

Indoor dual-core single-mode fiber optic cable



AI Overview

A single-mode dual-core indoor fiber optic cable is a duplex cable designed for long-distance, high-speed data transmission within buildings, featuring two parallel single-mode fibers in a single jacket. Overview Single-mode dual-core (duplex) fiber optic cables consist of two single-mode fibers, typically with a 9 μm core diameter and 125 μm cladding, enclosed in a single jacket for indoor use. Each fiber carries a single light mode, minimizing signal dispersion and allowing high-bandwidth transmission over long distances. These cables are ideal for enterprise networks, data centers, and telecom backbones where reliability and low attenuation are critical. Key Features Fiber Type: Single-mode (OS1 for indoor short-range, OS2 for longer distances) supporting 1310 nm and 1550 nm wavelengths. Construction: Duplex or zipcord design with two fibers side-by-side, often with a mid-span separable web for easy termination. Jacket and Rating: Indoor plenum-rated (OFNP) or riser-rated (OFNR) jackets, often LSZH for low smoke and flame resistance. Strength Members: Aramid yarn or Kevlar reinforcement for tensile strength and durability during installation. Bend-Insensitive: Many modern cables use G.657.A1 fibers, allowing tight bends (minimum radius ~ 10 mm) without signal loss. Performance Attenuation: Typically ≤ 0.4 dB/km at 1310 nm and ≤ 0.3 dB/km at 1550 nm. Bandwidth: Supports 1G to 400G applications depending on network equipment. Distance: OS1 cables can reach up to 10 km indoors, while OS2 can extend up to 40 km or more with proper equipment. Connectors: Compatible with LC, SC, ST, or FC connectors; pre-terminated options are available for plug-and-play deployment. Applications Data Centers: Horizontal and backbone cabling for high-speed Ethernet (10G/25G/40G/100G). Enterprise Networks: Multi-floor or intra-building connections....

Article Content

6M FC-SC Duplex Singlemode Fiber Optic Cable 9/125 Indoor/Outdoor

6 Meter Length Singlemode (9/125) Indoor/Outdoor FC-SC Duplex 2 strand Fiber Optic Cable.

Single-mode OS1/OS2 Duplex Zipcord Fiber Optical Cable

Abalone Tech's duplex zipcord single-mode fiber (SMF) cable consists of two optical fibers arranged side-by-side in a single jacket with a mid-span "zip" separation

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Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic

Indoor Flat fibre drop cable LSZH Single mode 2 Core

Inside the subscriber's home, messenger wire can be removed and the cable is stapled on the wall. Suitable for indoor installations in which a very small cable is

Fiber Drop Cables

Fiber Indoor/Outdoor Drop Cable, LazrSPEED®, Low Smoke Zero Halogen Single Jacket All-Dielectric Arid-Core, 6 fiber, Gel-filled, Multimode OM3, Feet jacket marking, Black jacket color, Dca flame rating

TLC Distribution Fiber Optic Cable with Aluminum Interlocking Armor, 6

OverviewThis distribution-style fiber optic cable features 6 optical fibers constructed with a 900um tight buffer. The cable is reinforced with aluminum interlocking armor to provide physical protection for the

Fiber Optic Cable Types | Omnitron Systems Guide

Explore fiber optic cable types, features, and applications. Omnitron Systems explains single-mode, multi-mode, and specialty fiber solutions.

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.

48 Core Fiber Optic Cable GYTY53 Outdoor Armored

48 Core Fiber Optic Cable GYTY53 Outdoor Armored Double Jacket Waterproof Gel Filled loose tube direct burial is used for direct buried underground, it suit for long OFNR Single Mode Fiber Cable, OS2 Corning, Indoor/Outdoor, Riser

Corning Tight Buffer Fiber Cable features single-mode OS2 riser construction with 2-72 fibers. Indoor/outdoor design with aramid yarn and PVC jacket protection.

Fiber Optic Cable Jacket Guide: OFNP vs OFNR, LSZH, PVC, PE,

Compare fiber optic cable jacket materials and fire ratings: OFNP vs OFNR, LSZH, PVC, PE, TPU. Selection guide for data center, FTTH, outdoor, and industrial use. Request samples.

TLC Indoor/Outdoor Fiber Optic Cable, 24 Fiber, Singlemode

Overview The TLC Indoor/Outdoor Central Tube Cable is designed for versatile deployment in both internal and external environments. This 24-fiber, singlemode 9/125um cable utilizes a gel-free, water

Fiber Optic Cable Types Explained

OS1 single mode fiber optic cables are made with a single mode fiber core, which means that they have a very small core diameter of 9 microns. This allows the

Fiber Indoor & Outdoor Cables

Learn more about high-performance indoor/outdoor fiber cables by CommScope. Enhance connectivity with precision.

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

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

OS2 Single Mode Fibre Optic Patch Leads, SMF Duplex

FS offers single mode duplex fibre patch leads & cables for 1G/10G/40G/100G/400G Ethernet fibre connections that can transport data up to 10km at 1310nm and

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.

Lightera Optical Fiber & Connectivity Solutions

Lightera isn't just about connectivity, it's about empowering industries, advancing technology, and improving lives with the power of optical technology.

Lynn Electronics 0FT 12 FIBER PLENUM IN SINGLEM 0FT 12-Fiber Cable ...

The Lynn Electronics 12-Fiber Plenum Indoor Singlemode Fiber Optic Cable is a high-performance OS2 singlemode fiber optic cable designed for backbone, riser, and horizontal network installations in

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.

Fiber Optic Cable

Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored, burial, and ruggedized designs are suited to a

Multimode dual-core optical fiber patch cord ST-ST indoor network ...

Multimode dual-core optical fiber patch cord ST-ST indoor network connection cable
No reviews yet \$0.10-0.50 Minimum order quantity: 1,000 meters

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

Contact Us

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