

RIVO MULTITRADE OPTICAL SYSTEMS

Electric fiber optic cable pulling



Overview

Fiber Optic Cable Pullers The Fiber Cable puller is a simple, easy to use cable puller that is designed to accommodate industry standard sheaves of 9", 24".

Key Takeaways

Proper fiber optic cable pulling requires using the cable's internal strength members, respecting bend radius and tension limits, and employing specialized electric or battery-powered pullers for safe, efficient installation. Key Best Practices

Use the Strength Member: Fiber optic cables contain internal kevlar or aramid yarn strength members that provide pull strength of 100-200+ pounds. Always pull the cable by these internal fibers rather than the outer jacket, which can stretch, tear, or compromise connector terminations if stressed (). Expose and Secure the Yarn: Remove a small portion of the outer jacket with a cable stripper to expose the strength member. Loop the yarn into a cable pull-eye, double-back, and tape or knot it securely to prevent slippage during the pull (). Respect Bend Radius: Modern bend-insensitive fiber cables have minimum bend radii as low as 4.4 mm, but older cables may require 30 mm or more. Always avoid sharp bends to prevent microbending or breakage (). Monitor Tension and Sidewall Pressure: Pulling tension, conduit radius, and fill ratio affect sidewall pressure, which can crush the cable. Maintain tension below manufacturer-specified limits and use breakaway pull swivels or electronic tension monitoring when available ().

Electric and Battery-Powered Pullers

GMP SideWinder Puller: Trailer-mounted, battery-powered, with a 32-42 inch capstan, providing controlled force for underground cable installation. Features include adjustable tension, remote control, and smooth conduit transitions (). eCapstan Puller: Quiet, battery-powered, variable speed, suitable for indoor use with no emissions. Offers push-button force selection and can operate all day on a single charge (). TUF-Lugger Lite Electric Winch: Lightweight, portable, and compatible with standard sheaves, providing a simpler alternative to hydraulic pullers for fiber optic cables (). Hydraulic Pullers: Provide variable speed, overload protection, and adjustable pressure relief for high-density or long-distance pulls ().

Additional Considerations

- **Conduit Planning:** Avoid tight angles, jamming, and overfilling. Use fiber-specific sheaves to minimize stress during transitions ().
- **Cable Type:** Pre-terminated simplex, duplex, or active optical cables may require specialized pulling tools like the Cleerline SSF-PULLEYED, which reduces twisting and protects connectors ().
- **Safety:** Always follow manufacturer guidelines for maximum pulling tension, bend radius, and conduit fill to prevent damage and ensure long-term performance (). By following these practices and using appropriate electric or battery-powered pullers, fiber optic cable installations can be performed efficiently, safely, and with minimal risk of damage.

Article Content

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Fiber Optic Cable Installation and Handling Instructions

Introduction Fiber optic cables can be easily damaged if they are improperly handled or installed. It is imperative that certain

101 Guidelines for Fiber Optic Cable Installation

Never directly pull on the fiber itself. Fiber optic cables have Kevlar aramid yarn or a fiberglass rod as their strength member. You

FO Cable Pulling Method Statement

This document provides a work method statement for fiber optic cable pulling that outlines 33 steps to safely pull cable. Safety

The FOA Reference For Fiber Optics-Installing Fiber Optic Cable

The normal recommendation for fiber optic cable bend radius is the minimum bend radius under tension during pulling is 20 times the

SimpleGrip Fiber Cable Pulling Eye Hook

SimpleGrip Fiber Cable Pulling Eye | Ideal for installing pre-terminated fiber cables through conduit and inside walls.

GMP SideWinder 42in Capstan | GMP Cable Pulling | Budco Cable

Description The GMP 70751SideWinder Trailer-Mounted Fiber Optic Puller has been meticulously crafted to surpass the demands of

Fiber Optic Pullers for Distribution

Timberland Equipment designs and builds a complete range of small and large pullers for fiber-optic applications, including truck-

The Zinger Tool

The Zinger is designed to be used with a cordless or electric drill to assist in pushing or pulling fiber optic

Related Video Reference

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