

Fiber Optic Cable Stripping Step 6



Overview

Note the cable diameter and jacket thickness for each cable – Stripping cables and fibers is a delicate process.

Key Takeaways

Step 6 involves inspecting the cleaved fiber end to ensure it is clean, smooth, and free from defects before termination.

After stripping and cleaning the fiber, Step 6 requires using a fiber optic inspection microscope or a visual fault locator (VFL) to examine the cleaved end of the fiber. This step ensures that the fiber has a perpendicular, smooth end face without nicks, cracks, or debris, which is critical for optimal signal transmission and connector performance .

Detailed Procedure for Step 6

- Prepare the fiber for inspection: After stripping the protective coatings and cleaning the fiber with alcohol wipes, make sure the fiber is free of dust and residue .
- Use the inspection tool: Place the cleaved fiber end under a fiber optic microscope or use a VFL to check for imperfections. The microscope allows you to see scratches, chips, or uneven cleaves that could affect signal quality .
- Evaluate the cleave quality: A proper cleave should be flat, perpendicular to the fiber axis, and free of cracks or chips. Any irregularities can cause signal loss or connector failure .

- Repeat if necessary: If the cleave is not acceptable, recleave the fiber using a fiber optic cleaver and re-inspect until the end face meets quality standards .
- Multiple fibers: When terminating multiple fibers in a cable, repeat the inspection process for each fiber individually to ensure consistent quality across all strands . Step 6 is crucial because even minor defects in the fiber end can lead to signal attenuation, reflection, or connector failure, making this inspection a key quality control step in fiber optic termination .

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You have successfully completed this exercise when you have been able to strip the jacket and both buffer coating layers from the

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Fiber optic connectors (SC, LC, ST, FC, etc.) provide a pluggable interface for optical fibers, similar to the

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The most common way to strip fiber optic cables before termination is by using a fiber

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How to Terminate Fiber in Seconds

You'll learn to prepare your fiber before inserting it into the connector for termination and

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

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Use the fiber strippers to strip ~1" (25mm) from the end of the fiber in 3 steps, about 1/4-3/8" (6-8mm) at a time. Hold the stripper at a

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Use an optical fiber stripper to remove the protective outer sheath of the fiber cable. Hold the cable securely and apply consistent

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In our training courses, we start with a 2 meter (or 6 foot) ST to ST cable with 62.5 multimode fiber. This allows us to test it first to

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