

RIVO MULTITRADE OPTICAL SYSTEMS

Outdoor optical cable can be blown



Overview

Outdoor Optical Fiber Cable The Central Loose Tube Micro Air Blown Cable features a central loose tube structure that protects optical fibers while allowing.

Key Takeaways

Yes, outdoor optical fiber cables can be installed using the blowing method, which uses high-speed airflow to push the cable through pre-installed ducts. Overview of Cable Blowing

Blowing, also known as jetting, is a method for installing fiber optic cables into ducts or conduits by combining a mechanical pushing force with high-speed compressed air. This technique reduces friction between the cable and the duct, allowing long lengths of cable to be installed efficiently without excessive tension. It is particularly suitable for loose tube cables, microcables, and microduct systems designed for air-assisted installation.

Suitable Cable Types

- Loose tube cables: Commonly used for outdoor duct installations; can be blown, jetted, or pulled.
- Microcables and miniaturized cables: Smaller diameter cables that reduce friction and allow higher fiber counts in limited duct space.



- Standard optical fiber cables: Uni-tube, multi-tube, armored, or unarmored cables can also be installed using blowing, depending on their stiffness and construction .

Installation Procedure

- Preparation: Push several hundred meters of cable into the duct using a mechanical pusher or tractor mechanism.
- Air Injection: Compressed air is introduced at the duct inlet, creating a high-speed airflow that helps the cable “float” inside the duct, reducing contact friction .
- Blowing Head: The cable is attached to a blowing head with seals that grip it, ensuring controlled movement through the duct .
- Monitoring: Air pressure and pushing force must be carefully controlled to prevent damage to the cable jacket or fiber breakage. Temperature and duct size are also critical factors .

Advantages

- Allows installation of long cable lengths without splicing.
- Reduces mechanical stress on the fiber, preserving optical performance.
- Enables installation in complex duct routes, including bends and undulations.
- Compatible with high-density microduct systems for scalable network expansion .

Precautions

- Use cables with low friction coefficients to minimize required air pressure.
 - Avoid excessive pushing force to prevent buckling or sheath damage.
 - Ensure the duct is slightly larger than the cable for smooth installation.
 - Consider environmental factors such as temperature, as cold conditions can make the cable brittle .
- In summary, blowing is a widely accepted and effective method for installing outdoor optical fiber cables, especially in ducted environments, and is compatible with a variety of cable types designed for air-assisted deployment. Proper preparation, cable selection, and careful control of air pressure and pushing force are essential for a successful installation.

Article Content

Outdoor Optical Fiber Cable

The Central Loose Tube Micro Air Blown Cable features a central loose tube structure that protects optical fibers while allowing for

Outdoor Fiber Optic Cable | Outside Plant Fiber (OSP) Cable

Ducts (or conduits) offer a highly protective environment for fiber-optic cables. They are typically buried outside, and then the cables

B-LN | CommScope

Fiber Optic Cable, Outdoor Micro Cable for Air-blown installation, Stranded Loose Tube All-Dielectric. ... Click on image to enlarge.

What bad weather can outdoor optical cables deal with

In this article, we will discuss the types of bad weather that outdoor optical cables are designed to deal with, and the

NEW Enterprise Blown Fiber (eABF) Cable

Enterprise Blown Fiber (eABF) Cable own fiber solution in the market today. The patent pending cable design combines a light

Installation of Optical Fiber Cable by Blowing/Jetting

Standard optical fiber cables (like uni-tube, multi-tube, unarmored & armored), micro duct cables, and micro-ducts can be installed by

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

Duct Cables | Air Blown Fiber Optic Cable Ducts | Corning

Ducts (or conduits) offer a highly protective environment for fiber-optic cables. They are typically buried, and then the cables are air

Fiber Blowing Technology Explained

Understanding the Air Blown Fiber Installation Principle Air blown fiber installation uses a combination of pulling force,

The FOA Reference For Fiber Optics

Today, air blown fiber (ABF) systems are well developed, available from multiple vendors and some installers are trained and

Air-Assisted Installation Considerations

Corning Optical Communications field trials have confirmed that a single air-assisted device can install 1500 to 2100 meters (5000 to

A comparison of conventional fiber and blown cable

Blown cable has four components: 1) microduct, 2) the blowing apparatus, 3) the optical-fiber bundles, and 4) 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

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Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside, from

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

Fiber Optic Outdoor Cables

Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside, from

How To Blow Fiber Optic Cable

Key Considerations Cable Bend Radius: Always maintain the minimum bend radius of the fiber optic cable to avoid

Fiber Outside Plant Cables

Fiber Outside Plant Cables CommScope outside plant fiber optic cables are meticulously designed to withstand the rigors of outdoor

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