

Stripping Method for Butterfly-shaped Optical Cables



AI Overview

Stripping butterfly-shaped optical cables requires careful, layer-by-layer removal of the jacket, aramid yarn, and buffer coatings using precision fiber strippers to avoid damaging the glass fibers.

Layer-by-Layer Stripping Butterfly cables consist of multiple fibers in a flat ribbon, typically with an outer jacket, aramid yarn for strength, and individual fiber buffers. Each layer must be stripped progressively, not all at once, to prevent damage to the fibers underneath. The general sequence is:

- Outer Jacket:** Use a wire or fiber optic jacket stripper sized for the cable diameter. Cut carefully to avoid nicking the aramid yarn or inner fibers.
- Aramid Yarn:** After removing the jacket, trim or pull back the aramid yarn. These fibers provide tensile strength, so avoid cutting them too short.
- Buffer Coatings:** Each fiber has a primary (250 μm) and sometimes secondary buffer. Use a precision fiber stripper to remove these coatings down to the 125 μm glass cladding.

Tools and Methods

- Mechanical Strippers:** Handheld strippers with precision slots for different fiber diameters are common. They allow controlled removal of coatings without touching the glass core.
- Thermal Strippers:** Heated tools soften the buffer coating, making it easier to remove, especially for tight or multi-layered fibers.
- Automated Stripping Machines:** For high-volume or consistent results, automated tools strip multiple fibers simultaneously with minimal operator skill required.
- Specialized Ribbon Strippers:** Butterfly cables may require strippers designed for flat ribbon fibers to remove multiple fibers' coatings at once without misalignment.

Best Practices

- Inspect Each Layer:** After stripping, check for nicks or scratches on the fibers. Even minor damage can lead to cracks or signal loss.
- Maintain Tools:** Keep blades sharp and calibrated. Adjustable strippers allow fine-tuning for different fiber diameters.
- Work with Excess Fiber:** Leave extra fiber length...

Article Content

Method for laser stripping of optical fiber and flat cable

This method allows stripping of the protective layers from single fibers and from multi-fiber ribbon cables. It also allows stripping of the protective layers at an end section of the cable or in a middle section

A kind of prefabricated end butterfly drop cable and its

A lead-in optical cable and butterfly technology, which is applied in the field of prefabricated-end butterfly lead-in cable and its preparation and

Stripping clamp unit for butterfly type leading-in cable

It is applied in the field of cables and tools. It can solve the problems of inconvenient use by connector manufacturers, high replacement costs of knife tools, and inability to adapt to rapid production.

NKT Photonics App notes

FIBER HANDLING, STRIPPING, CLEAVING AND COUPLING This application note addresses general handling of fibers from NKT Photonics, including how to strip the protective coating, how to cleave

MINIATURE AND EASY-TO-STRIPPING BUTTERFLY-SHAPED

The present application discloses a miniature and easy-to-stripping butterfly-shaped photoelectric composite communication optical cable, comprising an optical cable part and a cable part fixedly

CN104730633A

The invention belongs to the technical field of cables and tools, and particularly relates to a stripping device for a self-supporting butterfly-shaped drop cable. The invention solves the problems that no

CN104749698A

The present invention belongs to the field of cable and tool technology, and more particularly relates to a self-supporting butterfly-shaped stripping device for optical cable introduction.

FTTH Flat Drop Cable Auto-Stripping Machine,BPJ-3020

BPJ-3020 Used for the production of prefabricated end-to-end butterfly skinned fiber optic cable patch cords, stripping the LSZH/PVC outer jacket according to the required length and cutting off FRP or

CN104749701A

By the stripping device, the problem that no self-bearing butterfly-shaped optical cable stripping device suitable for factory use exists in the prior art and the problem of unsafety in use are solved.

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.

Good stripping techniques for your fiber optic cable

Without question, good stripping techniques in your fiber optic cable assembly process are imperative. What happens if you damage the fiber during this

WO/2025/225768 DEVICE FOR STRIPPING OPTICAL CABLES,

The present invention relates to a device for stripping optical cables, a method for stripping optical cables using the device, and a package comprising optical cables and the device for stripping

Stripping device for self-supporting butterfly lead-in optical cables

A self-supporting technology for introducing optical cables, applied in the field of cables and tools, it can solve the problems of inability to adapt to rapid production, affect work efficiency, and troublesome

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The invention belongs to the technical field of cables and tools, and particularly relates to stripping pliers for a self-supporting butterfly-shaped drop cable. The invention has the following main beneficial

Separable butterfly-shaped leading-in optical cable assembly and ...

The invention discloses a separable butterfly-shaped leading-in optical cable assembly which comprises an optical cable body and an optical cable stripping device used for stripping the

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 cables How to prepare cables for

Butterfly-shaped optical cable laying method

A butterfly-shaped optical cable and a preparation method thereof are provided, wherein the butterfly-shaped optical cable comprises an optical fiber, a resin layer, a first protective layer, a second

US20240094491A1

The present application discloses a miniature and easy-to-stripping butterfly-shaped photoelectric composite communication optical cable, comprising an optical cable part and a...

Optical Fiber Drop Cable Stripper FTS-01 Stripe 3.0

As a hand-held stripper, it has a high-strength structure, simple operation, and a flat incision without damaging the optical fiber. It is an indispensable tool for stripping the sheathed optical cable.

Separable butterfly-shaped leading-in optical cable

technical field The invention belongs to the field of optical cable manufacturing, and relates to a detachable butterfly-shaped lead-in optical cable

Butterfly optical cable stripping clamp

The optical cable baring device method of operating of the utility model is following: butterfly optical cable is inserted open in the stripping main body, depress lever handle, extract optical cable

Butterfly self-supporting fiber optic cable fixed-length stripping and ...

The invention provides a butterfly-shaped self-supporting optical cable fixed-length stripping and steel wire shearing machine, relates to the technical field of steel wire shearing machines, and comprises

A Capella: A Unique Compilation | PDF | Wellness

This document contains a long list of words beginning with "ab-" or "ac-". It does not appear to be a coherent text, but rather a collection of unrelated terms.

Dropfibre Butterfly Stripper| Products | Tavismanor

The ideal tool for the fast and safe removal of the outer sheath for Dropfibre cables. Lightweight, one piece moulded body with totally enclosed blades ensure a safe

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The optical cable stripping device is used for cutting the separable butterfly-shaped leading-in optical cable, and is simple in structure and easy to operate.

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