

Lc-sc Single-mode dual-core fiber



Article Overview

LC-SC single-mode dual-core fiber cables are duplex fiber optic patch cords designed for high-speed, long-distance data transmission with 9/125 μm core/cladding dimensions.

Overview

An LC-SC single-mode duplex fiber cable features LC connectors (1.25 mm ferrule) on one end and SC connectors (2.5 mm ferrule) on the other, joined in a duplex configuration for simultaneous bidirectional communication. The fiber itself is single-mode (OS1/OS2) with a 9 μm core and 125 μm cladding, optimized for long-distance, high-bandwidth applications. These cables are typically yellow-jacketed, zip-cord reinforced, and can be riser-rated (OFNR) for indoor installations.

Key Specifications

- Core/Cladding: 9/125 μm
- Connector Types: LC duplex to SC duplex
- Cable Jacket: PVC or LSZH, 2 mm diameter typical
- Attenuation: ~ 0.25 dB/km at 1550 nm, ~ 0.35 dB/km at 1310 nm
- Operating Temperature: -20°C to 70°C
- Bending Radius: Minimum 5 cm during installation, 3 cm during use
- Distance Support: 5–10 km at 1310 nm, 30–40 km at 1550 nm
- Standards Compliance: ITU-T G.652A/B, IEC 60793-2-50 Type B1.1, RoHS

Article Content

Single Mode Dual Core SC-LC Fiber Optic Patch Cord

Featuring excellent reliability, superior adaptability, and improved security, fiber patch cord has ranked the

Fiber Patch Cords for Data Centers

CommScope engineers and manufactures a complete line of high quality fiber patch cords for data centers

LC-SC OS2 Singlemode Simplex Fiber Optic Patch Cable

Those LC to SC 9/125µm single mode OS2 fiber patch cables support long transmission distances with

Fibre Optic Couplers | Fibre Coupler Adaptors | 4Cabling

Single-mode couplers are typically chosen for networking equipment in different offices and are used to network equipment within the

Single Mode Fiber Optic Cable, SMF OS2 Fiber, Duplex

QSFPTEK provides OS2 single-mode fiber optic cable with duplex LC-LC, LC-SC, and SC-SC connector types to reach a distance of

What is the difference between lc and duplex lc?

LC vs. Duplex LC: LC is a single connector, while duplex LC is a dual connector configuration. The difference between LC and

Types of Fiber Connectors | LC, ST, SC | ShowMeCables

Find out the difference among fiber optic connector types LC, ST, SC including which is push-pull, which uses a

Fiber Adapters

CommScope fiber adapters and connectors—including LC to SC adapters—are designed for excellent optical and mechanical

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

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

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

The Difference Between Single/Dual Fiber and

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

Duplex LC Connector: Design, Fiber Types, and Best

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

OS1 / OS2 Single Mode Fibre Optic Cable

With a small diametral core, in a single mode fibre optic cable only one ray or mode of light is able to propagate at a time. All the

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

The secret lies in fiber optic technology, and understanding the basics—1-core, 2-core, Single Mode (SM), and Multi

1m (3.3ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber Optic

COMPATIBILITY: Single Mode Fiber Patch Cord supports 100G networks; Backward compatible with OS1; High micro-bend

Differences Between ST, SC, FC, and LC Fiber

Learn the differences between ST, SC, FC, and LC fiber connectors. Explore connector

BEYONDTECH 1m (3.28ft) LC to SC Fiber Patch Cable

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

LC-SC OS2 Singlemode Duplex Fiber Patch Cable

LC-SC 9/125 OS2 Singlemode PVC (OFNR) Duplex Fiber Patch Cable Manufacturer, Affordable Factory

fiber optic cable multimode versus singlemode duplex vs simplex

For example, telcos use it for connections between switching offices. Singlemode cable features a 9-micron glass core. Duplex

1m (3.3ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber Optic

1m (3.3ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber Optic Cable, 9/125μm, 100G, Bend Insensitive, Low Insertion Loss - LSZH

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

LC/SC/FC/ST UPC Fiber Optical Patch Cable Single

Versatile Application: Ideal for SFP modules, this single mode fiber cable supports various data

LC-SC OS2 Singlemode Duplex Fiber Patch Cable

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

Understanding Single Mode LC Connector: A

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

OS2 LC SC Duplex Fiber Patch Cables 9/125 Single

OS2 LC to SC 9/125 Single-mode Duplex Fiber Optic Patch Cable, manufactured with the

Simplex vs Duplex Fiber Optic Cable – Key Differences & Uses

Discover the differences between simplex and duplex fiber optic cables, their pros, cons, and best applications in

Fiber Patch Cords and Cable Assemblies | Fiber Optic | Network ...

A color-indexing identification solution that delivers instant visual clarity for hyper-dense fiber connectivity. Built on the TIA-598

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,

Contact Us

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