

A complete range of aerial optical cables



Overview

Just click on a catalogue, browse through our product ranges and/or download it. We offer loose fiber optic cables for aerial installations and high fiber density. Available with single or double sheath.

Key Takeaways

The main types of aerial optical cables are ADSS, Figure 8, and OPGW, each designed for specific installation and environmental conditions.

Overview of Aerial Optical Cables

Aerial optical cables are designed for overhead installation, suspended between utility poles, towers, or other supports. They are widely used in urban, rural, and mountainous areas where underground cabling is difficult or costly. These cables must withstand wind, ice, UV radiation, extreme temperatures, and mechanical tension while maintaining stable optical signal transmission.

They support both single-mode and multi-mode fibers, with single-mode being predominant for long-distance, high-bandwidth communication. Classification by Installation and Structure Aerial cables are primarily divided into self-supporting and catenary (suspension) types: Catenary Type: Suspended on a messenger wire that carries the tension, suitable when an existing support wire is available.

Self-

Supporting Type: The cable itself carries the tension, allowing long spans between poles without additional support.

Common Types of Self-

Supporting Aerial Cables
ADSS (All-Dielectric Self-Supporting) Made entirely of non-metallic materials, providing electrical insulation. Can be installed near high-voltage power lines without risk of electrical interference. Features: lightweight, high tensile strength, resistant to lightning and electromagnetic interference.

Applications: overhead high-voltage transmission systems, long-span installations, and areas prone to lightning strikes. **Figure 8 Cable** Named for its cross-sectional shape resembling the number 8, with a messenger wire integrated alongside the fiber core. Features: high mechanical strength, water resistance, UV resistance.

Variants include: **GYTC8S**: Fibers in corrugated steel pipes for mechanical protection. **GYXTC8Y**: Loose tube design, water-blocking and waterproof. **GYXTC8S**: Combines steel tube protection with loose tube water-repelling properties.

Applications: general overhead fiber deployment, long spans, and areas requiring robust mechanical protection.

OPG

W (Optical Ground Wire) An all-metal cable that combines optical fibers with grounding functionality. Protects power lines from lightning while providing a high-speed fiber backbone. Applications: high-voltage transmission lines, smart grid communication, and dual-purpose power and data transmission.

Advantages and Considerations

Advantages: Lower construction cost than underground cables, faster deployment, flexible terrain adaptation, and suitability for long-distance spans. Considerations: Exposure to environmental hazards, potential visual impact, and the need for regular maintenance. These aerial optical cable types are essential for modern telecom networks, power grid communication, and rural broadband deployment, offering a balance of mechanical strength, environmental resistance, and optical performance.

Article Content

Aerial Fiber Optic Cables | OPTRAL

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Aerial Fibre Optical Cables | Prysmian

Prysmian offers an extensive range of aerial optical cables focusing on the need for high reliability along with cost efficiency. Cables are available in a wide mix of fibre counts, fibre types and mechanical

Aerial Cable | Outdoor Cable Technology| Corning

These cables can be installed in short spans between aerial poles without a separate messenger upon which to attach the optical cable. Also available in mid- and long-length spans.

Aerial Cable

YOA Cable offers a comprehensive range of aerial self-support cables. These are used in aerial pole drop applications for last mile FTTX networks, optical access

Aerial fiber optic cable offering OPGW, ADSS, Skywrap | AFL Global

As the leading world manufacturer of fiber optic cable, AFL is uniquely positioned to provide a full line of all-dielectric self-supporting (ADSS) aerial cables and Optical Ground Wire (OPGW) as well as

AERIAL SELF-SUPPORT CABLE RANGE

YOA Cable manufactures a diverse portfolio of aerial self-support cables, ranging from aerial FTTX drop cable to low cost informal settlement aerial access cable, and traditional ADSS cable.

AERIAL FIBER OPTIC CABLE

AFL's products are in use in over 130 countries and include fiber optic cable and hardware, transmission and substation accessories, outside plant equipment, connectivity, test and inspection equipment,

Optical Cables

Our complete selection of single-mode, multi-mode and speciality optical fibre cables have been designed, developed, manufactured and tested to meet even

Aerial Optical Cables

We offer connectors and adapters, optical distribution equipment, FTTX and aerial access networks elements and many more.

Fiber Optic Cable and Splice Closure Solutions | Corning

RocketRibbon® Cable and 2178-XL Closures Our Fiber Optic Splice Closure 2178 family is ideal for our RocketRibbon® and SST-Ribbon™ cables. The solution

Optical Fibre Cables – Verified B2B Suppliers | Europages

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Product Spec Sheet 012EUB-T4101D20

012EUB-T4101D20 Corning ALTOS® figure-8 gel-free cables are self-supporting aerial cables designed for easy and economical one-step installation. The loose tube design provides

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21 Companies and suppliers for dominic+armored+optical+cable+manufacturer Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

ADSS Fiber Optic Cable Specifications Explained | Structure ...

Explore the complete specifications of ADSS fiber optic cables, including structure details, mechanical performance, optical characteristics, and environmental resistance. Learn how to choose

How to Choose the Best 6 Core Fiber Optic Cable: A

How to Choose 6 Core Fiber Optic Cable Follow this step-by-step checklist to select the right cable: Determine Application Environment: Is the

Tight-Buffered Distribution Cable GJPFJV Round Multi-core Kevlar ...

Core Products & Advantages We specialize in a complete range of optical cables and accessories for end-to-end FTTX projects: Indoor Optical Cables: Optimized for patchcord processing, delivering

What Damages Fiber-Optic Cables? Key Risks and Mitigation Strategies

Learn the top causes of fiber-optic cable damage (mechanical stress, environmental hazards, wildlife, human error) and how to protect your fiber infrastructure from costly outages.

Product Spec Sheet 012TU4-T4790D20

012TU4-T4790D20 Corning ALTOS® cable with FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed

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