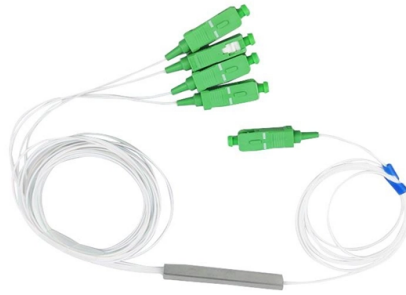


How to install the aluminum sheath inside the optical cable



Overview

1.1 This installation practice describes sheath removal and mid-span access for OFS light armored and armored loose tube cables.

Key Takeaways

Installing an aluminum sheath involves carefully positioning it over the cable core, securing it without damaging the fibers, and ensuring proper alignment with the cable's protective layers.

Preparation

- **Gather Tools and Materials:** You will need a sheath knife, needle-nose pliers, measuring tape, and approved aluminum sheath sections. Ensure all tools are in good working order and approved for field use .

- **Identify Cable Sections:** Mark the cable end where the aluminum sheath will be installed. Typically, the sheath covers the core and buffer tubes, so measure the length according to project specifications .

- **Expose the Cable Core:** If the cable has an existing outer sheath, carefully remove it using a sheath knife. Make a ring cut around the sheath, flex the cable to separate it, and remove the section to expose the ripcord and core .

Installing the Aluminum Sheath

- **Position the Sheath:** Slide the aluminum sheath over the exposed cable core. Ensure the sheath is aligned with the cable's central strength member and buffer tubes to avoid crushing or bending the fibers .

- **Secure the Sheath:** Use binder strings or approved adhesive tapes to hold the aluminum sheath in place. Avoid excessive force that could deform the sheath or damage the fibers inside .
- **Check Alignment:** Verify that the sheath fully covers the intended section of the cable and that no fibers are pinched or exposed. The sheath should sit flush with the outer protective layers if present .
- **Terminate or Continue Cabling:** Once the aluminum sheath is installed, you can proceed with additional protective layers, such as PVC or polyethylene jackets, or continue with cable termination and connectorization .

Best Practices

- **Handle with Care:** Always avoid bending the cable sharply or applying excessive pressure on the fibers during sheath installation .
- **Follow Manufacturer Guidelines:** Different cable types may have specific requirements for aluminum sheath installation, including length, overlap, and securing methods .
- **Safety Precautions:** Wear gloves and eye protection when cutting or handling metal sheaths to prevent injury . By following these steps, the aluminum sheath can be properly installed, providing mechanical protection and shielding for the optical fibers while maintaining the cable's performance and reliability .

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