

How to connect fiber optic cable and cable puller



Overview

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

Key Takeaways

Attach the fiber optic cable to the puller using the cable's strength member and a pulling grip, ensuring proper alignment, secure fastening, and tension monitoring to prevent damage.

Step-by-Step Connection Process



1. **Expose the Strength Member:** Fiber optic cables contain internal strength members (typically Kevlar or aramid yarn) that bear the pulling load. Carefully strip a small portion of the outer jacket to expose these fibers without damaging the optical cores .

2. **Prepare the Pulling Grip:** Use a pulling grip or pull-eye designed for fiber optic cables. For pre-terminated cables, ensure the connector head fits within the mesh sleeve of the grip. For multi-strand or bundled cables, use a grip with an aluminum locking nut to secure the strength member .

3. **Secure the Cable:** Loop the exposed strength member into the pulling eye or mesh sleeve. Double-back and tape or knot the fibers to prevent slippage. Ensure the connector itself is not pulled directly, as this can damage the fiber .

4. **Attach to the Puller:** Connect the pulling grip to the fiber optic cable puller. If using a hydraulic puller like the Condux model, ensure the grip is properly seated on the capstan or pulling mechanism. Set the puller's tension limit according to the cable's maximum rated pulling load .

5. **Monitor Tension During Pulling:** Use the puller's load cell or tension monitoring system to maintain safe pulling tension. Avoid exceeding the cable's maximum tensile load and maintain a straight pull to prevent twisting or bending beyond the recommended radius .

6. **Cable Management:** Lay the cable in a figure-8 pattern on the ground for long runs to prevent twists. Use cable guides to maintain the bend radius and avoid sharp turns. Secure excess cable with velcro straps or cable managers to prevent strain .

7. **Verify Connection Integrity:** After pulling, inspect the cable and connectors for any damage. Test the fiber optic link using tools like OTDRs or visual fault locators to ensure signal integrity .

Safety Considerations

- Never pull on the connector itself; always use the strength member .
- Wear gloves and safety glasses to protect against fiber shards .
- Do not exceed the puller's maximum tension or use the puller to lift people or equipment .
- Follow manufacturer instructions for both the cable and puller to ensure safe and reliable installation . By following these steps, you can safely and effectively connect a fiber optic cable to a puller, ensuring optimal performance and longevity of the fiber network.

Article Content

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Conclusion Connecting fiber optic cables is a precise process that requires careful alignment, clean connectors, and

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