the importance of proper fiber cable stripping techniques and tools, including the Fusion Splicer. Learn how

Fiber stripping

Fibers must be stripped of all protective coatings prior to inserting into a connector. Mechanical stripping, by far the

Fiber U Lesson Plan: Basic Skills Lab, Remote

You have successfully completed this exercise when you have been able to strip the jacket and both buffer coating layers from the

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