

RIVO MULTITRADE OPTICAL SYSTEMS

Fiber optic cable SC-SC patch cord



Overview

This fiber jumper cable built-in a stainless steel tube inside to protect the inner core (fiber glass) from damage like pet chew.

Key Takeaways

An SC-SC fiber optic patch cord is a cable with SC connectors on both ends, used to connect networking devices for signal routing in singlemode or multimode fiber systems.

An SC-SC patch cord is a fiber optic jumper cable featuring SC (Subscriber Connector) connectors on both ends. SC connectors are square, push-pull style connectors with a keyed design for secure and easy insertion and removal. These patch cords are widely used in data centers, LANs, telecommunications, and GPON/EPON networks for connecting devices and routing optical signals efficiently .

Types

- Singlemode (OS1, OS2): Designed for long-distance transmission with low attenuation, typically color-coded yellow .
- Multimode (OM1, OM2, OM3, OM4): Suitable for high-speed, short-range applications, color-coded orange or aqua depending on the type .
- Simplex or Duplex: Simplex has a single fiber, while duplex supports two fibers for simultaneous send/receive channels .

Connector Variants

- SC/UPC (Ultra Physical Contact): Flat polish, general-purpose use.

- SC/APC (Angled Physical Contact): Angled polish, reduces back reflection, ideal for video and high-power systems .

Technical Specifications

- Cable diameters: 0.9mm, 2.0mm, 3.0mm options .
- Insertion loss: Typically $\leq 0.2-0.3$ dB per connector .
- Return loss: $\geq 45-75$ dB depending on connector type .
- Operating temperature: -40°C to 75°C ; storage temperature: -45°C to 85°C .
- Bend tolerance: Can handle bend angles up to 90° with minimal signal loss .
- Standards compliance: Telcordia GR-326-Core, TIA/EIA, IEC 61300 .

Applications

SC-SC patch cords are used for:

- Data centers and server farms for inter-rack or intra-rack connections.
- Telecom rooms and enterprise networks for connecting switches, routers, and transceivers.
- High-speed Ethernet (10G/40G/100G) and SFP+ transceivers .
- GPON, EPON, GBIC, and MADI systems for optical signal distribution .

Installation Considerations

- Use color coding to identify fiber type and avoid installation errors.
- Ensure proper connector cleaning to maintain low insertion loss.
- Choose singlemode or multimode based on distance and bandwidth requirements.
- Duplex cords are preferred for bidirectional communication, while simplex is sufficient for single-channel connections . SC-SC fiber optic patch cords provide a reliable, high-performance solution for connecting optical devices, supporting both short-range high-speed networks and long-distance singlemode applications.

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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

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