

Fiber Optic patch cord lc-st single-mode



Overview

LC to LC duplex single mode patch cables use UPC polish for low insertion loss and are designed for high-density environments.

Key Takeaways

A single-mode LC-ST fiber optic patch cord is designed for long-distance, high-performance optical connections, typically using 9/125 μm OS1 or OS2 fiber with low attenuation and reliable LC and ST connectors.

- **Fiber Type:** Single-mode 9/125 μm (OS1 or OS2), optimized for long-distance transmission with low signal loss .
- **Connectors:** LC connector on one end and ST connector on the other, often with ceramic ferrules for precise alignment and minimal insertion loss .
- **Distance Capability:** Supports long-distance links, typically up to 5 km at 1310 nm and up to 30 km at 1550 nm, depending on the fiber grade and network conditions .
- **Jacket and Durability:** Commonly features OFNR (riser-rated) or LSZH jackets for indoor use, with some models offering crush-resistant or plenum-rated options for enhanced protection .
- **Performance:** Low attenuation (e.g., 0.25 dB/km at 1550 nm, 0.35 dB/km at 1310 nm), supporting high-speed networks including 1G, 10G, and higher .

Applications

- **Network Infrastructure:** Ideal for connecting patch panels, switches, optical transceivers, and telco equipment in LAN, SAN, or GPON/FTTX networks .

- Indoor and Outdoor Use: Suitable for both indoor cabling and controlled outdoor environments, depending on jacket type and environmental ratings .

- High-Demand Data Transmission: Supports stable video, data, and voice transmission in data centers, educational institutions, and commercial networks .

Additional Features

- Durability: Many LC-ST single-mode patch cords include flexible boots, duplex clips, and reinforced jackets to prevent damage during installation and use .

- Standards Compliance: Typically meets ITU-T G.652A/B and IEC 60793-2-50 Type B1.1 standards, ensuring compatibility and reliable optical performance .

- Custom Options: Available in various lengths, connector combinations, and polish types (UPC, APC) to suit specific network requirements .

In summary, an LC-ST single-mode fiber optic patch cord is a reliable solution for long-distance, high-speed optical connections, offering low attenuation, durable construction, and compatibility with a wide range of network equipment. It is particularly suitable for data centers, telecom networks, and enterprise LAN setups where stable and efficient fiber connectivity is critical.

Article Content

OS2 Single Mode Fiber Optic Patch Cables

LC to LC duplex single mode patch cables use UPC polish for low insertion loss and are designed for high-density environments.

LC to ST Fiber Patch Cable, 1M (3.28ft) Single Mode Duplex

About this item PRODUCT DETAILS: LC to ST Singlemode Duplex, 1 M (3.28 ft), 9/125 um high rated fiber cladding. Optical fiber

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LC-ST OS2 Singlemode Duplex Fiber Patch Cable

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

LC UPC to ST UPC Fiber Optic Patch cord, LSZH Jacket

As the fiber optic connectors have the UPC (Ultra Physical Contact) surface polish finish, optical loss in the network connection will

Amazon : PacSatSales

PacSatSales Single mode Fiber optic cables perform out of the box, there's no additional cleaning required. They come in popular

LC/UPC to ST/UPC 9/125 Singlemode Simplex Fiber Patch Cable

With LC to ST connectors, the FCA-S1SR-LCST-10M fiber patch cable from L-com is ready for deployment in any single mode OS1

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