ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Fiber optic connector scfcst



Overview

LC vs SC vs FC vs ST: A Complete Fiber Optic Connector GuideCompare LC, SC, FC & ST fiber-optic connectors — size, coupling, and ideal use cases — to help.

Key Takeaways

The SCFCST is a hybrid fiber optic connector combining features of SC and FC connectors, designed for reliable, low-loss optical connections in telecom and data networks.Overview

The SCFCST connector integrates the square push-pull design of SC connectors with the threaded, high-precision characteristics of FC connectors. This hybrid design allows it to provide both easy plug-and-play operation and secure, vibration-resistant connections, making it suitable for environments where both convenience and stability are required .

Key Features
• Ferrule Diameter: Typically 2.5mm, similar to standard SC and FC connectors, ensuring precise fiber alignment .

• Polishing Options: Available in UPC (Ultra Physical Contact) for general use and APC (Angled Physical Contact) for low reflection applications, with return loss ≥50 dB for UPC and ≥60 dB for APC .

• Configuration: Can be simplex (single fiber) or duplex (dual fiber), supporting both single-mode and multimode fibers .

• Insertion Loss: Typically ≤0.3 dB, ensuring minimal signal attenuation .

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• Durability: Designed for ≥1,000 mating cycles without performance degradation .
Applications

SCFCST connectors are widely used in:

• Telecom backbone networks for high-speed data transmission .

• FTTH (Fiber to the Home) deployments, where low return loss and reliable connections are critical .

• Data centers and enterprise networks, providing a balance between easy installation and secure connections .

• PON systems to minimize back reflections and maintain signal integrity .
Advantages
• Combines ease of SC push-pull operation with FC threaded stability.

• Supports high-density installations while maintaining low insertion loss.

• Compatible with standard SC and FC patch panels and transceivers.

• Reduces maintenance needs due to high durability and low signal degradation.
Summary

The SCFCST fiber optic connector is a versatile hybrid solution that leverages the strengths of both SC and FC connectors. It is ideal for applications requiring reliable, low-loss connections with mechanical stability and ease of use, making it suitable for modern telecom, data center, and FTTH networks .

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