

## What is the connector for an SC fiber optic patch cord



### Overview

Patch cords are classified by transmission medium, connector construction, and construction of the connector's inserted core cover. Single-mode fiber is generally yellow, with a blue connector, and a longer transmission distance. Multi-mode fiber is generally orange or grey, with a cream or black connector, and a shorter transmission distance.

### Key Takeaways

An SC fiber optic patch cord uses an SC (Subscriber Connector or Standard Connector) on each end, featuring a 2.5 mm ferrule with a square, snap-in design.

The SC connector is a widely used fiber optic connector with a 2.5 mm ceramic ferrule that ensures precise alignment of the fiber cores. It has a square, push-pull snap-in housing that locks securely into adapters or panels, making it easy to connect and disconnect while maintaining low insertion loss and minimal back reflection. SC connectors are available in both single-mode and multimode variants, suitable for long-distance or high-speed short-range transmission.

### Polish Types

SC connectors come in different polish types to optimize performance:



- UPC (Ultra Physical Contact): Flat polish, commonly used in general-purpose applications, providing low return loss.
  - APC (Angled Physical Contact): Angled polish (typically 8°), used in applications requiring very low reflection, such as video or high-power systems .
- Applications

SC patch cords are commonly used in:

- Telecommunications networks and FTTH (Fiber to the Home) deployments.
- Data centers and LAN networks, especially in legacy or industrial setups.
- Patch panels and optical distribution frames, where secure, repeatable connections are needed .

Key Features

- Duplex or simplex configurations: Duplex SC cords have two fibers side by side, often called "zip cords," while simplex cords have a single fiber.
- Color coding: Yellow jackets for single-mode, orange or aqua for multimode, aiding identification and installation .
- Ease of use: Snap-in design allows quick installation without tools, though APC variants require careful alignment due to the angled ferrule. In summary, an SC fiber optic patch cord is terminated with SC connectors on both ends, available in single-mode or multimode, and can feature UPC or APC polish depending on the application requirements, making it a versatile and reliable choice for optical network connections .

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These designations refer to both the type of connector (LC, SC, FC) and the polish style of the connector's end face (UPC, APC).

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Fiber optic connector is an essential part of fiber patch cords. Generally, many fiber optic connectors can be

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