

Dual-core single-mode fiber optic cable lc



Article Overview

A single-mode dual-core LC fiber optic cable is a duplex 9/125 μm fiber designed for high-speed, long-distance data transmission with LC connectors on both ends.

Overview

A single-mode dual-core fiber optic cable consists of two separate fiber cores (dual-core or duplex) that allow simultaneous bidirectional data transmission, effectively doubling the communication capacity compared to a single-core fiber. The single-mode (SM) designation means the fiber has a small 9-micron core, allowing light to travel in a single, straight path, which minimizes signal loss and supports long-distance transmission. The cladding diameter is typically 125 microns, following industry standards.

LC Connectors

The LC (Lucent Connector) is a small form factor connector with a 1.25mm ceramic ferrule, commonly used in high-density networking environments. LC connectors are available in duplex configurations, meaning two fibers are paired in a single clip for easier installation and management. They are widely used in data centers, telecom networks, and enterprise LANs.

Performance and Applications

- **Transmission Distance:** Single-mode fibers can transmit data up to 10 km at 1310 nm and 30-40 km at 1550 nm, making them ideal for long-haul and high-speed net...

Article Content

LC to LC Fiber Optic Cables Duplex Singlemode Multimode OM3 OM4 Fiber ...

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

8ware Fibre Upc Lc-lc Single Mode Os2 Dual-core Optic Duplex

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Single-mode optical fiber

In fiber optics, a quadruply clad fiber is a single-mode optical fiber that has four claddings. Each cladding has a refractive index

LC-LC Singlemode | Singlemode Fibre Cables: OS2/OS1 | Fibre Optic Cable ...

SKU: 040.060.0139 12 Core OS2 Loose Tube Drycore x 250m, 2mm oversleeving, 400mm stagger with LC-LC Terminations, pulling

LC Fiber Optic Connectors

APPLICATIONS LC F LC Fiber Optic Connectors provide a rugged solution for high-density telecommunication rooms, LANs, public

FLYPROFiber

High-Speed Performance--- The OS2 LC to LC Industrial TPU outdoor fiber optic cable is specifically designed for high-speed data

LC-FC OS2 Singlemode Duplex Fiber Optic Patch Cable

Optcore offers an extensive line of LC to FC 9/125µm OS2 single-mode duplex fiber optic patch cables with many choices of different

LC/UPC to LC/UPC Duplex Fiber Optic Patch Cable Singlemode ...

This high-quality singlemode fiber optic patch cable is specifically designed using SMF-28e fiber for ethernet applications. Each

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

LC-LC OS2 Singlemode Duplex Fiber Patch Cable

As an essential component commonly used in fiber-optic networks, high-quality fiber patch cables are critical for any high

opticalCON DUO

Assembled 2 fibers rugged and lightweight mobile field cable, excellent cable retention due to aramid yarn, black PUR outer jacket,

Amazon : Single Mode Fiber

Discover high-quality single mode fiber optic cables for data centers, telecom, and enterprise networks. Find LC, SC, and ST

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