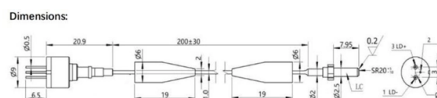


RIVO MULTITRADE OPTICAL SYSTEMS

Fiber optic patch cord interface type

SCLC



Overview

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST Learn about SC, LC, FC, and ST fiber optic patch cords, their uses in FTTH, telecom, and A Breakdown.

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 .

Article Content

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Explore common SFP fiber optic connector types, including LC, SC, and MPO/MTP. Learn their differences, use cases, and

Optical Fiber Termination Types Chart: SC, LC, FC, ST Comparison

Compare optical fiber termination types, including SC, LC, FC, and ST. View our chart and learn how to choose the

Patch cord Simplex & Duplex_cc 24 Jan 20

Features: Adopts high precision ceramic ferrule with good concentricity. Compact & strong crimping offers exceptional tensile

FIBER OPTIC PATCH CORD PATCH CORDS

Low inser on loss Angled Physical Contact (APC), ultra Physical Contact (UPC) straight cord or combined hybrid type cords with

PATCH CORDS

3. Requirements Operating & Storage Temperature -40°C ~ 85°C Optical Performance Measurement Insertion loss and return loss

SC-SC Fiber Optical Patch Cord and SC Pigtail -AOA Tech

Overview SC Fiber Optic Patch Cord stands for Subscriber Connector- a general purpose push/pull style connector developed by

Single Mode Single Core SC-LC Fiber Optic Patch Cord

The connectors allow fiber optic patch cord to be rapidly connected to an optical switch or other telecommunications/computer

Standard Fiber Patch Cables Datasheet

Standard Fiber Patch Cables Applications Fiber optic patch cords are key components for efficient, low-loss optical

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How to Choose the Right FTTH Patch Cord for Your Network Choosing the right fiber optic patch cord is critical to

SC LC Patch Cord | Fiber Patch Cord | MM (OM2), LSZH & PC Types

Digisol Channel SCS Patch Cord, MM (OM2) (50), Duplex LC-SC, PC Type, LSZH- DGF-PM2DLCSCP3L DIGISOL Fiber Optic

Fibre optic patch cord, Actassi, OM3, SC-LC, duplex, LSZH, 3 m

This duplex SC-LC fibre patch cord is at length 3 meters and with multimode OM3 optical performance. The cord is

SC to LC Fiber Optic Patch Cable

We supply LC SC single mode duplex fiber optic patch cables, these cables are with 9/125 single mode fiber, and connector types

Fiber-optic patch cord

A fiber-optic patch cord is a fiber-optic cable capped at each end with connectors that allow it to be rapidly and conveniently

Fiber Patch Cord Types: How to Choose the Correct One?

A Fiber patch cord, also named as a fiber patch cable or fiber jumper, is a fiber optic cable that is terminated with

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