

Fiber optic cable single-mode lc-sc



AI Overview

Single-mode LC to SC fiber optic cables are high-performance 9/125µm patch cords designed for long-distance, low-loss data transmission in LAN, WAN, and data center networks.

Key Specifications

- Fiber Type:** Single-mode (SMF), 9µm core / 125µm cladding, OS1 or OS2 standard.
- Connectors:** LC (1.25mm) to SC (2.5mm) duplex or simplex, typically with UPC (Ultra Physical Contact) polish for low back reflection.
- Jacket:** Yellow PVC or LSZH (Low Smoke Zero Halogen), often OFNR riser-rated for indoor vertical runs.
- Insertion Loss:** Typically ≤ 0.3 dB per connector; return loss ≥ 55 dB.
- Bend Radius:** Minimum 5–10 mm loaded, 3–10 mm unloaded, depending on manufacturer.
- Operating Temperature:** -20°C to $+70^{\circ}\text{C}$ (-4°F to 158°F).
- Length Options:** Commonly 0.5m to 100m, with custom lengths available.

Applications

- High-speed networking: Gigabit Ethernet, 10GbE, Fiber Channel, ATM.
- Telecom and data centers: LAN, WAN, SAN, GPON, FTTX deployments.
- Long-distance transmission: Single-mode fibers maintain signal integrity over kilometers with low attenuation (0.25–0.35 dB/km at 1310–1550 nm).

Features and Benefits

- High precision connectors: Ceramic ferrules ensure accurate alignment and minimal signal loss.
- Durable and flexible: Suitable for tight installations with bend-insensitive fiber options.
- Plug-and-play: Pre-terminated cables simplify installation and reduce maintenance costs.
- Compliance: Meets ITU-T G.652A/B, IEC 60793-2-50, ANSI/TIA/EIA standards, and RoHS environmental regulations.

Selection Tips

- OS1 vs OS2:** OS1 is optimized for indoor, short-distance applications; OS2 is suitable for long-distance, outdoor, or high-bandwidth networks.
- Duplex vs Simplex:** Duplex cables support bidirectional communication; simplex is single-direction.
- Polish Type:** UPC is standard for low back reflection; APC (angled) is preferred for high-precision telecom links.
- Jacket Material:** LSZH is safer for enclosed spaces; PVC is standard for general indoor use.

Single-mode LC to SC fiber optic cables are ideal for reliable, high-speed...

Article Content

LC/UPC to SC/UPC 9/125 Singlemode Simplex Fiber

With LC to SC connectors, the FCA-S1SR-LCSC-10M fiber patch cable from L-com is ready for deployment in any single mode OS1 9/125 network. This single

Infinite Cables US OS2 Singlemode Simplex LC/SC 9 Micron

These 9 micron (OS2) fiber optic cable is made with Corning ClearCurve LBL glass fiber, which exceeds ITU-T G.657.A2/B2 and remains compatible and fully compliant with ITU-T G.652.D. It has 3mm

LC to SC Fiber Patch Cable

High-performance single-mode fiber optic patch cable connecting modern and versatile equipment with LC/UPC connectors on one end and SC/UPC

Used StarTech 30m (98.4ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber ...

UBB Store StarTech 30m (98.4ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber Optic Cable For Sale When you click on links to various merchants on this site and make a purchase, this can result in this

Indoor Outdoor Fiber Optic Cables

Indoor/Outdoor Duplex Fiber Patch Cables, Singlemode & Multimode, OM1 OM2 OM3 OM4 OS2, 50/125 9/125 62.5/125, Yellow/Orange/Aqua Jacketed Fiber

Fiber Optic Pigtails | SC, LC, ST Single Mode & Multimode

Find high-quality fiber optic pigtails for reliable network termination. We offer a full range of single mode and multimode pigtails with SC, LC, ST, and FC connectors.

Single Mode Fiber Cables, Single-mode Duplex Cables,

OS2 LC to SC 9/125 Single-mode Duplex Fiber Optic Patch Cable, manufactured with the highest quality Corning optical fiber glass and terminated with 1.25mm

Fiber Connector Types

However, the widely used types are about a dozen of fiber optic connectors, which can be divided into single-fiber, duplex fiber connectors (such

LC-SC Singlemode, Duplex, 9/125, Fiber Optic Cables

[Home > Single Mode Patch Cables > Single Mode, Duplex, 9/125 (OS2) > LC-SC Singlemode, Duplex, 9/125, Fiber Optic Cables]

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

OS2 FIBER CABLE: Single Mode OS2 Fiber Cable is immune to EMI and optimized for 100Gbps networks; Coarse Wavelength Division Multiplexing (CWDM) enables extended 1260-1625nm

Fiber Optic Connector Types Guide | LC, SC, MPO, ST

Fiber optic connector types explained: LC, SC, ST, MPO, MTP. Learn key differences for your network setup.

9/125, Singlemode Fiber Cable, SC / LC, 1.0m

L-com's 9/125 Simplex Singlemode fiber optic cables are constructed of the highest quality components and are covered by a one-year warranty. These fiber optic patch cables feature OFNR (Riser rated)

Axiom InfiniBand Fiber Optic Cable LC/SC 8m OS2 - TRINCOS

The Axiom LC/SC InfiniBand fiber optic cable meets these needs with its 8-meter length and optimal performance features. This cable is designed for long-distance connections that maintain signal

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

This LC to SC single mode fiber patch cable is ideal for GPON, FTTX, and passive network applications. Flexible and Durable: Operates from -4° to 158°F (-20°C to 70°C) with a minimum bending radius of

Single-Mode Fiber Optic Cable 50m LC-SC Duplex OFNR - TRINCOS

High-speed 50m Single-Mode Fiber Optic Cable with LC-SC connectors. Ideal for data centers and commercial use. Shop now.

LC Fiber Patch Cables | Singlemode & Multimode with

OM3 LC SC Indoor/Outdoor Duplex Fiber Optic Patch Cable, 10Gb Multimode 50/125 corning optical fiber cord (10Gb up to 300 meters). Tightly buffered in a

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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 lower loss. They are manufactured with high-quality

Best Outdoor Armored Fiber Optic Cable Solutions for Durable ...

For reliable, weather-ready fiber connections in outdoor or harsh environments, armored outdoor fiber cables protect against moisture, rodents, and abrasion while maintaining solid

OS2 Fiber Optic Cables | LC/SC/FC/ST Simplex

Explore OS2 singlemode fiber optic cables with LC, SC, FC, and ST connectors for long-reach 1G–400G links. Simplex, duplex, and uniboot options in 2.0mm OFNR.

Fiber Optic Cable LC to SC 1m OS2 40G/100G – TRINCOS

OS2 LC to SC Single Mode Simplex Fiber Optic Patch cable facilitates connectivity across 40G/100G networks. It supports Coarse Wavelength Division Multiplexing (CWDM) across an extended

123eWireless: 50M Fiber Optic Drop Cable Assembly, 2-Fiber Singlemode ...

123eWireless: Fiber Optic Drop Cable Assembly, 2-Fiber Singlemode (SMF-28E), LC/UPC Duplex to Evolv® Pushlok™ SC/APC, SST-Drop™ Dielectric Cable, 50 m Length, Black Jacket

Fiber Optic Cables

CableLeader is your trusted source for high-quality LC-LC single-mode fiber optic cables and LC-SC single-mode fiber optic cables. Our extensive range of fiber optic cables is perfect for fast Ethernet,

Contact Us

For more information, pricing, or custom solutions, please contact us:

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