

Stripping optical cables quickly and without damaging the fiber optic cable

Article Overview

Use precision fiber strippers, thermal or automated tools, and progressive layer removal to strip optical cables quickly without damaging the fiber.

Key Principles for Safe and Efficient Stripping

- o Progressive Layer Stripping Optical cables have multiple layers: outer jacket, strength members (e.g., aramid yarn), buffer coating, and the acrylate coating protecting the glass fiber. Each layer should be stripped individually rather than all at once to avoid accidental nicks or scratches on the fiber core, which can lead to cracks or signal loss over time .
- o Use Professional-Grade Strippers
- o Mechanical Strippers: Tools like FOS03 or CFS-2 hold the fiber in a slot and remove coatings precisely. They are ideal for 125um or 250um fibers and allow quick, accurate stripping without damaging the glass .
- o Thermal Strippers: These use heat to soften the coating, allowing it to be removed gently. Adjustable temperature and timing ensure the fiber is not stressed or scratched .
- o Automated Strippers: Devices like AFL Precision Strip are battery-powered and can strip coatings with minimal force, speeding up the process while maintaining high-quality results .
- o Maintain Tools and Technique Sharp, well-maintained blades are essential. Dull tools increase the risk of nicks. Always replace worn tools and follow manufacturer guidelines for blade depth and stripping length .
- o Testing for Damage After stripping, perform a 45-degree bend test on the fiber. If the fiber breaks at the stripped area, it indicates a nick or scratch. This allows early detection and re-stripping before deployment, preventing costly failures .
- o Ergonomics and Field Efficiency Handheld, ergonomic strippers reduce fatigue and improve speed. Battery-powered or palm-sized tools are ideal for fieldwork, allowing rapid, precise stripping with minimal effort .

Recommended Workflow

- o Strip the outer jacket first.
- o Remove strength members like aramid yarn carefully.
- o Strip the buffer coating using a precision or thermal stripper.
- o Inspect the fiber for nicks or scratches.
- o Perform a bend test if necessary.
- o Proceed to splicing or connectorization. By combining progressive stripping, professional tools, and careful inspection, you can achieve fast, reliable fiber stripping without compromising the integrity of the optical cable .



Stripping optical cables quickly and without damaging the fiber optic cable

Lesson 3: Fiber Optic Cable And Fiber Preparation Objectives: From this lesson you should learn: How to

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an

Strip fiber-optic cables without scratching or damaging them. These cable strippers have three nonmarring openings to handle

Introduction: Stripping and preparing fibre optic cables for termination is a critical step in the installation and

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Note the cable diameter and jacket thickness for each cable - Stripping cables and fibers is a delicate process.

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to

Different connectors and splice termination procedures are used for singlemode and multimode

Goal is to open cable and expose the fibers for splicing or termination without harming them. This involves stripping off the cable

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a

An Optical Fiber Stripper is arguably the most fundamental hand tool for any technician

Learn how to terminate fiber optic cable with connectors and splicing. Discover tools,

We have the right tool for every fiber and every cladding. Our range of optical fiber strippers extends from handy, pocket-sized tools

MSAT Fibre Stripping Tool is a tool that eliminates the struggle of stripping fibre by hand and allows easy access to the fibre beneath

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing. There are mechanical,

FIBER HANDLING, STRIPPING, CLEAVING AND COUPLING This application note addresses general handling of fibers from NKT



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