

Article Overview

Optical fibers are stripped using mechanical, thermal, plasma-assisted, and specialized hand tools designed to remove coatings without damaging the glass core.

Mechanical Fiber Strippers

Mechanical strippers are the most common tools for fiber preparation. They feature precision-ground or laser-drilled holes that match the fiber's coating diameter, allowing the technician to remove the polymer coating cleanly. These tools are available in handheld pliers-style strippers for standard fibers (125 um cladding with 250 um coating) and for tight-buffered fibers (900 um) or plastic optical fibers. Multi-notch designs allow stripping of different layers, such as the primary coating, secondary coating, or outer jacket, in a single tool operation .

Thermal Fiber Strippers

Thermal strippers use controlled heat to soften the fiber coating, enabling gentle removal without mechanical stress. They are particularly useful for sensitive fibers or laboratory applications where precision is critical. Adjustable temperature and timing settings allow customization for different coating materials, such as acrylate, silicone, or polyimide .

Plasma-Assisted and Automated Strippers

For high-volume or specialized applications, plasma-assisted stripping machines remove coatings up to 1200 um in diameter without contact, preserving fiber strength. Fully automated units can perform end stripping or window stripping for fiber Bragg gratings and other precision tasks, eliminating the need for chemical stripping .

Specialized Hand Tools

- o Adjustable optical fiber strippers allow manual setting of blade diameter for non-standard or legacy fibers.
- o Flat drop cable strippers are designed for FTTx installations, efficiently removing outer jackets without damaging internal fibers or strength members .
- o Fiber buffer stripping kits include multiple blade sets, fiber guides, and grippers to ensure consistent, safe stripping for connectorization .

Best Practices

Using the correct tool is essential to avoid nicks, scratches, or stress fractures on the fiber, which can cause



Special tools for stripping optical fibers

signal loss or connection failure. Hand tools are ideal for fieldwork, while thermal or automated systems are preferred in laboratory or production environments .

In summary, the choice of fiber stripping tool depends on fiber type, coating material, diameter, and application, ranging from simple mechanical pliers to advanced thermal or plasma-assisted systems for high-precision or high-volume operations.

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

Fiber strippers and other fiber optic stripping tools with which you prepare your fibers for splicing. Thermal

Our range of optical fiber strippers extends from handy, pocket-sized tools to fully automated plasma

Cut and strip fiber-optic cable. 2 Pieces-- 2-piece kits include a wire cutter with high-carbon stainless steel blades that are strong

Features Standard Fiber Strippers in a Variety of Sizes The F-STR-152, -175, -203 and -305 Fiber Coating

3SAE Technologies is a leading designer and manufacturer of high-performance fiber optic strippers and fiber stripping tools. Our

The global leader in fiber optic tools, Jonard has been trusted since 1958. Shop now for fiber tools such as strippers, duct cutters,

Paladin Tools FTK-B Fiber Optic Tool Kit by Tempo Communications The Paladin Tools FTK-B Fiber Optic

Vytran Tight Buffer Stripping Tool: Used to Remove Tight Buffers Without Cutting the Coating, for Ø900 µm

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

Fiber Optics Cleaving and Stripping Tools available from StockAMS Technologies offers the full range of must-have tools for field or

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

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

Special tools for stripping optical fibers

3 Hole Fiber Optic Stripper Three hole design efficiently removes 1.6 mm to 3 mm fiber jackets & buffers

Stripping Tools When stripping fiber optic cable, a professional quality stripping tool makes your job easier by providing a clean cut. A

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

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