

Fiber Optic Stripper Single Mode



Overview

Choose from our selection of single mode OS2 wire and cable strippers in a wide range of styles and sizes.

Key Takeaways

A single-mode fiber optic stripper is a precision tool used to remove the protective coating and buffer from single-mode optical fibers, preparing them for splicing or connectorization. Purpose and Function

Single-mode fiber optic strippers are designed to strip the outer jacket, buffer, or coating from optical fibers without damaging the delicate glass core, which is typically 9 microns in diameter for single-mode fibers. Proper stripping is essential for achieving low-loss splices and reliable connector terminations.

Types of Strippers

- **Mechanical Strippers:** These use precision blades and notches to remove coatings. They often feature multiple openings to accommodate different fiber diameters, such as 250 μm primary coating and 600–900 μm buffer diameters. Some models include adjustable stops to control the strip length and non-marring surfaces to prevent fiber damage.
- **Thermal Strippers:** These use controlled heat to soften and remove coatings gently, ideal for high-strength fibers or fibers with thick coatings. Thermal strippers can be manual or fully automated, with adjustable temperature and timing for precise stripping.

- **Pocket-Sized or Field Strippers:** Compact tools designed for portability, often including wire cutters, fiber jacket strippers, and cleaning wipes for optical surfaces .

- **Kits and Multi-Tool Sets:** Comprehensive kits may include multiple strippers, pliers, screwdrivers, and fiber grippers to support a wide range of fiber diameters and field applications .

Key Features to Consider

- **Compatibility with Fiber Diameter:** Ensure the stripper matches the fiber's coating and buffer sizes (e.g., 250 μm coating, 600–900 μm buffer), .

- **Precision and Safety:** Tools with fiber guides and color-coded blades help maintain consistent stripping without microfractures .

- **Ease of Use:** Adjustable stops, ergonomic handles, and compact designs improve efficiency in tight spaces .

- **Application Environment:** Mechanical strippers are suitable for field and lab use, while thermal or automated strippers are preferred for production environments requiring high throughput and minimal fiber stress .

Popular Brands and Models

- **McMaster-Carr:** Offers single-mode OS2 wire and cable strippers with multiple openings and adjustable stops for precise stripping .

- **Thorlabs:** Provides fiber buffer stripping tools with fiber guides, color-coded blades, and optional grippers for secure handling .

- **Miller FO 103-S Series:** Compact single-hole design for efficient buffer coat stripping, suitable for engineers in field or lab settings .

- **LASER COMPONENTS:** Offers mechanical, thermal, and automated stripping solutions for laboratory and production applications . Using the correct single-mode fiber optic stripper ensures clean, precise removal of coatings, which is critical for maintaining fiber integrity, minimizing signal loss, and achieving reliable splices or connector terminations.

Article Content

Single Mode OS2 Wire and Cable Strippers | McMaster-Carr

Choose from our selection of single mode OS2 wire and cable strippers in a wide range of styles and sizes. Same and Next Day

Fiber-Optic Strippers | McMaster-Carr

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Single Mode OS2 Wire and Cable Strippers | McMaster-Carr

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

Fiber-Optic Strippers | McMaster-Carr

Compact Fiber-Optic Cable Strippers Small enough to fit in your pocket, take these strippers with you to remove the insulation from

Stripping Tools

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

Fiber Optic Tools

Our fiber optic tools consist of all the products you need to terminate both Multimode and Single mode fiber optic cable assemblies.

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

Precision Strip Tool AFL's Precision Strip Tool is a fast, simple solution for stripping fiber without damage.

Fiber Stripping Tools

Jonard Tools manufactures more than a dozen fiber optic stripping tools that will suit a broad range of fiber optic cabling. Fiber

Amazon : Fiber Termination Kit

Find professional-grade fiber optic termination kits equipped with visual fault locators, strippers, and precision tools for network setup.

Miller® 103-S Series Fiber Optic Jacket Removal Device

The only fiber stripper with stripping holes produced by the precise and repeatable wire EDM process is the Miller® FO 103 Series of

How to Choose the Right Fiber Stripper for Your Fiber Optic Cables?

Discover the critical role of fiber strippers in maintaining cable integrity, splicing quality, and minimizing signal loss.

Fiber Strippers – tools, mechanical, thermal, chemical, plasma,

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing. There are mechanical,

Cladding Mode Strippers – high-power fiber lasers and amplifiers, fiber ...

Cladding mode strippers are devices which can remove light from a fiber cladding, so that only light in the fiber core remains.

Stripping Tools

Our fiber strippers provide a reliable way for you to remove the buffer from an optical fiber. We have one of the largest varieties of

MECCANIXITY Single Hole Fiber Optic Stripper, 125um-250um

About this item The mini fiber optic stripper can be used to strip various types of single-mode and multi-mode fiber optic cables for

Fiber Strippers – tools, mechanical, thermal, chemical,

It is used for fast and chemical-free fiber preparation of acrylate-based fiber coatings and meets the highest

Cladding Mode Strippers – high-power fiber lasers and amplifiers, fiber ...

A single-mode fiber may be used as a kind of mode cleaner. The desired light is transmitted through the fiber core, and any other

Single Fiber Stripper SS05 | Telecommunication Systems ...

SS05 can strip two 250um coated optical fibers simultaneously. It can contribute to reducing the overall time required for fusion

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

