

Air-blown optical cable models and specifications



Overview

Leviton Air Blown Fiber Systems offer solutions for internal and external applications with their market leading BLOLITE™ and MICRBLO™.

Key Takeaways

Air-blown optical cables are lightweight, high-capacity fiber cables designed for installation via compressed air, offering flexible deployment, low friction, and robust mechanical and optical performance. General Features Air-blown optical cables are engineered for long-distance fiber deployment using compressed air, with small diameters, light weight, and low sheath friction to maximize blowing distance and installation efficiency. Key features include: Mechanical Strength: Aramid yarn or central strength members provide tensile load support and resistance to bending.

Environmental Protection: Water-blocking components, UV-stabilized jackets, and flame-resistant options for riser and plenum applications. Flexible Fiber Deployment: Fibers can be added or replaced without disturbing the duct system, supporting modular network expansion. Fiber Types and Optical Parameters Air-blown cables support both single-mode (SMF) and multimode (MMF) fibers, with specifications for attenuation, bandwidth, and Ethernet compatibility: Fiber Type Max Attenuation (dB/km) Min Bandwidth (MHz·km) 10G Ethernet Max Distance (m) 40/100G Ethernet Support OM1 62.

5/1253. 5 @ 850 nm 200300 Yes OM2 50/1253. 5 @ 850 nm 500600 Yes OM3 50/1253.

0 @ 850 nm 15001000 Yes OM4 50/1253. 0 @ 850 nm 35001040 Yes SM OS2 (G. 652D/G.

657. A1)0. 4 @ 1310/1550 nmN/AN/AYes Bend-insensitive fibers (BIF) are commonly used to reduce signal loss in tight bends.

Mechanical and Physical ParametersAir-blown cables are available in various fiber counts and diameters, with typical mechanical specifications: ModelFiber CountNominal Diameter (mm)Weight (kg/km)Max Tensile Load (Short/Long Term, N)Min Bend Radius (Short/Long Term, mm)ENT-A SM-663. 69. 5445 / 13330 / 20ENT-A SM-24243.

6-3. 811-14445 / 13330 / 20ENT-A SM-72724. 520.

81600 / 45090 / 45ENT-A SM-96964. 523. 81600 / 45090 / 45 Cables are designed for micro-duct compatibility, often fitting 6 mm ID ducts, enabling high-density fiber pathways.

Construction and DesignAir-blown cables typically feature: Loose Tube or Central Tube Design: Fibers are color-coded and gel-filled for protection.

All-

Dielectric Construction: No metallic components, suitable for environments requiring non-conductive cables. Outer Jacket: PE or LSZH materials, UV-stabilized, and water-blocked for durability. Ripcords: Facilitate easy jacket removal during installation.

Applications

Data center interconnectsHorizontal and backbone distributionLow-cost fiber upgrades and migrationInternal and external micro-duct systems Installation AdvantagesBlowing Distance: Long-distance fiber deployment without splicing. Modular Expansion: Fibers can be added later without replacing the duct. Reduced Labor and Cost: Faster installation and lower material handling requirements.

Air-blown optical cables provide a highly flexible, reliable, and scalable solution for modern fiber networks, combining mechanical robustness, optical performance, and ease of installation.

Article Content

Air Blown Optical Fiber Cable

Leviton Air Blown Fiber Systems offer solutions for internal and external applications with their market leading BLOLITE™ and MICRBLO™. The use of Air Blown Fiber Systems gives complete freedom

Air Blown Fiber

Air blown fiber (ABF) has long been a flexible alternative to traditional structured cabling, allowing organizations to maximize future network moves, adds and changes while minimizing disruption to

(ABF)Air-Blowing Optical Fiber Cable – HRI Connect

Air-blown micro cables use air-blown laying methods to connect optical branch points and user access points. The optical cable has good mechanical and

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-blown, jetted, pulled or pushed

Air Blown Unitube Cable | Cost-Effective Fiber Network Upgrade | HFCL

Boasting a central loose tube, small diameter, rugged UV-stabilized jacket, and ultra-thin construction (2 fibers-24 fibers), these fiber optic cables deliver flexibility and protection. Effortless installation in

Specification Sheet G657A1 Air Blown Optical Fiber Cable ...

G657A1 Air Blown Optical Fiber Cable ... Registered Office E 1, MIDC Industrial Area, Waluj, Aurangabad, Maharashtra, India – 431 136

eABF Enterprise Air Jetted fiber optic cable | AFL EMEA

eABF cables are designed by AFL to offer the most rugged and reliable enterprise-based blown fiber solution in the market today. The patent pending cable design combines a light-weight, high-drag

Enterprise Blown Fiber Solutions

The patent pending cable design combines a light-weight, high-drag jacketing system that allows the cable to be blown long distances. The cable series also features additional attributes that set this

VOYGAR Super Mini Air blown Fibre Cable.

VOYGAR supplies various types of air blown cable. Its main product is central tube air blown cable and layer stranding air blow cable which has absolutely technical advantage in Korea and equivalent air

B-LN | CommScope

CommScope's outside plant fiber cables are made with high-performance, standards-compliant materials. The portfolio includes both armored and dielectric designs available with dry or gel-filled tubes.

Air Blown Fiber Optic Cable Solution And Manufacturer

Professional manufacturing for fiber optic cables and on-demand cable specs. Request an air blown fiber quote today.

24F Atlas Lite Air Blown Optical Fiber Cable

Product Details STL Airblown Fibre Optic cable is generally used in FTTx applications. It features light weight and small diameter specifically designed for metro feeder or access networking,

OSP MicroCore Fiber Optic Cable | High-Density Solutio | AFL Global

Discover AFL's OSP MicroCore® fiber optic cables, designed for high-density applications. These compact cables can be blown into crowded ducts, expanding existing infrastructure capacity for cost

Understanding Air Blown Fiber Cables | Fiber Xpress Mart

As air blown fiber optic cables continue to gain traction within the industry, understanding their design and benefits becomes essential for both professionals and consumers alike. This introductory

Air-Blown Micro Cable

Air-blown micro cable Product flyer Stranded loose tube all-dielectric CommScope's family of cost-effective fiber-optic micro cables is designed for installations air blown into microducts. Microduct

Air blown cable

This specification specifies the product classification, model, structure, technical parameters and test methods of optical and optical cables for communications, as well as the packaging and storage

Air-blown Optical Fiber Cable (GCYFY)

HONGKAI's air-blown optical fiber cable line delivers efficient production, high quality, and adaptability for next-gen network installs.

Air Blowing Micro fiber Optic Cable

The cable is also applicable in backbone networks, metropolitan area networks and access networks Air Blowing cable technology is a new way to make significant improvements in

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

