

Fiber Optic Cable Tube Core Removal

Article Overview

Removing the core from a fiber optic cable tube requires careful sheath cutting, buffer tube access, and proper handling of fibers using specialized tools.

Tools and Safety Equipment

Before starting, gather the following tools and ensure proper safety measures:

- o Eye and hand protection
 - o Sheath knife and buffer tube splitter
 - o Fiber optic cable cutters and scissors/snips
 - o Needle-nose pliers
 - o Buffer tube removal tool and primary coating stripping tool
 - o Clean cotton cloths and tape measure
- Always wear safety glasses and gloves, and work in a well-ventilated area when using solvents. Never look directly into fiber ends that may carry laser light, as this can cause serious eye damage .

End-Access Core Removal

- o Mark the sheath: Measure the length of cable to be accessed (typically 6 feet or 2 meters) and mark the circumference of the outer sheath.
- o Score and remove the sheath: Use a sheath knife to "ring" the sheath at the mark, applying enough pressure to cut through the PVC or armor layer. Flex the end to crack open the sheath and slide it off.
- o Expose ripcords: If present, nick the armor under the ripcords and pull them to slit the sheath.
- o Access buffer tubes: Once the sheath is removed, identify and carefully handle the loose buffer tubes. For high fiber count cables, remove the outer layer of tubes first to expose the inner layer, handling each layer similarly .

Mid-Span Core Removal

- o Locate the buffer tube reversal point: This is where the helical twist of the tubes changes direction. Accessing a 40-inch (100 cm) section usually reveals this point.
- o Mark and remove sheath: Measure from the reversal point to determine the length of cable to access. Remove the sheath carefully to avoid damaging the fibers.
- o Handle buffer tubes: Unwind the tubes gently from the reversal point. For cables with multiple layers, remove the outer layer first, then prepare the inner layer in the same manner .

Fiber Preparation

After core removal, fibers should be trimmed, cleaned, and prepared for termination or splicing. Use a primary



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coating stripping tool to remove the fiber coating without nicking the glass. Maintain the minimum bend radius to prevent attenuation or breakage .

Best Practices

- o Do not expose more buffer tube than recommended to avoid signal loss.
- o Leave slack loops (typically 96 inches or 244 cm) for proper routing in closures.
- o Record cable identification markings for future reference.
- o Follow manufacturer-specific procedures to maintain warranty and performance . By following these steps and using the proper tools, fiber optic cable cores can be safely and efficiently removed for both end-access and mid-span applications.

This document provides specific information related to Loose Tube fibre cables. The General "Installation Guide For Optical Fibre

In this video, we'll guide you through preparing and terminating fiber optic cables using

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

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

Topic: Fiber Optic Cable Table of Contents: The FOA Reference Guide To Fiber Optics Fiber Optic Cable

Before using the coaxial cable stripper, follow the adjustment and test procedures in SRP-005-007, Scoring Fiber Optic Tubes with a

This document provides instruction for the preparation and handling of loose tube, ADSS, and Microduct iber optic cable. The

Fiber Optic Termination Tutorial We terminate fiber optic cable two ways - with connectors that can mate two fibers to create a

Removal of fiber optic outer cable is extremely important using the correct tool will make this job easier and will avoid

Corning ALTOS® cables provide stable performance over a wide temperature range and are compatible

1.2 The FREEDM Loose Tube Ribbon cable illustrated in this procedure is a flame retardant, all-dielectric,

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high fiber count design

Light propagating in a multi-mode fiber The core of a conventional optical fiber is the part of the fiber that

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

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

A cable preparation tool for fiber optic installations, the FOC-200 fiber optic cable stripping tool will remove

Learn how to use fiber strippers, cable cutting scissors, and armored cable slitters. Discover

Web: <https://www.kremgroup.co.za>

