

Precautions for optical cable laying using air blowing method



AI Overview

Ensure proper cable handling, controlled air pressure, duct integrity, and pre-installation testing to prevent damage during air blowing installation.

Cable Handling and Preparation

Check cable specifications: Use cables suitable for air-assisted installation, including uni-tube, multi-tube, armored, or microduct cables, and ensure they meet the manufacturer's design ratings for tensile strength, bending radius, and crush resistance.

Avoid excessive bending: Maintain the cable's minimum bending radius to prevent microbending or macrobending losses.

Temperature considerations: Avoid installing cables in extremely cold conditions, as the jacket may become brittle, and cold air can condense or freeze, potentially damaging the cable.

Low-friction surfaces: Use cables with low friction coefficients or apply approved lubricants to reduce resistance inside the duct.

Equipment and Installation Setup

Blowing head and seals: Attach a properly sized blowing head ("bullet") that matches the cable diameter to ensure a tight seal and efficient air flow.

Compressor settings: Use the minimum air pressure required to float the cable through the duct. Excessive pressure can damage the cable jacket or cause buckling.

Tractor mechanism: Apply mechanical pushing force near the cable inlet using traction rollers, but avoid exceeding the maximum pushing force determined by pre-installation crash tests.

Pre-Installation Testing

Crash test: Push the cable into a short, sealed duct section to determine the maximum safe pushing force without damaging the cable jacket or causing buckling.

Duct integrity check: Ensure ducts are continuous, properly joined, and pressure-tested to prevent air leaks that reduce blowing efficiency.

Operational Precautions

Monitor cable movement: Continuously observe cable progress to detect any signs of buckling, excessive friction, or obstruction.

Control air flow: Gradually i...

Article Content

Fibre Optic Cable Blowing & Splicing Guide

It discusses the purpose and scope of the work, methods for installing fibre optic cable into HDPE ducts including cable blowing principles, factors influencing blowing, requirements for blowing chambers

Optical Fiber Cable Optical Fiber Cable In

All Fiber Optic Cable reels should be stored upright Laying the reel on its side may cause damage to the reel flange and/or cause the cable layers to shift – This may cause cable to snag during de-reeling.

Installation of Optical Fiber Cable by Blowing/Jetting

ABSTRACT This application note discusses fiber optic cable installation by blowing technique, the factors effecting blowing performance and best practices.

Pulling and blowing a cable in a duct

The installation of optical fibre cable in duct is becoming the most popular installation method in the FTTH networks; from pulling to air jetting the network builder has the choice but the trend to reduce

Qualifying cable blowing performances

Blowing in is a commonly used method for installing fibre optic cables in Europe. Find out how you can increase the probability of success when blowing in a

Microduct Cable Air-Assisted Installation Considerations

Both methods require pushing the cable with a tractor mechanism while blowing compressed air into a pre-installed duct around the cable being installed. Both rely on airflow to help “float” the cable inside

ITU-T Rec. L.156 (03/2018) Air-assisted installation of optical fibre ...

Recommendation ITU-T L.156 describes air-assisted methods for installation of optical fibre cables in ducts. These methods can be used to install microcables into microducts, or larger cables into ducts

HOW TO INSTALL FIBER OPTIC CABLE

How To install optical fiber cable, we recommend using Jetting fiber blowing machines for the task. Follow our step-by-step guide.

Air-Assisted Installation Considerations

Maintaining cool air temperature and low humidity in the duct is critical to achieve maximum jetting or blowing distance and speed and will reduce the risk of damaging cable.

Technical Points Of Cable Jetting Project

Fiber cable blowing is a safe and effective optical cable laying method. During the cable laying process of the cable blowing machine, the

Fibre Optic Cable Blowing & Splicing Guide

This document provides a method statement for fibre optic cable blowing by jetting method and splicing/testing. It discusses the purpose and scope of the work,

Understanding the Installation Process for Fiber Optic

What are the benefits of using a fiber optic cable blowing machine? Using a fiber optic cable blowing machine allows for faster installation and fewer

Installation precautions for air-blown fiber cables.

Check whether the microduct is always filled with internal air pressure during the air blowing process. Check whether the equipment thrust exceeds the designed microduct tensile load.

How to Blow Fiber Optic Cable: A Comprehensive Fiber Jetting Guide

Unlike traditional pulling methods, fiber blowing minimizes friction, reduces labor costs, and increases installation speed.

Fiber Optic Cable Blowing Procedure: Full Guide (2024)

Learn the fiber optic cable blowing procedure with our detailed guide, covering essential steps, equipment, and best practices for efficient installation.

How To Blow Fiber Optic Cable

Blowing fiber optic cable, also known as air-blown fiber installation, is an efficient and effective method of installing fiber optic cables in ducts over long distances. The process involves

Duct Installation of Fiber Duct Cable Pulling & Air

Under this condition, the fiber cable needs to be stored in coil form at each manhole/handhole available at every 200 to 300 meters. Hence, fiber optic

Presentation

Cable blowing is the process of installation of optical fiber cable into a pre-installed duct. Compressed air is injected in the duct inlet after few hundred meters of cable is pushed into the duct.

Blown Fiber Installation: Essential Guide & Expert Tips

Blown fiber involves inserting fiber optic cables into pre-installed micro ducts using compressed air. This method is highly efficient for covering long

OFC Blowing Procedure and Specifications | PDF

OFC cable blowing procedure748-753 - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document provides specifications for laying

Fiber Optic Cable Duct Installation Guide

This document provides guidelines for installing fiber optic cable into an underground duct using either a pulling or air blowing method. It outlines general precautions to prevent cable damage such as not

Pulling and blowing a cable in a duct

Readers of this document are encouraged to seek information on specific matters regarding Optical cables and components from the manufacturer or provider and to consider the Technical Standards

NOC and OC& I 2006 Cable Blowing, Cable Floating,

The document discusses two methods for installing optical fiber cables (OFC) in ducts: Cable Blowing and Cable Floating. Cable Blowing uses compressed air to

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