

How long should fiber optic strippers be used to strip fibers



Overview

Stripping Techniques For Your Fiber Optic Cable Assembly Process. This is the “golden rule” in stripping. Whether you use hand tools or automated strippers.

Key Takeaways

Fiber optic strippers typically remove 30–40 mm of coating, with a maximum of about 50 mm to avoid fiber damage.

Standard Strip Lengths

For most telecommunication fibers, the coating is removed over a length of 30–40 mm to expose the bare glass for splicing or connectorization. This length ensures sufficient bare fiber for proper fusion splicing or connector termination while minimizing the risk of damaging the fiber. In some cases, the required strip length may be specified by the manufacturer of the fusion splicer or connector.

Maximum Strip Length

Stripping more than approximately 50 mm at a time is generally discouraged, as longer exposed sections increase the risk of bending, nicking, or breaking the fiber. For specialty applications, such as creating fiber Bragg gratings or “window strip” operations, shorter or intermediate sections may be stripped in the middle of the fiber rather than at the end.



Layered Cable Considerations

When working with multi-layer cables, each layer—outer jacket, aramid yarn, buffer, and acrylate coating—must be stripped individually and progressively. The stripping tool should match the specific layer diameter to avoid damaging underlying fibers. For example, a 250 μm primary buffer is typically stripped down to the 125 μm glass cladding using precision fiber strippers.

Tool Selection and Technique

Use precision fiber strippers with calibrated holes or notches for each coating layer. Avoid generic wire strippers or blades, which can nick or scratch the glass. Perform a straight axial pull without twisting to remove the coating cleanly.

Inspect the stripped fiber for nicks or scratches before cleaving or splicing.

Special Methods

For non-standard fibers or high-reliability applications, thermal or chemical strippers can be used safely, but mechanical stripping remains the most common method. Always clean the fiber after stripping to remove any residue before cleaving or connectorization. In summary, strip 30–40 mm for standard fibers, avoid exceeding 50 mm, and use the correct tool and technique for each layer to ensure fiber integrity and optimal performance.

Article Content

Stripping Techniques For Your Fiber Optic Cable Assembly Process ...

This is the “golden rule” in stripping. Whether you use hand tools or automated stripping machines, in time, the cutting edge will wear. A dull cutting edge can bend and stress the fiber. Do

Fiber U Lesson Plan: Basic Skills Lab, Remote

Use the fiber strippers to strip ~1" (25mm) from the end of the fiber in 3 steps, about 1/4-3/8" (6-8mm) at a time. Hold the stripper at a 45degree angle to the fiber to reduce stress on the fiber.

How to Strip and Prepare Fibre Optic Cable for Termination: A ...

In this informative guide, we'll walk you through the step-by-step process of stripping and preparing fibre optic cable for termination, covering techniques, tools, and best practices to help you

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

Fiber strippers are precision tools that reliably and cleanly remove a defined length of coating (often 30–40 mm) from a fiber end so that the bare glass is exposed without scratching or nicking it.

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.

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

With splice trays or equipment outlets, it is strongly advised to keep 1 meter (3 feet) of service slack, tucked away. Remove the outer cable sheath (jacket) with FIBERSTRIP or additional

Fiber U Lesson Plan: Basic Skills Lab, Remote

Use the fiber stripper to strip 1.5" (35-40mm) of the fiber. and clean the fiber. For splice or connector exercises, follow the stripping and cleaving lengths specified for that component.

Tips & Techniques for Using Stripping Tools on Fiber Optic Cable

If the blade of the strip tool contacts the bare fiber, it is very easy to create a damaging “nick” or scratch in the fiber OD, which significantly reduces product reliability—a fiber which has

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.

Best Fiber Optic Stripping Tool Options for Pros

The JIC-375 covers 1.6–3.0 mm jackets, 600–900 µm buffers, and 250 µm coatings, exposing the glass fiber for fusion splicing or termination. Its three-hole design supports standard

AshwinD24's gists · GitHub

GitHub Gist: star and fork AshwinD24's gists by creating an account on GitHub.

How does fiber optics work?

An easy-to-understand introduction to fiber optics (fibre optics), the different kinds of fiber optic cables, and how light travels down them.

Fiber Optic Pigtail: The Complete Guide to Types,

Confused about fiber optic pigtails—which connector type, which polish, fusion or mechanical splice? Our guide covers LC vs SC, APC vs UPC,

Ribbon Fiber Optic Cable for High-Density Networks | Data Center ...

Learn what ribbon fiber optic cable is, how it supports high-density data centers, telecom backbones, metro networks and FTTx projects, and how to choose the right ribbon cable structure

Fiber Optic Tools

The global leader in fiber optic tools, Jonard has been trusted since 1958. Shop now for fiber tools such as strippers, duct cutters, cleavers, mid-span splitter & more.

How to Install Outdoor Fiber Optic Cable: Tips and Best

This article details outdoor fiber optic cable types, selection criteria, and professional installation guidelines. It focuses on how to choose durable cables for different

FLX Series Fiber Optic Connectors - Rugged,

FLX Series fiber connectors are rugged, waterproof, and offer quick, tool-free termination. Ideal for FTTH, data center, military, and industrial networks.

Top 5 Fusion Splicers for 2026: Precision Tools for

Fusion splicing is the gold standard for joining optical fibers, using precise thermal fusion to bond two fiber ends together. Unlike mechanical

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://cgweb.co.za>

Technical inquiry: <https://cgweb.co.za/project-enquiry.html>

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

