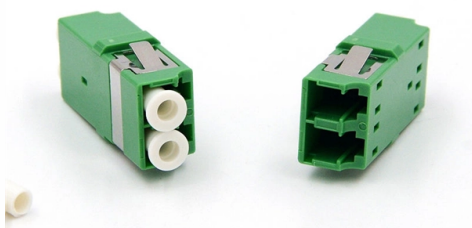


Fiber optic cable single-mode dual-core lc-sc



Overview

BEYONDTECH 1m (3.28ft) LC to SC Fiber Patch Cable This LC to SC single mode fiber patch cable is ideal for GPON, FTTX, and Single Mode Fiber Cables, Single.

Key Takeaways

A single-mode dual-core fiber optic cable with SC-LC connectors is a high-performance OS2 fiber cable designed for long-distance, high-speed data transmission, typically using a 9/125 μm core/cladding structure.

- Fiber Type: OS2 single-mode, 9 μm core / 125 μm cladding, optimized for long-distance transmission with low attenuation .
- Connector Types: One end terminated with LC (1.25 mm ceramic ferrule) and the other with SC (2.5 mm ceramic ferrule), supporting duplex communication .
- Cable Construction: Typically features a yellow PVC jacket, 2 mm diameter, zip-cord reinforced, and OFNR riser-rated for safe indoor deployment .
- Transmission Performance: Supports 10 Gbps speeds over 5–10 km at 1310 nm and 30–40 km at 1550 nm, making it suitable for 1G–400G Ethernet applications .
- Durability: Pre-terminated with high-quality Corning optical fiber, fully tested for attenuation and performance, ensuring reliable signal fidelity over long distances .

Applications

- Data Centers: Connecting switches, servers, and optical modules where LC ports are common, while SC ports may be used in distribution frames .

- **Telecom and Enterprise Networks:** Ideal for long-reach access networks, campus backbones, and structured cabling environments .

- **Mixed Infrastructure:** LC-SC configuration allows seamless integration between modern LC-based equipment and legacy SC-based systems .

Advantages

- **High Bandwidth and Low Loss:** Maintains signal integrity over long distances, minimizing attenuation and dispersion .

- **Flexibility:** Duplex design allows simultaneous bidirectional communication on a single cable assembly.

- **Ease of Installation:** Factory-terminated connectors reduce field termination errors and installation time .

- **Durable and Safe:** Riser-rated jacket and reinforced construction protect against mechanical stress and fire hazards in vertical shafts . This type of fiber optic cable is widely used in environments requiring reliable, high-speed, long-distance optical connectivity, especially where a transition between LC and SC connectors is needed.

Article Content

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

Single Mode Multimode Dual-Core Fiber Optic Connection Cable LC-LC ...

Special feature 1) Connector, type: FC SC LC ST MTRJ and MU E2000 ... MPO DIN D4 SMA 2) ferrule end: computer, UPCAPC 3)

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

OS2 FIBER CABLE: Single Mode OS2 Fiber Cable is immune to EMI and optimized for 100Gbps networks; Coarse Wavelength

SC to LC Fiber Cables

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

The Difference Between Single/Dual Fiber and Single/Multi-Mode Optical ...

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

LC Fiber Patch Cables | Singlemode & Multimode with LC Fiber

OM1 LC to SC 62.5/125 Multimode Duplex fiber optic cable. Terminated with durable LC and SC ceramic ferrule connectors, this high

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]

LC & SC Fiber Optic Patch Cables

LC and SC fiber optic patch cables in OS2 single-mode and OM3/OM4/OM5 multimode. UPC & APC polish options. LSZH rated,

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

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

