

High-precision fiber strippers for surveillance



Overview

The AFL Precision Strip Tool is a fast, simple, and accurate solution for stripping fiber without damage.

Key Takeaways

High-precision fiber strippers are specialized tools designed to remove coatings from optical fibers cleanly and accurately, essential for sensitive applications like surveillance. Types of Fiber Strippers

Mechanical Strippers: These use precision blades to remove fiber coatings without nicking or scratching the glass. They are suitable for standard telecommunication fibers (125 μm cladding) and specialty fibers with thinner coatings, including tight buffers and larger jackets. Mechanical strippers are often handheld and factory-calibrated for consistent performance, making them reliable for field or lab use.

Thermal Strippers: These use controlled heat to soften or vaporize the fiber coating. Adjustable temperature and timing settings allow precise stripping of various coating types, including acrylate, polyimide, and PVC. Thermal strippers are ideal for delicate fibers where mechanical stress must be minimized.

Non-Contact / Automated Strippers: Advanced systems, such as the AutoStrip II, employ chemical-free, high-strength methods like Burst™ Technology to vaporize coatings mid-span or at fiber ends. These systems provide ultra-clean stripping, high first-pass yield, and integrated tensile testing to ensure fiber integrity. They are particularly suited for high-precision surveillance fibers where debris-free, repeatable results are critical.

Key Features for Surveillance Applications

- **Precision and Cleanliness:** Tools must expose the bare fiber without scratches or debris, maintaining optical performance. Automated systems achieve debris-free stripping at 400x magnification .
- **Versatility:** Adjustable or diameter-specific strippers accommodate various fiber coatings, including acrylate, polyimide, carbon, and gold .
- **Chemical-Free Operation:** Many modern strippers eliminate the need for solvents, reducing contamination risk and improving safety .
- **High Strength and Reliability:** Integrated tensile testing ensures stripped fibers maintain mechanical integrity, crucial for surveillance networks .
- **Automation and Repeatability:** Automated units allow precise control over strip length, temperature, and speed, ensuring consistent results across multiple fibers .

Recommended Options

- **F-STR Series (Newport):** Mechanical strippers for standard and specialty fibers, capable of removing multiple coating layers with minimal risk of fiber damage .
- **AutoStrip II (3SAE Technologies):** Automated, chemical-free system for mid-span window stripping and end stripping, offering adjustable parameters and high-strength fiber handling .
- **Diameter-Adjustable Thermal Strippers:** Provide flexibility for various fiber diameters and coatings, ideal for specialized surveillance fibers . For surveillance applications, selecting a non-contact or automated high-precision stripper ensures maximum fiber integrity, repeatability, and minimal contamination, which are critical for maintaining signal quality and reliability in sensitive optical networks.

Article Content

AFL Precision Strip Tool: Fast, Simple, and Accurate F | AFL Australia

The AFL Precision Strip Tool is a fast, simple, and accurate solution for stripping fiber without damage. It is battery-powered and

Precision Fiber Optic Stripper (180

Designed for precision fiber optic stripping, this tool is perfect for stripping the 180 - 330 micron acrylate coating to expose the 125

Amazon : Fiber Cleaver

Optical Fiber Cleaver, High Precision FTTH Fiber Optic Cutter with 16 Cleave Positions & Blade Life up to 48,000 Cuts, for 0.25mm,

Fiber Stripping Tools

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

TAWAA FC-30 High-precision fiber cleaver, Fiber Optic Cutting

FC-30 Fiber Optic Cleaver with Real Tungsten Steel Blade This fiber optic cleaver uses tungsten steel blade, while tungsten steel

Handheld & High Precision Fiber Cleavers by AFL, FITELE, Corning

Field score & snap cleavers (multimode fiber), one-step high precision cleavers (single mode fiber) from FITELE, AFL Fujikura,

Strippers

Fiber Instrument Sales stocks the Strippers to support professional fiber optic installation, testing, and network infrastructure

Three Hole Fiber Optic Stripper, High Precision, Fiber Optic tool Three ...

Three Hole Fiber Optic Stripper, High Precision, Fiber Optic tool Three-port stripper line for optical stripper of FTTH tool With

Professional Fiberoptic Stripper: Precision Engineering for Superior ...

High-precision fiberoptic stripper featuring multiple stripping holes, ergonomic design, and durable construction for optimal fiber optic

Stripping Cleaning and Fiber Prep Automation Products

AFL's advanced Stripping, Cleaning, and Fiber Prep Automation solutions for fusion splicing. Our products ensure efficient, precise

Stripping | Precision Fiber Products, Inc.

Choose precision fiber optic stripping tools for telecom, broadband, data communication, and fiber network applications across the

Fiber Stripper

Mechanical fiber strippers for Large Diameter Fibers (LDF) for removing various coating materials from windows and fiber ends. Here

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://coetzerinvestments.co.za>

Technical inquiry: <https://coetzerinvestments.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

