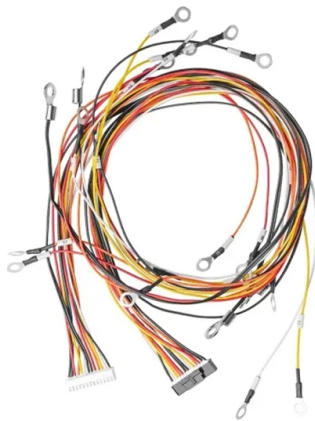


Manual connection of optical cable winder



Article Overview

Manual operation of an optical cable winder requires careful attention to bend radius, tension, and fiber protection to prevent damage.

Understanding the Winder

An optical cable winder is used to manage the connection between a fixed station and a mobile station, allowing the cable to extend or retract as the mobile moves . Unlike electrical cable winders, optical fiber winders must respect strict curvature limits to avoid fiber breakage or signal loss . For multichannel fiber cables, rotating connectors are generally not suitable, so manual guidance of the cable is necessary.

Preparation

- **Inspect the Cable:** Ensure the fiber optic cable is free from kinks, cracks, or contamination. Keep the cable ends capped until ready for connection .
- **Check the Winder:** Confirm the reel rotates smoothly and that the drum is clean and free of sharp edges that could damage the cable .
- **Determine Bend Radius:** Identify the minimum bend radius for your specific fiber type from the manufacturer's datasheet and ensure the winder setup maintains this radius throughout operation .

Manual Winding Procedure

- **Figure-8 Coiling:** When laying out or retracting the cable manually, use a “figure-8” pattern on the ground to prevent twisting. This method introduces a half twist on on...

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FIBER WINDER OPERATION AND

4 Thread the Fiber Cable through the slot and hole provided on the Winder Plate, pull tight so the Fiber Cable sets, and does not slip.

Contact Us

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