

# 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.