Manually strip the optical cable



Overview

Use the fiber stripper to cut off 2" (50mm) of the cable jacket and pull off the cut piece. Use the first groove in the fiber stripper - the biggest one - and just gently cut the fiber jacket and pull it off.

Key Takeaways

Stripping optical cables involves carefully removing the outer jacket, strength members, and buffer coatings to expose the fiber without causing damage.

Preparation and Safety

Work area: Ensure a clean, well-lit workspace free of dust and debris ( ). Safety gear: Always wear safety glasses to protect your eyes from sharp fiber shards ( ). Tools: Use a fiber optic cable stripper, cleaver, hook blade knife, alcohol wipes, and inspection microscope ( ).

Step-by-

Step Stripping Process

Measure and mark the cable: Determine the length of jacket to remove based on your termination or splicing needs. Mark the jacket accordingly ( ). Score the outer jacket: Use a circular scoring tool or hook blade to make a shallow cut around the outer jacket, typically 7–10 inches from the cable end.

Avoid cutting too deep to prevent damaging the inner fibers ( ). Remove the outer jacket: Bend the scored section to break the plastic and peel it away. Expose the ripcord if present, which can help remove the remaining jacket ( ).

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Strip strength members: Carefully remove aramid yarn or other strength fibers without cutting the fiber itself. These fibers provide tensile strength and must remain intact for proper connector performance ( ). Remove buffer coatings: Use a fiber optic stripper to remove the protective coating from each individual fiber.

Adjust the stripper blade depth according to the fiber diameter to avoid nicking the glass ( ). Clean the fiber: Wipe the stripped fiber with alcohol or a cleaning solution to remove debris and ensure a clean surface for termination ( ). Cleave the fiber: Use a fiber optic cleaver to create a smooth, perpendicular end face.

Inspect the cleave with a microscope or visual fault locator to ensure it is free of defects ( ). Repeat for multiple fibers: If working with multi-fiber cables, repeat the stripping, cleaning, and cleaving process for each fiber individually, maintaining consistency and precision ( ).

Best Practices

Strip layers progressively: jacket first, then strength members, then buffers ( ). Maintain tools: Keep cutting edges sharp to prevent fiber damage ( ). Handle fibers carefully: Avoid bending fibers sharply or applying excessive force.

Dispose of fiber scraps safely to prevent injury ( ). Following these steps ensures clean, undamaged fibers ready for splicing or connectorization, which is critical for optimal signal transmission and network performance ( ).

Article Content

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Fiber strippers are precision tools that reliably and cleanly remove a defined length of coating (often 30–40 mm) from a fiber end so that the bare glass is exposed without scratching or nicking it.

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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.

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Lesson: Stripping Optical Fiber Cable Objectives: From this lesson you should learn: How to use these tools to strip cable to the bare fiber Tools: Safety Glasses Fiber Stripper Kevlar Shears Components:

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