What are the tools for stripping optical cables



Overview

Fiber and Cable Stripper – Types, Uses & GuideLearn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover their applicat.

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

Learn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover their applications in fiber splicing, cable prep, and FTTH.

Fiber Strippers – tools, mechanical, thermal, chemical,

The main types include mechanical handheld tools with precise blades, thermo-mechanical strippers that use heat to soften the coating, non-contact methods

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.

Fiber Optic Stripping Tools – trueCABLE

Our fiber optic stripping tools are meticulously designed for clean, consistent results without damaging delicate fibers. With reliable performance and rugged

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Trusted since 1958, Jonard''s Fiber Stripping Tool is a must-have for all fiber technicians. Shop Jonard''s popular collection of fiber optic cable stripper and tools now.

Fiber Cable Stripping Tools: A Comprehensive Guide

Fiber cable stripping tools are essential for anyone working with fiber optics. Understanding the different types of tools, their applications, and best practices is crucial for ensuring successful installations and

Fiber Optic Cable Stripping Tools and Equipment

Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers to ensure optimal fiber otic performance.

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Tutorial Passive Fiber Optics, Part 13: Fiber Accessories and Tools

Tutorial on passive fiber optics. Part 13 discusses fiber accessories and tools for stripping, cleaving and splicing of fibers, fiber connectors, adapters and inspection equipment.

Armored Cable Stripper 8–30mm for FTTH Fiber Optic

Versatile Cable Stripping Capability: This Transverse Armoured Cable Stripper is a versatile cutting tool designed for a wide range of cables, including armored fiber optic cables, optical cables, wires, and

The Complete Guide to Fiber Optic Tools: Splicing, Cleaving, and ...

3.1 Professional Fiber Optic Strippers A Weunion high-precision stripper is engineered to remove the three distinct layers of a fiber cable: the outer 3mm jacket, the 900µm buffer, and the

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How Anyone Can Splice Fiber Optic Cable | BroadbandSearch

For those curious about the physical limits of these cables, check out how long fiber optic cables last to see the long-term benefits of a quality splice. What are the Common Reasons to Splice

The Essentials of Fibre Optic Cable Training: A Clear Guide for ...

Fibre optic cable training is essential for anyone looking to work with modern communication networks, as these cables form the backbone of today''s internet and

Best Fiber Optic Cable Cutters for Precise, Durable Prep in the Field

This 9-in-1 stripper tool consolidates multiple functions into one compact unit. It covers stripping, cutting, and cleaning with a design that suits technicians who value tool efficiency and

Fiber Optic Cable Stripper with Three Size Holes

This Fibre Optic Cable Stripper is an essential tool for professionals and technicians working with optical fibre cables. Designed for precision and ease of use, this stripper features three different sized holes,

Cable Tools Market in Japan | Report

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Japan''s cable tools market sits at the intersection of the country''s electronics, electrical equipment, and technology supply chains, serving a broad base of OEMs, system integrators,

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