

Sc-lc fiber optic patch cord



Overview

SC to LC Fiber Cables OM2 LC to SC 50/125 Multimode Duplex fiber optic patch cable. Terminated with durable ceramic ferrule SC vs LC Patch Cords: Key Diffe.

Key Takeaways

An SC-LC fiber optic patch cord is a cable with an SC connector on one end and an LC connector on the other, used to link network devices with different port types. Overview

An SC-LC fiber optic patch cord is a short-length fiber optic cable designed to connect devices that have different types of fiber ports. The SC connector (Subscriber Connector) is square-shaped with a 2.5mm ferrule and uses a push-pull latching mechanism, making it robust and easy to insert or remove, commonly used in telecommunications, cable TV, and FTTH networks . The LC connector (Lucent Connector) is smaller, rectangular, with a 1.25mm ferrule, allowing higher port density and is widely used in enterprise switches, servers, and SFP transceivers .

Function and Applications

The SC-LC patch cord serves as a bridge between devices with different connector types, ensuring proper alignment of the fiber cores for minimal signal loss. It can carry either single-mode (SMF) or multimode (MMF) fiber, supporting high-speed data transmission over short or long distances . Typical applications include connecting switches, routers, optical transceivers, patch panels, and optical distribution frames in data centers, LANs, and FTTH deployments .

Key Features

- Duplex or simplex: Can be single-fiber (simplex) or dual-fiber (duplex) for bidirectional communication .
- Low insertion loss: Ensures minimal signal degradation during transmission.
- High return loss: Reduces back reflections, especially important in single-mode applications .
- Durable construction: Ferrules are usually made of zirconia ceramic for hardness and smooth insertion .
- Flexible jacket options: PVC, LSZH, or armored jackets depending on indoor, plenum, or outdoor use .

Summary

In essence, an SC-LC fiber optic patch cord is a versatile cable that allows seamless connectivity between devices with SC and LC ports, combining the robustness of SC connectors with the high-density advantages of LC connectors. It is essential for modern networking setups where equipment may have mixed connector types, ensuring reliable, high-speed optical communication .

Article Content

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1. What is SC LC Patch Cord? SC and LC patch cords are fiber optic cables that use in FTTH communication

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What is Difference Between SC and LC Patch Cord

SC and LC patch cords are fiber optic cables that use in FTTH communication networks. They are essential for

Fiber Optic Patch Cables

Fiber optic patch cords are used for short distance installations that connect to patch panels, switches and

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

