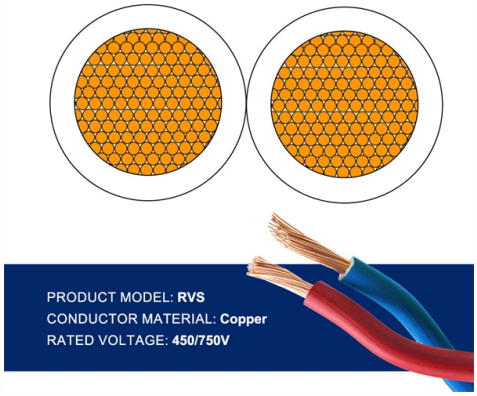
Fiber optic patch cord module SC port



Overview

SOPTO SC (Subscriber Connector) Square, snap-in connector. Widely used in Passive Optical Networks (PON) and simpler systems. Fiber Optic Patch Cord Guide.

Key Takeaways

A fiber optic patch cord module with an SC port is a cable assembly that connects SFP transceivers or network devices using the SC (Subscriber Connector) interface, ensuring precise optical alignment for reliable signal transmission.

Overview

A fiber optic patch cord (also called a fiber jumper) is a short, flexible optical cable with connectors on both ends, used to interconnect devices such as switches, servers, patch panels, and SFP modules.

The S

C connector is a square, snap-in type with a 2. 5 mm ferrule and a push-pull locking mechanism, commonly used in legacy enterprise networks, PON systems, and industrial applications.

S

C connectors are larger than LC connectors, making them less suitable for high-density racks but still widely used in single-fiber or BiDi applications.

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Key Features

Connector Type: SC (2. 5 mm ferrule, push-pull snap-in)Fiber Mode: Single-mode (OS2) for long-distance transmission or multimode (OM3/OM4) for short intra-data center links Jacket Types: PVC (standard indoor), LSZH (low smoke, zero halogen), OFNP (plenum-rated, fire-resistant) depending on installation environment Polish Types: UPC (Ultra Physical Contact) or APC (Angled Physical Contact) for low insertion loss and return lossLength: Typically 1–10 meters for patching within racks or between panels, but customizableApplicationsEnterprise Networks: Connecting SFP modules in switches to patch panels or serversPON/FTTH: SC connectors remain standard for single-fiber BiDi transceiversData Centers: Used in legacy systems or hybrid setups where SC ports are still presentTest & Measurement: Connecting optical power meters, OTDRs, or light sources to active linksSelection TipsMatch Fiber Type: Ensure single-mode or multimode matches the SFP module and network design.

Connector Compatibility: SC patch cords must match the SFP module port; hybrid cables (e.g., LC-SC) can bridge different connector types. Jacket Considerations: Choose LSZH or OFNP for fire safety in public or plenum spaces. Maintain Cleanliness: Dust or misalignment can increase insertion loss and degrade signal quality.

In summary, an SC fiber optic patch cord module is a reliable solution for connecting optical devices with SC ports, particularly in legacy or PON networks, and proper selection of fiber type, connector, and jacket ensures optimal performance and network reliability.

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