

Outdoor Single-mode Dual-core Fiber Optic



AI Overview

A single-mode dual-core outdoor fiber optic cable is designed for high-speed, long-distance data transmission in harsh outdoor environments, featuring two optical fibers, robust armoring, and weather-resistant jackets.

Key Features

Fiber Type and Mode: These cables use OS2 single-mode fibers (9/125 μm), optimized for long-distance transmission at 1310nm and 1550nm wavelengths, supporting data rates from 1G to 100G and beyond .

Fiber Count: Dual-core or 2-fiber configuration allows for bidirectional communication or redundancy in outdoor networks .

Armoring and Strength: Outdoor cables often include steel wire or metal armor to protect against rodents, mechanical stress, and environmental hazards. Some designs use stainless steel woven mesh or corrugated steel for dual-layer protection .

Jacket Material: Jackets are typically made from TPU, LSZH, or UV-resistant polyethylene, providing waterproofing, UV resistance, abrasion resistance, and temperature tolerance from -40°C to $+70^{\circ}\text{C}$.

Mechanical Properties: These cables are engineered for high tensile strength (up to 600 N short-term), crush resistance, and minimum bend radius (15D long-term, 30D short-term), ensuring durability during installation and operation .

Installation Options: Suitable for direct burial, aerial deployment, or duct installation, with some pre-terminated cables featuring pulling eyes or uniboot connectors for easier handling .

Connector Types: Common connectors include LC to LC duplex, with options for UPC or APC polish, enabling low insertion loss (≤ 0.3 dB) and high return loss (≥ 50 dB) for reliable signal integrity .

Environmental Resistance: Designed to withstand temperature extremes, moisture, UV exposure, and mechanical stress, making them ideal for FTTH networks, industrial sites, and outdoor telecom infrastructure .

Applications

FTTH (Fiber to the Home) deployments for residential or...

Article Content

Outdoor Single Mode FTTH Drop Fiber Cable

Broadstick provides high quality fiber optic cables compliant with TIA 568-C.3-1. This Outdoor Single mode FTTH Drop Fiber Optic Cable provides a proper connection for FTTH networks, the operation

Produsen kabel patch fiber optik | Pemasok kabel patch fiber optik ...

Kami menyediakan layanan kabel fiber optik pra-terminasi: Opsi serat optik mode tunggal SM dan multi mode MM Beragam jenis konektor dan kabel tersedia. Panjang kabel dibuat sesuai kebutuhan

How Many Core In Fiber Optic Cable Do I Need

The number of optical cores in an optical fiber is the total number of equipment interfaces multiplied by 2, plus 10% to 20% of the spare quantity, and

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10 Best Fiber Optic Media Converters (May 2026)

Discover the best fiber optic media converters in 2026. Our experts tested 10 top models for reliability, performance, and value. Complete buying

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Kabel Patch Serat Optik ODC ke 4xLC G657A1 5.0mm LSZH Outdoor Armored ODC Kabel Patch Outdoor Lapis Baja 2 Inti LC ke LC Singlemode G657A2 550m Kabel Patch Serat Optik Kabel Patch

10 Best Fiber Optic Fusion Splicer Machines (June

Discover the 10 best fiber optic fusion splicer machines (June 2026). Our expert reviews highlight reliable, high-precision splicers ideal for efficient

Outdoor Single Mode GYXTW G652D Fiber Optic Cable

The GYXTW fiber optic cable adopts a compact armored uni-tube design for outdoor environments. The structure helps improve moisture-proof performance, crush

Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire-rated indoor fiber cables.

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Fiber Optic Indoor/Outdoor Cables

Our indoor/outdoor cables meet rigorous outdoor environments and can be routed indoors where flame rating applies, eliminating transition splices.

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

These are the outdoor fiber optic cables you see strung along telephone poles (aerial), installed inside an underground duct, or even buried directly below ground.

WebProcure

WebProcure offers best-in-class functionality, reaching end-to-end from requester to procurement buyer to merchant, and all the way back! Designed specifically for the public sector.

HTF DWDM equipment,OTN Solution,QSFP28 OSFP

HTFuture offers industry-leading fiber optic products and WDM system solutions with global recognition for excellence and innovation.

Armored Fiber Optic Cables

For outdoor applications, employ Fiber Savvy's Outdoor Fiber Optic Cable to achieve a clean and simple outdoor installation, free of harm caused by rodents

The Key Differences Between 1-core, 2-core, Single

Single Mode fibers have a smaller core, allowing light to travel in a single, straight path, ideal for long distances with less signal loss. Multi-mode

OS2 Single Mode Fiber Optic Cables, SMF Duplex Cables

Get OS2 single mode duplex fiber patch cables for 1G/10G/40G/100G/400G Ethernet fiber connections to transport data up to 10km at 1310nm and 40km at 1550nm.

10 Best Loose Tube Fiber Optic Cables (July 2026)

Discover the best loose tube fiber optic cables for outdoor runs with our 2026 guide. We tested 10 models for performance, protection and value.

Fiber Drop Cables

Fiber Optic Cable, Drop, Outdoor Arid Core Gel-Free Tubes, Double Jacket Dielectric

FLYPROFiber

High-Speed Performance--- The OS2 LC to LC Industrial TPU outdoor fiber optic

Threlaco 500ft (150 Meters) Fiber Lc to Lc Outdoor

Low Insertion Loss and High Back Reflection: our 500ft (150 meters) single mode
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Optical Fiber Single-Mode Fiber G.657A2 (208)

Datasheet: GD059734v7 SPECIFICATION FOR ENHANCED LOW MACROBENDING
SENSITIVE, LOW WATER PEAK SINGLEMODE OPTICAL FIBER ITU-T RECOMMENDATION
G.657A2,

Indoor Outdoor Fiber Optic Cables

Tightly buffered in a flexible, black, in/outdoor, water & UV resistant jacket, this fiber
optic assembly comes with durable ceramic ferrule LC fiber connectors with

Contact Us

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