

Lc single-mode fiber optic cable



Overview

9/125, Singlemode Fiber Cable, LC / LC, 1.0m L-com's 9/125 Simplex Singlemode fiber optic cables are constructed of the highest quality components LC Fiber.

Key Takeaways

LC single-mode fiber optic cables are high-performance cables designed for long-distance, high-bandwidth data transmission using compact LC connectors. Overview

LC single-mode fiber optic cables use Lucent Connectors (LC), which are small form-factor connectors with a 1.25 mm ferrule, ideal for high-density networking environments. These cables are specifically designed for single-mode fiber, which has a core diameter of approximately 9 microns, allowing light to propagate in a single mode. This design minimizes signal loss and interference, making them suitable for long-distance telecommunications, data centers, and high-speed networks.

Key Features

- **Compact Design:** The LC connector's small size allows for high port density, which is useful in racks and patch panels with limited space.
- **Low Signal Loss:** Single-mode fibers provide reduced transmission loss, enabling reliable long-distance communication.
- **Ease of Use:** LC connectors feature a push-and-click snap-in mechanism, allowing quick and secure connections.



- **Durability:** Designed to maintain stable performance under demanding conditions, LC connectors are robust and reliable .

- **Duplex Capability:** Many LC single-mode cables are duplex, supporting simultaneous bidirectional data transmission .

Applications

LC single-mode fiber optic cables are widely used in:

- Telecommunications networks for long-distance signal transmission.
- Data centers to connect switches, servers, and storage devices.
- High-speed networks such as 10G, 40G, and 100G Ethernet environments .
- FTTx deployments (Fiber to the Home/Building) for reliable broadband delivery.

Purchasing Options

These cables are available in various lengths and configurations, including LC to LC duplex patch cables, and can be purchased from online retailers like Amazon, eBay, and specialized fiber optic suppliers . They are offered in both indoor and outdoor-rated versions, with plenum or riser-rated jackets for building installations .

Summary

LC single-mode fiber optic cables combine compact LC connectors with single-mode fiber to provide high-bandwidth, long-distance, and low-loss data transmission. Their durability, ease of use, and high port density make them a preferred choice for modern telecommunications, data centers, and high-speed networking applications .

Article Content

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LC Fiber Patch Cables | Singlemode & Multimode with

OM3 LC LC Indoor/Outdoor Duplex Fiber Patch Cable, 10Gb Multimode

Amazon : Single Mode Fiber Lc To Lc

BEYONDTECH 1m (3.28ft) LC to LC Fiber Patch Cable - UPC Single-Mode Simplex Fiber Optic Cable - 9/125µm core, Compatible

10 m LC/LC Duplex 9/125 Single Mode Fiber Optic Cable

With LC to LC termination, this high-quality fiber optic

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

Optical fiber connector

Optical fiber connectors are categorized into single-mode and multimode types based on their distinct

Fiber Optic Cables

Shop fiber optic cables at CableLeader. Find LC LC and LC SC single mode 9/125 fiber cables for fast Ethernet and long-range

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1m Fiber Optic Cable

1m Fiber Optic Cable - Single-Mode Duplex 9/125 LSZH Fiber Jumper Cord - LC/LC Connect fiber network devices for high-speed

Amazon : Lc To Lc Fiber Patch Cable

Find reliable LC to LC duplex fiber cables for your networking needs. Available in various lengths and fiber types for optimal

Fiber Optic Patch Cables, Fiber Patch Cords

Get low-loss fiber patch cables & cords with various connector options that support fiber optic cabling up to

BEYONDTECH 2m (6.56ft) LC to LC Fiber Patch Cable

About this item Superior Performance: Beyondtech UPC Singlemode LC to LC Fiber Cable supports ATM,

Fiber Optic Cables

We offer specialized fiber optic cable assemblies in single mode or multimode and simplex or duplex optic cables featuring ST, SC,

1m (3.28ft) LC to ST Fiber Patch Cable - UPC Single

About this item Superior Performance: Beyondtech UPC Singlemode LC to ST Fiber Cable supports ATM,

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FS - HPC, Data Center, Enterprise, Telecom

BEYONDTECH 3m (9.84ft) LC to SC Fiber Patch Cable - UPC Single-Mode ...

About this item Superior Performance: Beyondtech UPC Singlemode LC to SC Fiber Cable supports ATM, Fast Ethernet, Fiber

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1m Fiber Optic Cable

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SpeedaLite™ Fiber Optic Cable Singlemode 9/125 DX LC-LC

Answer Yes. This SpeedaLite Fiber Cable works with 10gb, 40gb and 100gb LC Singlemode transceivers. It can be used for all

Fiber Optic Cable Types Explained

Like we mentioned above, indoor fiber optic cable comes in several different types, including single-mode and multimode cable. It

Amazon : Single Mode Fiber

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

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

The Single Mode LC Connector is a high-efficiency and compact fiber optic converter crafted specifically for single

Fiber Optic Patch Cables, Fiber Patch Cords

Get low-loss fiber patch cables & cords with various connector options that support fiber optic cabling up to 400G. 100% tested.

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10 m LC/LC Duplex 9/125 Single Mode Fiber Optic Cable

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Understanding Single Mode LC Connector: A

This guide will explain their functions, discuss the role of single-mode LC connectors in

Amazon : Lc Single Mode Fiber Patch Cable

FLYPROFiber- LC to LC Single Mode Fiber Patch Cable OS2 10M/33ft 6 Pack | Duplex, 9/125um SMF, SM Singlemode Fiber

Single-Mode LC LC Optical Fiber Cables for sale | eBay

Get the best deals on Single-Mode LC LC Optical Fiber Cables and find everything you'll need to improve your home office setup

Single Mode Fiber Cables, Single-mode Duplex Cables, OS2 Patch

OS2 LC to ST 9/125 Single-mode Duplex Fiber Optic Patch Cables, manufactured with the highest quality

Duplex Singlemode 9/125 Fiber Optic Cable LC-LC, 1M

System Requirements Any fiber optic hardware or NIC card requiring singlemode

Monoprice Single-Mode Fiber Optic Cable

These single-mode patch cables are perfect for data

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

