

Pulling mobile fiber optic cable



Article Overview

Proper fiber optic cable pulling requires careful preparation, controlled tension, and adherence to bend radius and strength member guidelines to prevent damage and ensure long-term network performance.

Preparation Before Pulling

Before pulling any fiber optic cable, plan the route and inspect the pathway for obstacles, sharp edges, or tight bends that could stress the cable (). Ensure ducts, conduits, or trays are clear and lubricated if necessary. Record cable identification markings, including sheath number, footage, and type, for future reference (). Despool the cable carefully, avoiding twists or spinning over the spool edge, which can damage the fragile glass fibers ().

Using the Strength Member

Fiber optic cables contain strength members (typically Kevlar or aramid yarn) that carry the installation load. Always pull the cable by the strength member rather than the outer jacket to prevent stretching or tearing (). Expose the strength member by stripping a small portion of the jacket, then loop it inside a cable pull-eye and secure it with tape or a knot ().

Pulling Force and Tension

Maintain pulling tension within the manufacturer's specified limits. For example, outdoor ruggedized cables may support up to 600 lbs, while indoor micro-distributio...

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Every fiber optic cable has a specific maximum pulling tension rating, usually measured in Newtons (N) or

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This article explores the factors that influence the pulling distance of fiber optic cables, guidelines for safe installation,

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The Basics of Pulling Fiber

Fiber Optic Tools Used: SmartHome Data SureStrip Fiber Optic - Tools The good news is that Cables Plus has the

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Each fiber cable has an inner wrap of Kevlar, which is bulletproof vest and helmet material. This Kevlar wrap

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