

How to strip a butterfly-shaped optical fiber cable



Overview

Good fiber optic stripping techniques in your cable assembly process are crucial. See best practices for how to strip fiber optic cable buffers & jackets.

Key Takeaways

Stripping a butterfly-shaped optical fiber cable requires careful, layer-by-layer removal of the jacket, strength members, and buffer coatings using specialized tools to avoid fiber damage.

Preparation and Safety

Before starting, ensure you have a clean, well-lit workspace and wear safety glasses to protect your eyes from fiber shards. Gather the necessary tools: a fiber optic cable stripper, Kevlar scissors, alcohol wipes, and a fiber cleaver for precise termination. Inspect the cable for any kinks or damage before proceeding.

Step-by-

Step Stripping Process

Measure and Mark the Cable Determine the length of cable needed for termination or splicing. Mark the jacket at the point where you will strip it, typically 7-10 inches from the end. **Remove the Outer Jacket** Use a cable jacket stripper or a hook-blade knife to score the outer jacket carefully.



Avoid cutting too deep to prevent damaging the Aramid yarn or fibers underneath. Bend the jacket slightly to break it along the score line and remove it. Expose and Trim Strength Members Butterfly cables often contain Kevlar or Aramid yarn for tensile strength.

Cut these fibers to the required length using Kevlar scissors, leaving enough to maintain cable strength but not interfere with termination. Separate Individual Fibers Butterfly cables have multiple fibers in a flat ribbon. Carefully separate the fibers you need to terminate or splice.

Handle each fiber gently to avoid microbends or breaks. Strip the Buffer Coating Use a fiber stripper to remove the buffer coating from each fiber. For tight-buffered fibers (900 μm) or standard buffered fibers (250 μm), ensure the stripper is fully closed before pulling to remove the coating cleanly.

Repeat until the bare fiber is exposed without nicking it. Clean and Inspect Wipe the stripped fiber with alcohol wipes to remove debris or residue. Inspect the fiber end with a fiber inspection microscope or visual fault locator (VFL) to ensure it is clean and free of defects.

Cleave the Fiber Use a fiber cleaver to create a smooth, perpendicular end face on the stripped fiber, which is essential for low-loss splicing or connectorization.

Best Practices

Strip each layer progressively, never all at once, to avoid fiber damage. Maintain your tools, keeping blades sharp for clean cuts. Dispose of fiber scraps safely to prevent injury.

Work slowly and methodically, especially with multi-fiber butterfly cables, to ensure consistent results. By following these steps, you can safely and effectively strip a butterfly-shaped optical fiber cable, preparing it for splicing or termination while maintaining optimal signal performance.

Article Content

Stripping Techniques For Your Fiber Optic Cable

Good fiber optic stripping techniques in your cable assembly process are crucial. See best practices for how to strip fiber optic cable buffers & jackets.

Fiber U Lesson Plan: Basic Skills Lab, Remote

- 1: Use kevlar scissors to cut the cable at the middle. We'll splice the two pieces back together in an exercise and put new connectors on the bare ends in another exercise.
2. Use the fiber stripper to

How To Strip Fiber Optic Cable | Instructional

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a simple way to strip optical 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

Butterfly -shaped optical fiber optical cable

Fusion splicing is a popular method of connecting butterfly-shaped optical fiber cables. It involves welding two fiber cables together using heat. The

Fiber U Lesson Plan: Basic Fiber Optic Skills Lab

Using zipcord or simplex cable, strip the jacket, cut the fiber off and attach a pulling eye to the cable. Swivel eyes like those used in the video are available at a

FTS-01 Fiber Optic flat cable Stripper

FTS-01 Fiber Optic flat cable Stripper Suitable for 3.0*2.0mm butterfly drop cable
Using one-time forming die-cast aluminum, high-strength

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.

stripping fiber optic cables

I am stripping two 144F loose tube cables and one 48F loose tube cable. Please like, subscribe, and comment any questions you may have.

How to strip drop cable? : r/FiberOptics

You'll have two stretch membranes and the fiber sits in the middle. Just pull the two strength membranes apart and gently peel the fibre away from whatever side its

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Optical Fiber Drop Cable Stripper FTS-01 Stripe 3.0

FTS-01 is an optical fiber stripper for stripping 3.0*2.0mm butterfly-shaped drop cable. It adopts a one-time molding die-cast aluminum and rubber sheath non-slip design, with clear graduation marks.

Four -end connection methods of butterfly -shaped optical fiber optic ...

They are called butterfly-shaped due to their unique design, which features a flat shape with two parallel fiber ribbons running down the center of the cable. There are several ways to

Butterfly cables, Butterfly fiber optic cables

Butterfly Fiber optic cables are specifically designed for use in indoor environments, often in confined spaces such as inside buildings or data centers. They are named for their flat, strip-like shape, which

How to Strip and Clean Fiber-Optic Cable?

How to Strip and Clean Fiber-Optic Cable? To strip and clean outdoor FO cable, you have to start with the outer jacket. Step 1: Mark the armor (if the cable has armor) with the tip of your knife to note a

How to Strip And Clean Fiber-Optic Cable

Whether it is indoor or outdoor fiber-optic (FO) cable, using a step-by-step approach reduces the chance of fiber damage while ensuring the performance of fibers. In our continuing discussion of installing

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