

Self-supporting optical cable stripping tool

Article Overview

Self-supporting optical cable stripping tools are specialized devices designed to safely remove jackets, aramid yarn, and buffer coatings from aerial and ADSS fiber optic cables without damaging the fibers.

Types of Stripping Tools

Mechanical Fiber Strippers: These are handheld tools with precision blades for removing coatings and jackets from single fibers or fiber ribbons. They often include fiber guides and color-coded blades to match different fiber diameters, ensuring consistent and safe stripping for connectorization or splicing (Thorlabs) . **Thermal Fiber Strippers:** These tools use controlled heat to remove cladding and buffer coatings gently. Adjustable temperature and timing settings allow precise stripping without mechanical stress, making them ideal for high-strength splices and delicate fibers (Laser Components) . **Automated and Plasma-Assisted Strippers:** Fully automated devices can strip large-diameter fibers or cable windows without contact, using plasma technology. These tools are suitable for laboratory, production, or field applications where high throughput and fiber integrity are critical (Laser Components) .

Features for Self-Supporting Cables

- o **Jacket and Aramid Yarn Removal:** Tools must handle tough outer jackets and aramid yarn layers typical in self-supporting aerial cables (Fiber Optic Center) .
- o **Fiber Protection:** Grippers or textured rubber holders prevent microfractures during stripping, maintaining fiber strength (Thorlabs) .
- o **Versatility:** Many kits include multiple blade sets and fiber guides to accommodate different fiber diameters and coatings, from 250 um single fibers to 1200 um large-diameter fibers (Laser Components) .

Recommended Tool Kits

- o **FTTX Flat Drop End Prep Kit:** Simplifies field connector installation on flat drop fibers, suitable for aerial and self-supporting cables (Ripley Tools) .
- o **Thorlabs TSK1 Fiber Stripping Kit:** Includes various blade sets, fiber guides, and a fiber jacket stripper in a compact case for field or lab use (Thorlabs) .
- o **Fiber Optic Cable Stripping Tools from Fiber Optic Center:** Offers a range of pliers, mechanical, and thermal strippers for jackets, aramid yarn, and buffers (Fiber Optic Center) .

Conclusion

For self-supporting optical cables, mechanical, thermal, and automated stripping tools provide safe, precise,



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and efficient preparation of fibers for splicing or connectorization. Selecting the right tool depends on fiber diameter, coating type, and field versus laboratory use, with kits often including multiple guides and blades to ensure versatility and fiber protection.

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

Fiber optic termination tool kit with fiber optic Cold Welding cleaver and 3-port Fiber optic stripper FTTH Fiber optic cable stripping

FO 103-S Series from Miller®; is an innovative, industry-leading tool for today's engineers. Find your closest

Fiber optic tools are used for fiber optic cable installation, termination and maintenance works of lineworkers, powerline technician

A cable preparation tool for fiber optic installations, the FOC-200 fiber optic cable stripping tool will remove

Fiberoptic buffer tube stripper for up to 3.1 mm tubes. Adjustable blades can be set for any depth to help

Designed for field work, this automated stripper performs coated fiber stripping tasks quickly and precisely,

Since 1967, WEICON has been developing and producing various types of stripping tools. The high-quality tools are T&V tested,

?Blade?As the core component of Optical Fiber Cleaver, the blade is made of tungsten steel material. Its

About this item BASIC SPECIFICATIONS: Optical longitudinal cable bundle stripper, including 2 replacement blades,

MSAT5 Mid-Span Access Tool is designed to open fiber jackets and loose buffer tubes. The blade is made of super alloy for accurate

Achieve clean, damage-free strips every time with our professional Fiber Optic Cable Strippers and Wire Stripping Pliers. Featuring

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FS offers a range of cable tools, such as cable stripper, cable splitter, cable cutter for fiber or copper cables

Fiber-Life offers a variety of fiber strippers, each designed to play a crucial role in the fiber optic cable

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