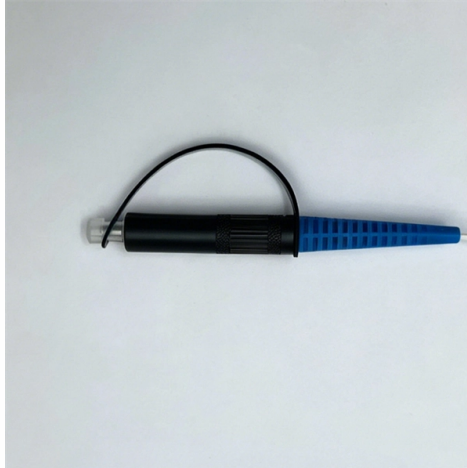


How to remove the outer sheath from a fiber optic pigtail



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Use a fiber optic cable stripper or specialized scissors to carefully remove the outer sheath without damaging the inner fiber.

- Tools Needed
- Fiber optic cable stripper (e.g., CFS-2 or RCS-0425) or wire stripper suitable for 2–3 mm jackets
 - Cable-cutting scissors for aramid yarn or buffer removal
 - Needle-nose pliers (optional) for pulling off the sheath
 - Safety glasses to protect eyes from fiber shards

Step-by-Step Procedure

- Measure and Mark Determine the length of the outer sheath to strip according to your connectorization or splicing requirements. Mark the strip point on the pigtail.
- Adjust the Stripping Tool Set the blade depth on your fiber optic stripper to match the thickness of the outer sheath. For tools like the RCS-0425, rotate the adjustment knob to control cutting depth .

- **Make the Cut** Place the stripper around the cable at the marked point. For spiral or ring-cut tools, rotate the tool around the cable to score the sheath evenly . Ensure the blade only contacts the sheath and not the inner fiber to avoid nicks or scratches .
- **Remove the Sheath** Gently pull off the scored outer jacket using your fingers or needle-nose pliers. The sheath should come off cleanly, exposing the aramid yarn and buffer layers underneath .
- **Trim Aramid Yarn** Use cable-cutting scissors to trim any exposed aramid fibers, leaving the inner buffer intact .
- **Inspect the Fiber** Check the exposed fiber for any nicks or damage. A clean, straight cut ensures reliable performance and prevents future fiber failure .

Tips and Best Practices

- Always strip progressively, removing each layer individually (jacket, aramid yarn, buffer) to avoid damaging the fiber .
 - Keep tools sharp and well-maintained to ensure clean cuts .
 - Perform a bend test on the stripped fiber to detect any hidden damage before connectorization .
 - Work in a well-lit area and wear safety glasses to prevent injury from fiber shards .
- By following these steps and using the proper tools, you can safely and efficiently remove the outer sheath from a fiber optic pigtail while preserving the integrity of the inner fiber.

Article Content

Fiber cable termination

A fiber pigtail is a single, short, usually tight-buffered, optical fiber that has an optical connector pre-installed on one end and a length

Related Video Reference

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