

Applications of Optical Cable Strippers



Overview

Fiber strippers are precision tools that remove a coating from a fiber before connectorization or splicing. There are mechanical, thermal and non-contact strippers.

Key Takeaways

Optical cable strippers are essential tools for preparing fiber optic cables by removing protective coatings and jackets to enable splicing, connectorization, and precise fiber processing.

Fiber Preparation and Splicing

Optical cable strippers are primarily used to remove polymer coatings from optical fibers, exposing the bare glass for splicing or connectorization without damaging the fiber itself. This is critical in telecommunications and data networks, where even microscopic scratches can cause signal loss or back reflection. Strippers can handle standard telecommunication fibers (125 μm glass with 250 μm coating) as well as specialty fibers with thinner coatings or tight buffers.

Connectorization

In connector installation, strippers are used to prepare the fiber end by removing the buffer or jacket to the precise length required for proper connector fit. Tools often include fiber guides and color-coded blades to ensure consistent stripping lengths and diameters, which is essential for high-density connectors in data centers or FTTH (Fiber to the Home) applications.

Cable Jacket and Armor Removal

Some optical cable strippers are designed for larger cables, including armored or multi-layered cables. These tools can slit outer sheaths, polyethylene jackets, or metallic armor in one pass, facilitating mid-span preparation and installation of armored fiber optic feeders. This is particularly useful in field installations where cables must be prepared quickly and safely.

Laboratory and Production Use

Mechanical, thermal, and plasma-assisted strippers are used in laboratory and production environments for precise fiber processing. Thermal and plasma-assisted strippers allow non-contact removal of coatings, which is ideal for high-strength splices or delicate fibers, ensuring the fiber's tensile strength is maintained. Automated systems can perform window stripping or end stripping for high-volume production.

Field and Multi-

Application Tools Multi-port or all-in-one strippers are designed for versatile field use, accommodating a range of fiber diameters and cable types, from 250 µm bare fibers to 3 mm tight-buffered cables. These tools improve efficiency in confined spaces, such as aerial installations, underground vaults, or crowded data center racks, by reducing the need to carry multiple specialized strippers.

Specialized Applications

Fiber Bragg gratings: Window stripping in the middle of the fiber for sensor or grating fabrication. **Plastic optical fibers (POF):** Strippers adapted for polymer fibers used in short-distance or consumer applications. **High-precision terminations:** Ensuring consistent stripping lengths and diameters for minimal insertion loss in high-speed networks.

In summary, optical cable strippers are versatile tools used across telecommunications, data centers, laboratory research, and field installations to prepare fibers and cables for splicing, connectorization, and specialized applications, ensuring precision, efficiency, and fiber integrity.

Article Content

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, thermal and non-contact strippers.

Fiber and Cable Stripper – Types, Uses & Guide

Learn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover their applications in fiber splicing, cable prep, and FTTH.

The Ultimate Optical Fiber Stripper Guide

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to ensure reliable network performance with top tools.

Fiber Cable Stripping Tools: A Comprehensive Guide

Fiber cable stripping tools are essential for anyone working with fiber optics. Understanding the different types of tools, their applications, and best practices is crucial for ensuring successful installations and

Fiber Stripper

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

Flyriver: Fiber Optic Strippers: A Comprehensive Guide

This guide explores the various types of fiber optic strippers, their applications, and the crucial techniques for their proper use. We'll delve into the importance of careful stripping, common

Fiber Optic Tools: A Professional Guide to Installation, Splicing, and ...

What Are Fiber Optic Tools? Fiber optic tools are specialized instruments designed for installing, terminating, splicing, testing, and maintaining fiber optic cables. Unlike copper cabling,

The Role And Importance Of Fiber Optic Strippers-

In conclusion, fiber optic strippers play a crucial role in the preparation, maintenance, and optimization of fiber optic networks. Their precision, versatility, and efficiency contribute significantly

trueCABLE's Fiber Optic Cable Strippers: The Essential Tool for Fiber

The purpose of fiber optic cable strippers is to remove any plastic protective coatings from the fiber optical strand assembly prior to cleaving, connector termination, or in-line splicing.

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Fiber Optic Tool Kits | Termination, Splicing & FTTH

Professional Fiber Optic Tool Kits for field termination and splicing. Rugged hard-shell cases containing precision fiber strippers, cleavers, and testing tools for

Armored Cable Stripper 8–30mm for FTTH Fiber Optic

Wide Application: This wire stripper is a professional cutting tool for armored fiber optic cable sheaths, which can be used for armored fiber optic cables, optical cables, wires, coaxial cables, and other

Fiber Optic Cable Types: Single-Mode, Multimode, and Beyond – A ...

Selecting a fiber optic cable requires balancing application needs (distance, speed, environment) with cost. For short-reach, high-density environments (like data centers), multimode

Fiber Optic Stripper & Shear Kit

Product Name: Ripley® Miller MA03-7006 Advanced Cable Prep & Fiber Termination Kit with FO 103S Fiber Stripper & MB04-7000 Drop Cable Slitter - Durable Pouch

How To Splice Fiber Optic Cables?

Fiber optic cables have revolutionized the way we transmit data, offering high-speed and reliable communication over long distances. One of the critical processes in installing and

What Is ADSS Cable? Complete Guide to Self

For utilities operating in high-voltage environments, ADSS fiber optic cable offers a practical solution for establishing long-distance communication

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