

Article Overview

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 um cladding fibers with 250 um 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-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

- o 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 .
- o Plastic Optical Fiber (POF) Strippers: Tailored for fibers with larger or non-standard coatings, ensuring clean removal without cracking the fiber .
- o 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



Tools for Quickly Stripping Optical Cables

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 .

Fiberoptic buffer tube stripper for up to 3.1 mm tubes. Adjustable blades can be set for any depth to help

Ripley professional grade Fiber Optic Cable Tools easily strip, cut, connect and inspect various fiber optic cables without damaging

Fiber-Life offers a variety of fiber strippers, each designed to play a crucial role in the fiber optic cable

45-164 Fiber Optic Stripper 6.4 -14.3mm Strips round cable jackets up to 6.4-14.3mm in diameter Adjustable blade depth settings

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

Fiber optic termination tool kit with fiber optic Cold Welding cleaver and 3-port Fiber optic stripper FTTH Fiber optic cable stripping

FiberShack - 3 Hole Fiber Stripper Tool with 6" TPR Handle - Fiber Optic Stripper includes 1.5mm Hex

Our fiber optic stripping tools are meticulously designed for clean, consistent results without damaging

Learn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover

Achieve precise stripping of fibre optic cables with the Fibre Optical Precision Stripping Tool. Ideal for

Fiber Optic Cutting Tools Precision cutting is critical in fiber optic work, and our tools are built to excel

A range of fibre optic tools used in FTTP and NBN FTTH work, including fibre strippers, drop cable slitters, and installation equipment.

Fiber & Cable Preparation Tools Various Hand tools for Stripping, Cutting, Crimping, Slitting, and Scribing fiber optic cable for Cable



Tools for Quickly Stripping Optical Cables

Jonard Tools manufactures a large range of fiber optic stripping tools specifically designed for technicians in the fiber optics industry.

Fiber-Optic Cable Strippers Strip fiber-optic cables without scratching or damaging them. These cable strippers have three

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

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