

How to peel off the coating of optical fiber cables



Article Overview

Use a precision optical fiber stripper to carefully remove the protective coatings layer by layer without damaging the glass core.

Understanding Fiber Coatings

An optical fiber typically has multiple layers: the outer jacket, strength members (like aramid yarn), a buffer coating, and the acrylate coating directly protecting the glass fiber. Each layer serves a protective function, and stripping must be done in sequence to avoid breaking or scratching the fiber glass core .

Tools Required

- Mechanical fiber strippers: Handheld tools with precision blades for specific coating diameters (e.g., 250 μm , 900 μm) to expose the 125 μm glass cladding .
- Thermo-mechanical strippers: Use heat to soften the coating before removal, reducing the risk of fiber damage .
- Non-contact methods: Hot air or laser ablation for specialized applications .
- Chemical strippers: Solvents or acids for certain coatings, though less common in fieldwork .
- Fiber cutting scissors: For trimming aramid yarn or outer jackets after stripping .

Step-by-Step Stripping Process

- Prepare the fiber: Cut the fiber to the desired length and ensure it is clean....

Article Content

Dec 01, 2025

NKT Photonics App notes

FIBER HANDLING, STRIPPING, CLEAVING AND COUPLING This application note addresses general handling of fibers from NKT

May 30, 2026

Optical Fiber Stripping

Mechanical fiber strippers cut into the coating with a precisely laser cut blade, then translate the stripper

Aug 29, 2025

Fiber and Cable Stripper – Types, Uses & Guide

Fiber & Cable Stripper for Fiber Tools 1. FOS03 Fiber strippers remove the coating from the fiber optic cable to expose

Dec 04, 2025

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,

Jul 23, 2026

Stripping (fiber)

Fiber optical stripping can be done using a special stripping and preparation unit that uses hot sulfuric acid or a controlled flow of hot

Jun 28, 2026

PCS-100L Polyimide Coating Stripper for Optical Fiber

The PCS-100L Polyimide Coating Stripper provides a quick, easy, and reliable method to strip polyimide

Sep 09, 2025

Laser Stripping | Optek Systems

Laser stripping of optical fiber is the fast and accurate way to remove acrylate and polyimide coatings, in order to access the fiber for

Jun 16, 2026

Does anyone know how to strip this last layer of coating

Hello, for a new project in fttth splicing we are using this orange cable for the houses which has 2 fibers. When I remove the outer

Dec 08, 2025

How to Repair Fiber Optic Cables: A Step-by-Step Guide

Introduction Fiber optic cables are critical components of modern communication networks, transmitting vast amounts

Jan 09, 2026

The Ultimate Optical Fiber Stripper Guide

Explore Optical Fiber Stripper types and uses. Learn pro techniques for precise stripping to

Sep 20, 2025

Fiber Optic Termination Tools

The fiber coating/buffer stripping tool (callout 3 in Figure G2.1) provides a quick, easy, and reliable way to

May 11, 2026

(PDF) Investigation of cladding and coating stripping methods for ...

Many sensing principles require that the cladding or coating layer should be removed or modified. In addition, since different sensing

Aug 11, 2025

Investigation of cladding and coating stripping methods for specialty ...

Fiber optic sensing technology is used extensively in several engineering fields, including smart structures, health and

Jul 14, 2026

How to Strip and Clean Fiber-Optic Cable?

Self-Supporting Indoor Drop Optical Cable One product commonly used to remove gel from fibers and tools (d''Gel) consists of

Sep 16, 2025

How To Clean and How Not to Clean Fiber Optic

When it comes to cleaning fiber optics, one must always inspect, clean and inspect fiber again. This post

Mar 13, 2026

Cable Preparation Best Practices for Fiber Optic Indoor/Outdoor ...

This best practices document is a step-by-step guide for end and midspan access of loose tube optical cable, including sheath

Jan 04, 2026

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

Aug 25, 2025

Stripping Optical Fibers utilizing the Fujikura

ABSTRACT The recently released Fujikura PCS-100 is a novel stripping tool for removing polyimide coating from optical fibers.

Aug 03, 2025

Optical Fiber Coatings Explained

This article continues FOC's latest series on optical fiber manufacturing processes, providing an overview of coatings

Mar 22, 2026

Fiber-optic cable

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but

Jan 24, 2026

Preparing your Fiber Optic Cable for Connectors or Splices

Use a fiber optic jacket stripper to remove the outer protective coating. Carefully score the

Dec 14, 2025

Stripping Techniques For Your Fiber Optic Cable

Good fiber optic stripping techniques in your cable assembly process are crucial. See best

May 22, 2026

Fiber and Cable Stripper – Types, Uses & Guide

When the aramid fiber in the optical cable is spliced, use fiber cable cutting scissors to cut it

Sep 27, 2025

Step by Step Guide

This tutorial shows you the detailed step-by-step guide on how to terminate an epoxy and polish SC connector onto 3mm jacketed

Apr 04, 2026

Removal of Coatings from Short Fiber in Certain Sections

We provide fiber optic stripping tools for fiber coating removal, including end-stripping and mid-span tools, ideal for

Jun 19, 2026

Method for removing a coating from a portion of optical fiber

Description The present invention relates to a method for removing a coating from a portion of optical fiber. In particular, the invention

Jan 22, 2026

How To Strip Fiber Optic Cable | Instructional

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

Jun 18, 2026

Sheath Removal and Stripping of 8 and 12-Fiber Ribbon Interconnect Cables

1.2 Corning Cable Systems ribbon interconnect cables are lightweight, flame retardant cables designed for high performance

Dec 11, 2025

Fiber Optic Strippers | Fiber Termination Tools

The Model F-JS2 Fiber Jacket Stripper can remove fiber jackets safely and efficiently to the diameters of 0.4 mm to 1 mm, leaving an

Jun 18, 2026

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

Lesson 3: Fiber Optic Cable And Fiber Preparation Objectives: From this lesson you should learn: How to

Nov 08, 2025

Removing polyimide coating without damaging carbon nor fused silica ...

While being manufactured, an optical fiber (fused silica, 125 microns diameter) has been coated with a carbon coating

Oct 11, 2025

Removal of Coatings from Short Fiber in Certain Sections

With several patents for fiber optic stripping, such as Burst™ Technology and the Ring of Fire®, 3SAE's state-of-the-art

Sep 19, 2025

Microsoft Word

These coatings are made from acrylate composite materials applied to the outside of the fiber during the production process. Optical

Dec 24, 2025

Care of Optical Fibers During Splice Preparation

Care of Optical Fibers During Splice Preparation AEN 30, Revision: 4 Fiber preparation for splicing and termination requires removal

Contact Us

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