

Fiber Optic Patch Cord Simplex LC APC to SC APC

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Variants

3M 3.00mm 5M 3.00mm

Details

Patch Cord LC APC to SC APC 3.00mm Simplex 3M - High-Performance Fiber Optic Cable by DTech Trading

Introduction: The **Patch Cord LC APC to SC APC 3.00mm Simplex 3M** is a high-performance fiber optic cable designed for efficient and reliable data transmission in single-mode applications. This patch cord features an **LC APC (Angled Physical Contact)** connector on one end and an **SC APC (Angled Physical Contact)** connector on the other. Its **3-meter length** and **3.00mm outer jacket** make it ideal for a wide range of fiber optic applications, from telecommunications to data center connections. The **Simplex configuration** ensures single-fiber transmission, offering high signal integrity with minimal insertion loss and enhanced return loss, especially beneficial for long-distance high-speed networks.

Technical Parameters:

Connector Type: LC APC to SC APC (Angled Physical Contact)

Cable Type: Simplex

Cable Diameter: 3.00mm

Cable Length: 3 meters

Fiber Mode: Single-mode (SM)

Fiber Type: OS2 (Single-Mode Fiber)

Insertion Loss: 0.3 dB (typical)

Return Loss: >50 dB (typical for LC APC and SC APC connectors)

Operating Temperature: -40°C to +75°C

Storage Temperature: -40°C to +85°C

Compliance: RoHS Compliant, UL Listed

Attenuation: 0.4 dB/km (at 1310nm)

Key Features:

LC APC to SC APC Connectors: The **LC APC** and **SC APC** connectors are engineered with angled polishing, which reduces signal reflection and ensures high return loss, making them perfect for long-distance data transmission in high-speed networks.

Simplex Configuration: The **Simplex design** offers one-way fiber transmission, ideal for point-to-point single-fiber connections in a variety of fiber optic systems, including telecommunications and data centers.

Durable 3.00mm Jacket: The **3.00mm** outer jacket provides superior protection against physical damage, while maintaining flexibility for easy handling and installation in tight spaces.

Single-Mode OS2 Fiber: The **OS2 single-mode fiber** ensures minimal attenuation over long distances, making it suitable for high-bandwidth and high-speed applications, such as internet backbone or enterprise networks.

Low Insertion Loss & High Return Loss: Designed to minimize signal loss during transmission and reduce reflection, ensuring high-quality data transfer and network performance.

Product Advantages:

High Signal Integrity: The **LC APC and SC APC connectors** deliver low insertion loss and high return loss, making this patch cord ideal for sensitive high-speed fiber optic communication systems that demand minimal interference and signal degradation.

Long-Distance Performance: The **single-mode OS2 fiber** ensures minimal signal loss over long distances, making this patch cord suitable for backbone connections and other long-distance applications that require high-speed, reliable performance.

Enhanced Durability: The **3.00mm jacket** offers added strength and protection against damage, ensuring the cable withstands physical wear and environmental factors while maintaining performance.

Versatile Connectivity: With **LC APC** and **SC APC** connectors, this patch cord is ideal for connecting equipment like routers, patch panels, fiber switches, and other networking hardware, commonly found in **data centers**, **telecommunications**, and **fiber-to-the-home (FTTH)** installations.

Cost-Effective and Long-Lasting: Built with high-quality materials, this patch cord offers a cost-effective solution for long-term use in critical fiber optic networks, reducing the need for frequent replacements and maintenance.

Flexible Installation: The **3-meter length** provides the flexibility needed for medium-range installations, offering enough reach for typical data center and networking setups, while maintaining ease of routing in confined spaces.

The **Patch Cord LC APC to SC APC 3.00mm Simplex 3M** offers a reliable, high-performance solution for fiber optic networks, ensuring high-speed data transmission with minimal signal loss. It is perfect for a wide range of applications in

telecommunications, data centers, and fiber optic installations where high-quality, long-distance connections are needed.

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