Lc Single-mode Dual-core Fiber Optic Cable



Overview

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.

Key Takeaways

LC single-mode dual-core fiber optic cables are high-performance OS2 9/125 duplex cables designed for long-distance, high-speed data transmission with LC connectors. OverviewLC single-mode duplex fiber optic cables feature two cores (dual-core), allowing simultaneous bidirectional data transmission. They are typically OS2 single-mode fibers with a 9-micron core and 125-micron cladding, optimized for long-distance communication with minimal signal loss.

The cables are commonly used in 1G, 10G, 40G, 100G, and 400G Ethernet networks, supporting distances up to 10 km at 1310 nm and 40 km at 1550 nm.

Connector Type

These cables use LC (Lucent Connector) connectors, which are 1. 25 mm ferrule small form factor connectors.

L

C connectors are compact, allowing high-density port deployment in data centers and telecom racks. They provide low insertion loss, minimal signal interference, and reliable long-distance transmission.

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Duplex L

C cables come with two connectors per end, often color-coded yellow for single-mode fibers, and may include zip-cord reinforced PVC jackets for durability.

Cable Construction

Fiber Type: OS2 single-mode (9/125 µm)Jacket: OFNR (riser-rated) PVC, yellowOuter Diameter: Typically 2. 0 mmPerformance: Maintains light pulse fidelity over long distances, high bandwidth, low attenuationTesting: Fully inspected and tested according to ANSI/TIA/EIA standards ApplicationsLC single-mode duplex cables are ideal for: Telecommunications networksData centers and server farmsHigh-speed Ethernet connections (1G–400G)Long-distance optical links where signal integrity is criticalAdvantagesHigh bandwidth and low attenuation for long-distance transmissionCompact LC connectors allow high port densityDurable construction with PVC jacket and reinforced designLifetime warranty from reputable manufacturers ensures reliability These cables are widely available from suppliers such as FS, FiberCablesDirect, Mouser, and QSFPTEK, offering various lengths and connector configurations to suit different network setups.

Article Content

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.

Single Mode vs. Multimode Fiber: Core Differences and Selection Guide

How do you choose between single mode and multimode fiber? Compare their differences in core size, light source, bandwidth, transmission distance, and cost to identify the right application.

9/125, Single Mode Fiber Optic Cable, Dual LC / Dual

L-com''s 9/125 Duplex Clipped Single Mode fiber optic cables are constructed of the highest quality components and are covered by a one-year warranty. These fiber

LC-APC/UPC Single-Mode Single-Fiber Dual-Core 2.0-3.0mm Soft

Fiber Type Single-Mode Fiber optic cable Model Number LC-APC/UPC-DX-2.0/3.0MM Place of Origin Guangdong, China Application

100M/328FT Outdoor Armored LC to LC Fiber Optic Cable, 4 Core

About This 1 dustrial-Grade Durability: Engineered with a rugged 5.0mm industrial TPU jacket and dual-layer armor (steel tube + stainless mesh), this LC to LC fiber optic cable resists water, UV,

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Fiber Optic Cables | Fiber Patch Cables | Patch Cords, Duplex

Fiber Patch Cables, Multimode & Singlemode Duplex Fiber Optic Cables, Secure Order Fiber Patch Cords, Preferred Mil. Edu. Gov. Pricing, Same Day Shipping From CA USA, Verified Reviews

16-port thickened optical fiber terminal box□single ...

□ Until i found this "lianjitong" thickened 16-port rack-mounted optical fiber terminal box - fresh on the market in november 2023, fully equipped with 16 cores, fully compatible with sc/fc/st/lc,

StarTech 10m (32.8ft) LC to LC (UPC) OS2 Single Mode Duplex Fiber Optic ...

OS2 LC to LC Single Mode Duplex Fiber Optic Patch cable facilitates connectivity across 100G networks. It supports Coarse Wavelength Division Multiplexing (CWDM) across an extended

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various fiber wavelengths and standard core sizes used

3-Meter 9u/125u Fiber Optic Patch Cable Singlemode Duplex LC to

Hybrid Fiber Systems 3-Meter 9u/125u Fiber Optic Patch Cable Singlemode Duplex LC to SC - Yellow SMD9-LC-SC-003 Performance series LC to SC 9/125 Duplex (Dual) Singlemode fiber optic cables

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.

nauru-dual-core-multimode-optical-cable

All Companies and suppliers for nauru-dual-core-multimode-optical-cable Find wholesalers and contact them directly Leading B2B martketplace Find companies now!

G652.D fiber optic cable with LC/UPC to LC/UPC single

G652.D Duplex Single-Mode (SM) fiber optic cable. It has two LC / UPC connectors at both ends of the cable. 100% verified cable, top quality and LSZH (Low Smoke

Single Mode vs. Multimode Fiber Optic Cables

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There are two main types of fiber optic cables: single mode and multimode. Although they can do the same job in some instances, the different construction methods make each of them better

Best Pre-Terminated Fiber Optic Cables for Fast FTTH Installations

Pre-terminated fiber optic cables offer quick, predictable deployments with reduced field splicing. This guide targets installers, network engineers, and IT managers seeking reliable,

LC to LC Fiber Optic Cables Duplex Singlemde

OS2 LC LC Indoor/Outdoor Fiber Patch Cables | Duplex Single-Mode Fiber Jumper with Corning 9/125um core/cladding. A rugged, tightly buffered, black,

Duplex Singlemode 9/125 Fiber Patch Cable (CS/LC),

This duplex singlemode 9/125 OS2 adapter is an ideal choice for converting LC cabling to CS cabling in 400G Ethernet applications up to two kilometers (at 1310

Duplex LC Connector: Design, Fiber Types, and Best

This article explains what Duplex LC connectors are, how they work, the difference between single-mode and multimode use, how to choose and

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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

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