# Single-mode dual-core SC-LC fiber optic patch cord



## Overview

LC and SC fiber optic patch cables in OS2 single-mode and OM3/OM4/OM5 multimode. UPC & APC polish options. LSZH rated, custom lengths available.

## Key Takeaways

A single-mode dual-core SC to LC fiber optic patch cord is a duplex 9/125 µm OS2 fiber cable designed for long-distance, high-performance network connections.

### Key Features

Fiber Type: Single-mode OS2 (9/125 µm), optimized for long-distance transmission up to 10 km at 1310 nm and 40 km at 1550 nm, with low attenuation rates of 0. 25 dB/km at 1550 nm and 0. 35 dB/km at 1310 nm.

Connector Types: SC connector on one end and LC connector on the other, available in duplex configuration for dual-core connectivity. Cable Diameter and Jacket: Typically 3. 0 mm diameter with a yellow OFNR (Optical Fiber Non-Conductive Riser) jacket for indoor use, providing durability and easy identification.

Polish Options: UPC (Ultra Physical Contact) or APC (Angled Physical Contact) polish for minimal signal reflection and optimal performance. Length Options: Available in standard lengths from 0. 3 m to 100 m, with custom lengths available upon request.

Testing and Reliability: Each patch cord is functionally tested for insertion loss and return loss to ensure high network uptime and reliable performance.

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### Applications

Data Centers and Enterprise Networks: Ideal for connecting patch panels, network switches, and servers in high-speed Ethernet, Fiber Channel, and GPON networks.

### Telecom and Long-

Distance Links: Supports 10GBASE-LR, 1000BASE-LX, and ATM applications, making it suitable for mission-critical long-distance single-mode networks. Hybrid Infrastructure: Bridges SC and LC connector infrastructures, allowing seamless integration between legacy and modern equipment.

### Advantages

High Performance: Low signal loss and high transmission efficiency ensure minimal degradation over long distances. Durable and Flexible: LSZH or OFNR jackets provide safety in enclosed spaces and resistance to bending, with minimum installation bending radius of 5 cm. Versatile: Duplex configuration supports dual-core communication, enabling simultaneous bidirectional data transmission.

In summary, a single-mode dual-core SC to LC fiber optic patch cord is a reliable, high-performance solution for long-distance network connections, offering duplex connectivity, low signal loss, and compatibility with both legacy SC and modern LC interfaces, making it suitable for data centers, telecom, and enterprise applications.

## Article Content

LC & SC Fiber Optic Patch Cables

LC and SC fiber optic patch cables in OS2 single-mode and OM3/OM4/OM5 multimode. UPC & APC polish options. LSZH rated, custom lengths available.

Fiber Optic Patch Cord Duplex SC to LC Single Mode

The Polyphaser FPC2SCLC-0SMRY30-15 is a SC to LC Duplex 9/125 single mode 3.0mm diameter fiber optic Patch Cord best used for long cable runs in any

OS2 Single Mode Fiber Optic Cables, SMF Duplex Cables

Get OS2 single mode duplex fiber patch cables for 1G/10G/40G/100G/400G Ethernet fiber connections to transport data up to 10km at 1310nm and 40km at 1550nm.

Single Mode Patch Cords

Techlogiks Single Mode fiber patch cords provide connections from active components to patch panels and to wall outlets. Available in a variety of cable

Fiber Optic Patch Cords and Pigtails | Leviton Network

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Leviton has patch cords for every type of application. Multimode and single-mode cords are available in SC, ST, LC, or hybrid options.

LC-SC OS2 Singlemode Duplex Fiber Patch Cable

Optcore offers an extensive line of LC to SC 9/125µm OS2 single-mode duplex fiber optic patch cables with many choices of different lengths, jacket material, polish,

Value pick: yizhou fiber optic patch cords – lightning-fast data ...

Ship/yizhou lc/sc/fc/st fiber optic pigtail s813 single-core single-mode os2 and multi-mode s817-om3, with a wire diameter of 2.0mm and a moderate length of 1m, are very convenient for

What Is Fiber Patch Cord? Singlemode/Multimode,LC SC FC,UPC Vs

Ultimate Fiber Optic Patch Cord Guide: Classification, Connector Types, End Faces, Industry Applications & Purchase Checklist With the booming development of 5G, cloud computing,

Fiber Optic Patch Cord Types

Today, manufacturers have introduced various fiber optic patch cord types tailored to different application scenarios, such as MPO/LC/SC/FC/ST patch cords, simplex/duplex patch cords,

HOLIGHT Fiber Optic Manufacturer in China | Patch Cords

HOLIGHT is a global fiber optic manufacturer in China, providing patch cords, adapters, terminal boxes and FTTH solutions for worldwide telecom projects.

Fiber Optic Cable Supplier, Distributor

Stocking distributor of fiber optic installation tools, bulk fiber cables, fiber patch cables, test equipment, cable management, fiber optic training and more.

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Understanding Fiber Optic Pigtails: Types and Classifications Simplified

Fiber Optic Pigtails are favored for their low insertion loss, high return loss, good interchangeability, and repeatability, making them very convenient to use. In general, multimode

bahrain-imported-dual-core-optical-cable-wholesale Manufacturer ...

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Single Mode Fiber Cables, Single-mode Duplex Cables, OS2 Patch

OS2 LC to SC 9/125 Single-mode Duplex Fiber Optic Patch Cable, manufactured with the highest quality Corning optical fiber glass and terminated with 1.25mm LC and 2.5mm SC ceramic ferrule connectors.

Fiber Optic Patch Cords | SC, LC, and ST | SM/MM – Primus Cable

Fiber optic patch cords are used for short distance installations that connect to patch panels, switches and telco equipment. We supply patch cords in single mode and multi-mode options.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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