

Cutting Fiber Optic Cables



Article Overview

Cutting fiber optic cables requires precision, specialized tools, and strict safety measures to ensure clean cuts and maintain signal integrity.

Key Safety Precautions

Fiber optic cables contain fine glass strands that can splinter and cause injury. Always wear safety goggles to protect your eyes and gloves to prevent cuts from glass shards. Work in a well-ventilated area and use a disposable container to safely collect fiber scraps. Avoid using improper tools, as this can damage the cable and degrade signal performance .

Tools Required

- Fiber Optic Cleaver: Produces a clean, perpendicular break for minimal signal loss .
- Fiber Stripper: Removes protective coatings without damaging the core .
- Kevlar Scissors: Cuts Kevlar strands in the cable .
- Cable Cutters or Utility Knife: Used to score and remove the outer jacket .
- Lint-Free Wipes and Isopropyl Alcohol: Cleans the fiber before and after cutting .
- Optional Microscope or Inspection Scope: Ensures the cut surface is clean and even .

Step-by-Step Cutting Procedure

- Remove the Outer Jacket: Use a sharp blade or wire strippers to cut through the outer jacket, then pull it off carefully .
- Handle Kevlar Fibers: Twist the Kevlar strands into a rope-like shape and snip the...

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In summary, cutting fiber optic cables requires specialized tools, knowledge, and skills. It is important to take the

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Cut the cable and complete the take-up process. When finished, secure the top end of cable to the inside flange that is closer to the

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