What is the tool used to strip optical cables called



Overview

Fiber and Cable Stripper – Types, Uses & Guide Also known as optical fiber cable strippers, they hold cable within a slot, squeeze their jaws to press thro.

Key Takeaways

Optical fiber cables are stripped using specialized mechanical, thermal, or chemical tools designed to remove protective coatings without damaging the glass core.

Mechanical Fiber Strippers

Mechanical fiber strippers are the most common tools used in the field. They feature precision-ground or laser-drilled holes that match the fiber's coating diameter, allowing technicians to remove the buffer and acrylate coatings cleanly. Standard three-notch strippers can handle most 125 µm cladding fibers with 250 µm coatings, while adjustable strippers allow customization for non-standard or legacy fibers.

These tools are essential for preparing fibers for fusion splicing or connector termination and prevent nicks or scratches that could cause signal loss or back reflections.

Thermal and Thermo-

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Mechanical Strippers

Thermal strippers use heat to soften the fiber's coating before removal. This method is particularly useful for delicate fibers or laboratory applications where minimal mechanical stress is required. Thermo-mechanical strippers combine heat with mechanical pulling to ensure precise and gentle stripping, often used in manufacturing or high-precision installations.

Specialized Strippers

Flat Drop Cable Strippers: Designed for FTTx installations, these tools remove the outer jacket of flat drop cables without damaging internal fibers or strength members. Plastic Optical Fiber (POF) Strippers: Tailored for fibers with larger or non-standard coatings, ensuring clean removal without cracking the fiber. Bare Fiber Grippers: Tools like the BFG1 provide a secure hold on the fiber during stripping, reducing the risk of microfractures caused by clamping or wrapping.

Chemical and Non-

Contact Methods

Some applications use chemical solvents or acids to strip coatings, while advanced non-contact methods like laser ablation or hot air can remove coatings without direct mechanical contact. These methods are typically used in specialized laboratory or industrial settings.

Additional Tools

Fiber cable cutting scissors and jacket strippers are often used alongside fiber strippers to remove outer sheaths and cut aramid yarns cleanly. Kits like the TSK1 include multiple blade sets and fiber guides for different fiber diameters, providing a complete solution for connectorization and splicing. In summary, choosing the correct stripping tool depends on the fiber type, coating thickness, and application, with mechanical, thermal, and specialized tools forming the core of fiber optic cable preparation.

Proper use ensures signal integrity and reliable network performance.

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Article Content

Fiber and Cable Stripper – Types, Uses & Guide

Also known as optical fiber cable strippers, they hold cable within a slot, squeeze their jaws to press through the coating, and slide the coating off the end of the cable.

Fiber Strippers – tools, mechanical, thermal, chemical,

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing. There are mechanical, thermal and non-contact

The Ultimate Optical Fiber Stripper Guide

At its core, an optical fiber stripper is a specialized tool engineered to precisely remove the protective polymer coatings from an optical fiber without

Top 7 Must-Have Tools for Fiber Optic Technicians

A Fiber Optic Stripper is a specialized tool used to remove the protective coatings and buffer materials from optical fibers without causing damage to the delicate glass core. It has blades that allow

Fiber Optic Termination Tools

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Guide to Fiber Optic Drop Cable

The buffer tube encapsulates the individual optical fibers, the fiberglass or steel strength members add rigidity and protection to the optical cable, and the outer jacket protects the entirety of

How to Terminate Fiber Optic Cable Fast and Easily

Fiber optic termination is a necessary step for installing a fiber optic network. It is a physical connection of a fiber optic cable to create a seamless connection between similar or

Computer Maintenance Tools: Hardware and Software List

The main computer hardware maintenance tools are pliers, screws and nut drivers, multimeters, tweezers, and cable clippers among others. They

Top 7 Must-Have Tools for Fiber Optic Technicians

A Jacket Remover is a specialized tool used to strip the protective outer jacket from a cable. Fiber optic cables consist of multiple layers, with the outer jacket serving

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.

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