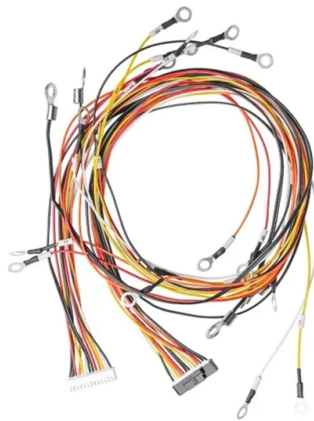


How to cut the fiber optic cable to the home



AI Overview

Cutting fiber optic cable at home requires careful handling, the right tools, and precise techniques to avoid damaging the delicate glass fibers.

Tools You Will Need

- Fiber optic stripper:** Removes the outer jacket and buffer coatings without harming the core fibers.
- Cable cutter or heavy-duty wire cutter:** Cuts through the outer sheath and strength members like Kevlar.
- Kevlar scissors:** Specifically designed to cut Kevlar strands cleanly.
- Utility knife or razor blade:** For scoring the glass tubing if needed.
- Fine-grit sandpaper:** To smooth rough edges after cutting, especially for thicker cables.

Step-by-Step Cutting Process

- Remove the Outer Jacket:** Use a sharp blade or fiber optic stripper to carefully cut and peel off the outer jacket. Avoid cutting too deep to prevent damaging the internal fibers.
- Handle Kevlar Strands:** Twist the Kevlar fibers into a rope-like strand and snip them with Kevlar scissors or metal scissors.
- Expose the Glass Fiber:** After removing the jacket and Kevlar, you will see the glass fiber tubing. Score the glass lightly with a box cutter or sharp knife at the desired cut point.
- Break the Fiber Cleanly:** Hold the fiber at the scored point and bend it slightly. The fiber should snap cleanly along the score line.
- Trim Remaining Wires:** Use regular wire cutters to snip any remaining coated wires or strength members.
- Smooth the Ends:** For thicker cables, sand down any rough edges with fine-grit sandpaper to prevent splinters or signal loss.

Tips and Safety Precautions

- Work in a well-lit area and wear safety glasses to protect your eyes from glass shards.
- Do not use standard scissors or pliers on the glass fibers, as this can crush or shatter them.
- Use precise, gentle pressure when scoring and snapping fibers to ensure a clean cut.
- Dispose of fiber scraps carefully, as tiny glass shards can cause injury.

Notes on Cable Types

- Thin filaments (0.25–1 mm) can often be cut with sharp scissors.
- Mediu...

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In summary, cutting fiber optic cables requires specialized tools, knowledge, and skills. It is important to take the necessary precautions to ensure that the fiber is not damaged during the

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For more information, pricing, or custom solutions, please contact us:

Website: <https://sabineamsee.co.za>

Email: info@sabineamsee.co.za

Phone: +27 82 415 6793

Address: Unit 7, Innovation Park, 34 Electron Road, Kempton Park, 1620, South Africa

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