

Stripping pigtail fibers

Article Overview

Pigtail fibers can be stripped using mechanical, thermal, or chemical methods, each designed to safely remove coatings without damaging the glass fiber.

Mechanical Stripping

Mechanical stripping is the most common method and uses precision fiber strippers or specialized scissors. Handheld fiber strippers have slots sized for specific coating diameters (e.g., 125 um cladding with 250 um coating) and remove the coating by gripping and sliding it off the fiber end without touching the glass itself. For multi-layer pigtails, each layer--jacket, aramid yarn, and buffer--should be stripped progressively to avoid damage. Tools like the Clauss CFS-1 or adjustable strippers are recommended for standard and non-standard fiber diameters.

Thermal Stripping

Thermal strippers soften the polymer coating using controlled heat, making it easier to remove without nicking the fiber. Devices such as the Vytran FFS-2000 or FiberStrip 7030 apply heat to the coating, which can then be slid off cleanly. This method is particularly useful for high-temperature or specialty coatings.

Chemical Stripping

Chemical stripping involves dissolving the coating using solvents or acids. For example, exposing the fiber tip to heated sulfuric acid (around 120°C) for a short period can remove the coating, or applying gel-based paint strippers can soften it for removal with lens tissue. This method is recommended when very high reliability is required, as it minimizes mechanical stress on the fiber. Safety precautions and local regulations must be observed due to the hazardous nature of some chemicals.

Best Practices

- o Always strip only the required length (typically 30-40 mm) to avoid weakening the fiber.
- o Clean the bare fiber with lint-free wipes and high-purity alcohol to remove residues.
- o Ensure blades or stripping tools are sharp and properly sized to prevent jagged cuts or nicks.
- o For multi-layer pigtails, strip each layer individually, starting with the outer jacket, then aramid yarn, and finally the buffer.
- o Avoid using open flames for stripping, as this can make the fiber brittle and unreliable. By selecting the appropriate method and following careful handling procedures, pigtail fibers can be stripped efficiently while maintaining the integrity of the glass fiber for low-loss splicing or connectorization.



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Introduction In the rapidly evolving landscape of fiber optic networks, precision and reliability are non-negotiable.

AFL's Precision Strip is a fast, simple solution for stripping fiber without damage. This battery-powered, handheld stripper features an

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

Learn the essential steps and tools for preparing fiber optic cables for connectors or

However, stripping more than a cm or so of the outer jacket was quite difficult, and very often, removing the 0.9mm buffer would also

Master the art of fiber termination. Learn how to splice fiber optic pigtails using fusion splicing, follow the color code, and ensure low

Understand fiber optic pigtails -- definition, types, and how they differ from patch cords. Learn why pigtails ensure

Looking for a high-quality fiber optic stripper? Check out HOLIGHT's P/N FOS03Y! Perfect for telecom and network

Learn fiber optic pigtails types and uses in plain English. Compare LC, SC, MPO connectors, single-mode vs multimode, and follow

Discover the essentials of fiber optic pigtails, including types, uses, and installation

In this detailed video, we'll walk you through the fiber optic pigtail splicing process -- from preparation to final testing.

Learn how to complete optical fiber splicing in 1 minute #networkengineers #network

Before using the fiber, you should strip tight buffered fiber optic pigtail with tri-hole fiber stripper. If you do not remove all of the buffer

In this guide, we will break down what fiber optic pigtails are, how they differ from patch cords, what types exist, and how to select the



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In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a

Quality Fiber Patch Cord Manufacturing Machine from factory, P6802 Automatic Fiber Optic Cable

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