

What are the special tools for disassembling optical cables



Overview

Fiber Optic Cable Stripping Tools and Equipment Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers.

Key Takeaways

Disassembling optical cables requires specialized tools such as fiber optic strippers, Kevlar scissors, cleavers, and slitters to safely remove protective layers without damaging the delicate glass fibers.

Key Tools for Fiber Optic Cable Disassembly



1. **Fiber Optic Strippers** Fiber optic strippers are precision hand tools designed to remove the outer jacket, buffer, and coating layers of optical fibers without nicking or scratching the glass core. They come in manual tri-hole versions for field work and automatic electric versions for manufacturing environments. Strippers can handle multiple layers, including the outer jacket (typically 1.2–6.4 mm), the 900 µm buffer, and the 250 µm acrylate coating, ensuring clean preparation for splicing or termination .

2. **Kevlar Scissors** Optical cables often contain Kevlar or aramid yarn for tensile strength. Standard scissors cannot cut these fibers effectively. Kevlar scissors feature high-carbon steel blades with serrated edges to grip and slice through aramid yarn cleanly, preventing fraying and ensuring precise cuts .

3. **Cable Slitters** For mid-span access or armored cables, specialized slitters allow longitudinal or circular cuts on the heavy outer jackets. These tools enable technicians to access individual fibers without cutting the entire cable, which is essential for maintenance or splicing in the field .

4. **Cleavers** Fiber cleavers are used to achieve a precise, perpendicular cut on the fiber end. A clean cleave is critical for low-loss splicing and termination. Cleavers are designed to produce a cleave angle typically less than 0.5°, ensuring optimal signal transmission .

5. **Cleaning Tools** After stripping, cleaning tools and solutions (such as 99.9% isopropyl alcohol with lint-free cloths) are used to remove residual coatings and contaminants from fiber end faces. Proper cleaning prevents signal degradation and ensures reliable connections .

6. **Optional Specialized Strippers** Some applications require thermal, chemical, or plasma-based strippers for removing coatings from specialty fibers or plastic optical fibers. These tools are tailored to specific fiber types and coating materials, providing flexibility for advanced installations .

Summary

Disassembling optical cables safely and efficiently requires a combination of mechanical precision tools (strippers, cleavers, slitters, Kevlar scissors) and cleaning instruments. Using the correct tools ensures that the delicate glass fibers remain intact, minimizes signal loss, and prepares the cable for splicing, termination, or testing in professional telecom and FTTH networks .

Article Content

Fiber Optic Cable Stripping Tools and Equipment

Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers to ensure optimal fiber optic

Common Tools to use for Fiber Optic Installations

Our fiber optic kit includes all the essential fiber optic tools needed. All the tools included in this kit are professional grade and have

Fiber and Cable Stripper – Types, Uses & Guide

First, strip the outer sheath of the optical fiber with optical fiber strippers; remove the stripped outer sheath of the

Fiber Optic Tools and Tool Kits for Your Cabling Needs

High quality fiber strippers, fiber cleavers, cable slitters, mid-access tools, cable pulling tools and more from 3M, Corning, Ripley

Fiber Optic Tools & Tool Kits

Light Brigade offers a wide variety of fiber optic tools and tool kits from leading manufacturers, including Jonard Tools, Ripley/Miller,

Stripping & Cutting Tools For Fiber Optic Cable

Ripley professional grade Stripping & Cutting Tools For Fiber Optic Cable feature scribes and cleavers, cable strippers and cutters.

Optical Cable Construction Tools

These tools ensure precision, efficiency, and safety during cable deployment, splicing, and testing. Common tools include cable

Fiber optic cable tools every professional should have on the job

Fiber optics are widely used in the communications industry, which is why it's important to have the right fiber optic cable tools for the

Fiber Optic Cutting Tools - trueCABLE

Precision cutting is critical in fiber optic work, and our tools are built to excel under pressure. Our fiber optic

Fiber Optic Cable Tools

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

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

What is Fiber Optic Tools and Types

What is Fiber Optic Tool? Fiber optic tools are specialized tools used for installing, maintaining, and testing fiber optic

The Complete Step-by-Step Guide to Fiber Optic Splicing

In this guide, we cover the basics of fiber optic splicing, how to perform splicing using two different methods, and finally some best

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 identify typical fiber optic

The Tools You Need for Working With Fiber Optic Cables

For strong, reliable connections, work with fiber optic cables safely using essential tools such as strippers, cleavers,

The FOA Reference For Fiber Optics

The frequency of problems caused by fiber optic tools is high: their poor design, improper use, poor condition or the unfamiliarity with

Fibre optic cable preparation tools > OTT resources

What tools do you need to prepare fibre optic cable? Cable preparation is the most important practical skill to master in fibre optics.

Fiber Optic Cable Preparation And Termination Instructions

Each kit contains pin and socket polishing tools, jacket strippers, shears, scribes—literally all the tools and supplies required for

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