

Article Overview

Automated thermal and plasma-based fiber strippers offer the fastest, chemical-free stripping of optical fibers with high precision and minimal damage.

Automated Thermal Stripping

Automated systems like the AutoStrip II use patented Burst Technology(TM) to instantly vaporize fiber coatings, achieving extremely fast mid-span or window stripping without chemicals. These systems handle acrylate coatings up to 1,000 um and fiber cladding from 125 to 400 um, with pulling speeds of 20-100 mm/min. The process produces clean, debris-free fibers at high strength, with built-in microprocessor control for repeatability and high production yield .

Handheld Thermal Strippers

For field applications, handheld tools such as AFL's Precision Strip Tool provide rapid stripping of coated fibers. This battery-powered device uses an integral heating element to soften and remove coatings like 900 um buffers in 5-8 seconds, requiring minimal force and ensuring no fiber damage. It is portable, ergonomic, and ideal for splicing or maintenance tasks .

Plasma-Based Stripping

The GPST-1100 Gliding-Plasma Stripper employs non-contact plasma technology to remove coatings cleanly and efficiently. It supports both end-stripping and window-stripping, works on multiple fibers simultaneously, and handles tough coatings such as polyimide or carbon. Plasma stripping eliminates risks associated with mechanical or chemical methods and provides precise, sharp-edged results .

Mechanical Stripping

Traditional mechanical strippers are slower and require careful handling to avoid nicking the fiber. They are suitable for standard telecommunication fibers but are generally outpaced by thermal or plasma-based methods in speed and consistency .

Summary

- o Fastest stripping: Automated thermal systems (AutoStrip II) and plasma-based units (GPST-1100)
- o Field-friendly fast option: Handheld thermal strippers (AFL Precision Strip Tool)
- o Advantages: Chemical-free, high precision, minimal fiber damage, suitable for high-volume or delicate fibers

Quick stripping of optical fiber

o Considerations: Fiber type, coating material, and required strip length influence tool selection. For applications requiring maximum speed and repeatability, automated thermal or plasma-based strippers are the preferred choice, while handheld thermal tools offer a fast, portable solution for fieldwork.

Fiber Optic Connector Termination Overview It was not long ago that the proper methods used to terminate fiber optic connectors

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

FTTH optical fiber tool kit with 36000 cutter FC-6S and optical fiber drop cable optical fiber stripper CFS-3 stainless steel Adjustable

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an

Fiber-Life offers a variety of fiber strippers, each designed to play a crucial role in the fiber optic cable splicing process. A high-quality

Good fiber optic stripping techniques in your cable assembly process are crucial. See best

Good fiber optic stripping techniques in your cable assembly process are crucial. See best practices for how to strip

Whether it is indoor or outdoor fiber-optic (FO) cable, using a step-by-step approach reduces the chance of fiber damage while

AutoStrip II Window Stripping Unit Automated, Mid-span; Window Strip Length 2-150 mm; Fiber Coating Diameter $\leq 1,000 \text{ }\mu\text{m}$; Fiber

When performing a fusion splice, the optical fiber must be stripped down to the bare glass.

I am stripping two 144F loose tube cables and one 48F loose tube cable. Please like,

The FOS03Y Fiber Optic Stripper is engineered for field technicians and fiber optic installers

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

Quick stripping of optical fiber

In this guide, we cover the basics of fiber optic splicing, how to perform splicing using two different methods, and finally some best

Learn how to terminate fiber optic cable with connectors and splicing. Discover tools,

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