

RIVO MULTITRADE OPTICAL SYSTEMS

Fiber optic patch cord SCLC interface



Overview

Our 2.8mm mini-zip duplex fibre patch cables are available in singlemode (OS2) and multimode (OM1, OM2, OM3 & OM4).

Key Takeaways

SCLC refers to a hybrid fiber optic patch cord with an SC connector on one end and an LC connector on the other, combining the advantages of both connector types. Overview of SCLC Patch Cords

An SCLC fiber optic patch cord is a hybrid cable designed to connect devices with different connector interfaces. One end features an SC connector, which is square-shaped with a 2.5mm ferrule and a push-pull locking mechanism, widely used in telecom networks and Passive Optical Networks (PON) for its robustness and ease of installation. The other end has an LC connector, a smaller form factor with a 1.25mm ferrule and a latch mechanism, commonly used in high-density data center applications and SFP optical modules.

Key Features

- Connector Types: SC (square, 2.5mm ferrule) and LC (small form factor, 1.25mm ferrule)
- Fiber Mode: Can be single-mode (SM) for long-distance transmission or multimode (MM) for shorter distances
- Coupling Mechanism: SC uses push-pull with a locking tab; LC uses a latch mechanism for secure connection

- Applications: Ideal for connecting legacy SC ports to modern LC ports in switches, routers, optical distribution frames (ODFs), and transceivers

- Ferrule Material: Typically zirconia ceramic for durability and low insertion loss

Advantages

- Flexibility: Bridges devices with different connector types without requiring adapters

- Ease of Use: Tool-free installation with secure connections

- Compatibility: Supports gigabit to terabit speeds depending on fiber type and network design

- Space Efficiency: LC end allows high-density port deployment in racks and patch panels

Typical Use Cases

- Connecting SC-based PON equipment to LC-based SFP modules

- Upgrading networks where mixed connector types exist

- Data centers requiring high-density LC ports while maintaining compatibility with older SC infrastructure

In summary, an SCLC patch cord is a practical solution for networks that need to interface SC and LC ports, combining the robustness of SC connectors with the compact, high-density advantages of LC connectors, while supporting both single-mode and multimode fiber applications .

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