

Longitudinal opening of optical cable bundle tube



Overview

WO/2021/258729 OPTICAL CABLE BUNDLE TUBE LONGITUDINAL An optical cable bundle tube longitudinal section connection method, comprising: S1: an optical cable.

Key Takeaways

Longitudinal opening of optical cable bundle tubes involves using specialized slitting tools to precisely cut the protective tube along its length, allowing access to the fibers inside without damaging them.

Overview
The longitudinal opening, or stripping, of optical cable bundle tubes is a critical step in fiber optic cable preparation. It is used for both end terminations and midspan access of loose tube cables, central beam tubes, or microducts. The process ensures that the fibers inside the tube can be accessed safely for splicing, connectorization, or testing while maintaining the integrity of the remaining cable structure .

Tools and Techniques

1. Loose Tube Slitters and Strippers Specialized tools, often called loose tube slitter tools, are designed to longitudinally cut the tube without damaging the fibers inside. These tools typically feature:

- Open-style structures with guide slots to accommodate different tube diameters, ranging from 1.5 mm to 11 mm .



- Super alloy blades that are sharp and durable, ensuring precise cuts and long service life .
 - Multiple guide grooves to align the tube correctly and maintain consistent cutting depth .
 - Double-sided opening designs for easy insertion and removal of the cable . 2.
- Operational Steps

- Select the appropriate guide slot for the tube diameter.
 - Place the optical cable into the open structure of the tool.
 - Slide the blade along the length of the tube to create a longitudinal slit.
 - Carefully remove the tube halves to expose the fibers for further handling . 3.
- Safety Considerations

- Always wear safety glasses and gloves when handling fiber optic cables .
- Avoid looking directly into fiber ends that may carry laser light, as it can cause serious retinal damage .
- Use the tool in a well-ventilated area if solvents are involved in cleaning or preparation .

Applications

- Outdoor and indoor loose tube cables
- Central beam tubes in multi-fiber cables
- Microduct and ADSS cables for midspan access
- Preparation for splice closures, cabinets, and pedestals .

Advantages

- Precision and consistency in cutting the tube
- Time-saving compared to manual methods
- Reduced risk of fiber damage due to controlled blade depth and guide slots
- Versatility for multiple tube diameters and cable types . In summary, longitudinal opening of optical cable bundle tubes is performed using specialized slitting tools with adjustable guide slots and sharp blades. Proper selection of the tool and adherence to safety procedures ensures efficient and safe access to the fibers inside loose tube or bundle optical cables .

Article Content

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Optical cable bundle stripper AUA-09 cable bundle

Product description: Loose tube cable longitudinal opening blade, equipped with super alloy special blade.

Longitudinal Opening Knife Fiber Optical Cable Stripper

Our main product ranges Fusion Splicer, SFP+ Modules, GEAPON OLT, GEAPON XPON ONU, and fiber optic accessories, like fast

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Loose Tube Slitter FFS09-FutureFiber Solutions

It easily slits the PVC cable jacket into two halves before crimping. In both field and plant applications, time is saved and consistency

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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

Optical Fiber and Cables | Springer Nature Link

Thereafter, in the optical fiber cable section, we start with the classification of use cases such as indoor or outdoor cables and their

Taking a closer look at the anatomy of a fiber optic cable

Performing accurate ring and longitudinal cuts on dielectric cables of up to 0.79" (20mm) in diameter, the MB02 series

Fiber-optic cable

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

FIBER OPTIC CABLE ASSEMBLY MANUFACTURABILITY AND

The purpose of this document is to define the standards and guidelines that should be followed in order to fabricate a harsh

FUJITOMO Longitudinal Opening Knife and Tube Cutter Sheath Cable ...

FTTH fiber optic loose tube splitter Multi function wire stripper pliers hand toolKey FeaturesEquipped with a heater to heats the coating

BASICS OF OPTICS AND OPTICAL FIBER COMMUNICATION

An optical fiber is a glass or plastic fiber designed to guide light along its length. Fiber optics is the overlap of applied science and

Longitudinal Bundle Tube Stripper Cable Tube Slitter Fiber Optic

Longitudinal Bundle Tube Stripper Cable Tube Slitter Fiber Optic Jacket Cutting Tool 2.9-6.8mm Loose Tube Buffer Mid-Span

Amazon : Fiber Buffer Tube Cutter

Loose tube buffer tube stripper A-1233 fiber mid span cable cutting tool | longitudinal bundle stripping range 1.2-3.3mm Longitudinal

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FF-408 Fiber Cluster/Loose Tube/Cable Jacket Slitter is an efficient and indispensable tool for fiber optic cable termination. It easily

Chapter 14

1 Introduction This chapter provides detailed information on the applications, features, and benefits, material, material selection, and

The FOA Reference For Fiber Optics-Installing Fiber Optic Cable

General Guidelines For Installing Fiber Optic Cable Fiber optic cable may be installed indoors or outdoors using several different

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FIBER OPTIC CABLES

Introduction Optical Fiber Cables come in all sorts of lengths, sizes and configurations. In this catalogue you'll find a wide variety of

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Fiber Bundles – flexible light pipes, fiber rods, profile converters ...

Fiber bundles, made from glass or plastic fibers, have many applications in illumination, imaging and optical sensors, for example.

Custom optical bundles and probes for complex applications

Main applications would be illumination and excitation bundles, endoscopy, imaging systems, optical power transportation or mere

Longitudinal Cable Sheath Slitter SI-01-OFT

branching. Replacing blades fixed at the center of Stripper, you can use this tool permanently.

Optical Fibers Fundamentals | MEETOPTICS Academy

Optical fibers are circular dielectric wave-guides used to contain and transmit light over short or long distances. They consist of three

Single Mode Fiber Optic Cable Bundle, 2D Multimode Fiber Bundle,

Complementary to a single mode fiber bundle, a 2-D tapered fiber optic cable bundle uses a flat-bottom groove and lid to stack

Central Loose Tube Fiber Cable

Belden's Central Loose Tube Fiber Cables support indoor/outdoor use—including conduit, direct burial, aerial and trunking. Built with

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