

Fiber Optic Patch Cord FCSC



Overview

Description Fiber Optic Patch Cable also known as fiber patch cord cable, optical cable or fiber optic jumper.

Key Takeaways

FC-SC fiber optic patch cords are cables with FC connectors on one end and SC connectors on the other, used to link equipment in single-mode or multimode fiber networks.

An FC-SC fiber optic patch cord is a type of fiber optic jumper cable that connects devices with FC and SC ports. The FC connector is threaded, providing a secure, vibration-resistant connection, commonly used in telecommunications and industrial applications. The SC connector is a push-pull type with a 2.5mm ferrule, widely used in PON networks and converters for its low cost and ease of installation.

Fiber Types

- Single-mode (9/125 μm): Suitable for long-distance, high-performance communication systems. Available with PC, UPC, or APC polish for low back reflection and high signal quality.
- Multimode (50/125 μm or 62.5/125 μm): Used for short- to medium-distance networks, LANs, and data centers. Available in OM1, OM2, OM3, OM4, or OM5 for varying bandwidth and distance requirements.

Cable Variants

- Simplex: Single fiber for one-way transmission.
- Duplex: Two fibers for bidirectional communication.

- Jacket Options: PVC, LSZH, Riser, or Plenum rated for indoor or industrial environments. Cable diameters typically range from 0.9mm to 3mm .
- Connector Polishing
 - PC (Physical Contact): Standard low-loss connection.
 - UPC (Ultra Physical Contact): Enhanced surface finish, lower back reflection.
 - APC (Angled Physical Contact): Angled end face for superior return loss, ideal for high-performance applications .

Applications

- Connecting optical devices in telecom networks, data centers, and fiber-to-the-home (FTTH) setups.
- Linking switches, routers, and optical transceivers.
- Suitable for both industrial and premium-class communication devices due to the secure FC connector and versatile SC interface .

Key Considerations

- Length: Choose according to network layout; common lengths are 1m, 2m, 10m, etc.
- Mode Compatibility: Ensure single-mode or multimode matches the network.
- Connector Type: Match PC, UPC, or APC to minimize signal loss and reflection.
- Environmental Rating: Select jacket type based on indoor, plenum, or riser requirements . FC-SC patch cords are essential for reliable optical connections, offering low insertion loss, high repeatability, and compatibility with international standards, making them a versatile choice for both short- and long-distance fiber optic networks .

Article Content

Fiber Optic Patch Cables, FC-SC, Singlemode, Duplex, 9/125

[Home > Single Mode Patch Cables > Single Mode, Duplex, 9/125 (OS2) > FC-SC Singlemode, Duplex, 9/125, Fiber Optic Cables]

Fiber Optic Patch Cord

Fiber optic patch cord is available in both singlemode and multimode versions. Both singlemode and multimode versions fiber optic

LC Fiber Optic Patch Cord Cables LC F

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Fiber patch cables, also known as fiber optic patch cords or fiber jumpers, are fiber optic cables terminated with connectors on both

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