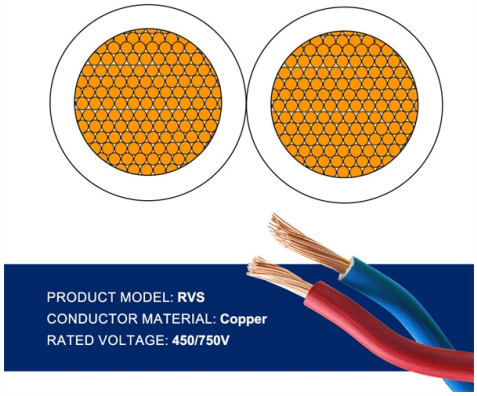
Fiber optic patch cord module SC port



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.

Article Content

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