

Lc Single-mode Dual-core Fiber Optic



Article Overview

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.

Overview

LC 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. LC 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. Duplex LC 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, yellow...

Article Content

Single vs Dual Fiber Media Converters (2025): A/B Pairing and WDM

Understand single-fiber (BiDi) vs dual-fiber, A/B wavelength pairing (1310/1550), copper-to-fiber use cases, LED meanings, and

LC/UPC Single Mode Dual Core Fiber Optic Cable

As one of the leading lc/upc single mode dual core fiber optic cable manufacturers and suppliers in China, we warmly welcome you

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

LC Fiber Connector Specifications

Single Mode Simplex LC/UPC Connector (Blue color) Multimode Duplex LC/PC Connector (Beige color)

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,

The Difference Between Single/Dual Fiber and

Whether you're designing a short-range data center network or a long-distance metro

Cisco High-Density Fiber Patch Panel, Simplex, MPO,

This high-density solution improves access to small form factor connectors and creates

LC Fiber Optics: Complete Guide 2026 to Patch Cables,

This guide provides a fully updated and industry-ready overview of LC fiber optics, fiber optic cable multimode versus singlemode duplex vs simplex

Workstations, fiber switches and servers, fiber modems, and similar hardware require duplex cable. Duplex fiber is available in

Single Mode vs. Multimode Fiber Optic Cables

There are two main types of fiber optic cables: single mode and multimode. Although they can do the same job in

Optical fiber connector

Optical fiber connector LC (top) and ST (bottom) optical fiber connectors, both with protective caps in place An optical fiber connector

What is the difference between lc and duplex lc?

The Duplex LC connector offers the advantage of space-saving and simplified cable management, making

LC Fiber Optics: A Comprehensive Guide

LC fiber connector products are robust optical solutions designed for telecom applications, encompassing LC fiber

OS2 LC LC Duplex Fiber Patch Cable 9/125 Singlemode

Singlemode - 9/125 Singlemode OS2 Fiber Cable is used for high speed fiber optic networking, excellent

Duplex LC Connector: Design, Fiber Types, and Best

This article explains what Duplex LC connectors are, how they work, the difference

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,

Understanding the Duplex LC Connector: The Go-To Fiber Network

Optical fibers are classified in terms of single mode and multimode, depending on their core size and the principle of

Understanding Single Mode LC Connector: A Comprehensive Guide

This guide will explain their functions, discuss the role of single-mode LC connectors in modern fiber optic systems, and

Amazon : Lc To Lc Fiber Patch Cable

FLYPROFiber- 6 Pack 2M LC to LC Single Mode Fiber Patch Cable OS2, SM Fiber Optic Cable, SMF Singlemode Fiber Jumper

Simplex vs Duplex Fiber Cable: Key Differences and How to Choose

Learn the differences between simplex fiber cable and duplex fiber cable, including transmission methods, applications,

Single Mode vs Multimode Fiber, What is The Difference?

Learn the key differences between single mode vs multimode fiber cables and choose the right one for your fiber optic

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

Find 8ware Fibre Upc Lc-lc Single Mode Os2 Dual-core Optic Duplex Armored Low Smoke Zero Halogen (lszh) Cable White 1m -

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

Ever wonder how data zooms across cities and continents at lightning speed? The secret lies in fiber optic technology,

LC Fiber Optic Connectors

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

Comparing Single-Core and Dual-Core Optical Fibers ...

While single-core fibers offer efficiency and simplicity for long-distance transmission, dual-core fibers excel in high

Fiber Optic Patch Cord, Single Mode & Multimode

Fiber Optic Patch Cord In this category, you will find various duplex and simplex LC/SC/FC/ST/Uniboot

OS2 Single Mode Fiber Optic Cables, SMF Duplex

Get OS2 single mode duplex fiber patch cables for 1G/10G/40G/100G/400G Ethernet fiber connections to

What Is A Single-Fiber BiDi Transceiver?--ETU-LINK

When planning a fiber optic network,one key decision is choosing between single-fiber (BiDi) and dual-fiber optical transceivers. This

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,

The Difference Between Single/Dual Fiber and

As fiber optic networks continue to evolve, selecting the right optical transceiver becomes

FLYPROFiber

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

LCFiberOpticPatchCordCables LC F

Description Fiber Optic Patch Cable also known as fiber patch cord cable,optical cable or fiber optic jumper. As an important

Understanding Single Mode LC Connector: A Comprehensive Guide to Fiber ...

Discover the essentials of Single Mode LC Connectors in our comprehensive guide. Explore our range of fiber optic

A Breakdown of Fiber Optic Patch Connectors and Their Applications

A comprehensive guide to fiber optic connectors including FC, SC, LC, ST, and MPO/MTP types.

Singlemode Duplex LC Connectors Fiber Optic Connectors

Mouser offers inventory, pricing, & datasheets for Singlemode Duplex LC Connectors Fiber Optic Connectors.

150 meter LC/LC Singlemode Duplex Fiber Optic Cable, 9/125

Product Description This 150 meter (~492 feet) fiber optic cable is terminated with LC (Lucent Connector) connectors on both ends. It

Understanding the LC Duplex Connector: A

The modernization of telecommunications would not have been possible without the use of

LC Fiber Patch Cables | Singlemode & Multimode with LC Fiber

OM3 LC LC Armored Duplex Fiber Patch Cables, 10Gb Multimode 50/125 Corning optical fiber cord. Indoor rated and terminated

Contact Us

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