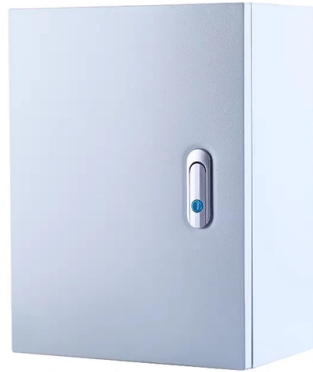


Pulling underground fiber optic cables



AI Overview

Pulling underground fiber optic cables involves careful planning, conduit preparation, tension control, and adherence to safety and manufacturer specifications to ensure long-term network reliability.

Planning and Route Survey

Before pulling fiber optic cables, conduct a comprehensive site survey to determine the optimal route, identify obstacles such as roads, rivers, or rock formations, and plan for future expansion. Inspect existing manholes, ducts, and innerducts to determine splice locations and duct assignments. A detailed installation plan should include cable feed points, intermediate assist points, and pulling or blowing locations.

Conduit and Innerduct Preparation

Fiber optic cables are typically pulled through PVC conduits or innerducts, which may be direct-buried or placed in larger conduits. Innerducts provide a smooth, continuous path and allow multiple cables to share a single conduit. Conduits are usually buried 1-1.2 meters (3-4 feet) deep, with conductive marker tape placed above to aid future location and prevent accidental damage. Directional boring can be used to avoid surface disruption when crossing streets or sidewalks.

Cable Pulling Techniques

Cables can be installed using manual pulling, cable jetting (blowing), or mechanical...

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Underground Fiber Optic Cable Installation Steps Check the specification and dimension of manholes, ducts and pulling ropes. 2)

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1.02 Placement methods for direct buried fiber optic cable are essentially the same as those used for placing direct buried copper

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Underground Cable Installation

However, fiber optic cable is a high capacity transmission medium which can have its transmission characteristics degraded when

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Check the cable length to make sure the cable being pulled is long enough for the planned cable run. Try

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The following items are key considerations in preparation for installing the fiber optic cable when the construction is ready for cable

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Pulling Fiber Optic Cable in Conduit

Note: The Corning recommendation for one cable exceeds the NEC recommendation (53%). Corning has

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Alternative methods of deploying underground fiber cables includes using storm water drains and sewers,

Contact Us

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