

Multimode fiber optic single-mode patch cord

Ordering information

NO.	1	2	3	4	5	6
Model	SPT2001	SPT2002	SPT2004	SPT2005	SPT2002	SPT2004
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration						
HU	1	2	4	1	2	4
Maximum number of cores	144	288	576	144	288	576
Product size (including modules and adapters)	482.6*271*1744 mm	482.6*271*1763 mm	482.6*271*1717 mm	482.6*271*1744 mm	482.6*271*1763 mm	482.6*271*1717 mm
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

AI Overview

Single-mode fiber patch cords are ideal for long-distance, high-speed transmission, while multimode fiber patch cords are optimized for short-range, high-bandwidth connections within data centers. Overview Fiber optic patch cords, also called fiber jumpers, are short cables with connectors on both ends used to interconnect devices such as transceivers, switches, and patch panels. They differ from backbone trunk cables in that they are flexible, frequently handled, and critical for maintaining signal quality. Choosing the correct type—single-mode (SMF) or multimode (MMF)—is essential for network performance, cost efficiency, and long-term scalability.

Key Differences

Feature	Single-Mode Fiber (SMF)	Multimode Fiber (MMF)
Core Size	~8-9 μm	50-62.5 μm
Light Propagation	Single light mode	Multiple light modes
Transmission Distance	Long-range (kilometers)	Short-range (up to 500 m for OM4/OM5)
Bandwidth & Speed	High scalability for 100G, 400G, and beyond	High speed over short distances; limited by modal dispersion
Typical Applications	Telecom backbones, metro networks, long-haul data links	Data centers, LANs, intra-building connections
Connector Types	LC-LC, SC-LC, OM3/OM4 duplex	LC-LC, SC-LC, OM3/OM4 duplex
Cost Considerations	Higher transceiver cost (LR/ER/ZR optics)	Lower transceiver cost (SR optics)
Color Coding	Yellow (OM1/OM2), Aqua (OM3/OM4), Lime/Violet (OM5)	Yellow (OM1/OM2), Aqua (OM3/OM4), Lime/Violet (OM5)

Applications and Use Cases

Single-Mode Fiber Patch Cords: Used for long-distance, high-speed networks such as telecom backbones, metro rings, and dark-fiber leases. They minimize modal dispersion and maintain low attenuation over tens of kilometers, making them suitable for 10-100 GbE and beyond.

Multimode Fiber Patch Cords: Ideal for short-distance, high-bandwidth environments like data centers and campus networks. Modern OM3/OM4/OM5 fibers support 10G-100G speeds over distances up to 500...

Article Content

Fiber Optic Color Code: The Ultimate TIA-598-C Guide

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily identify 1-144 core cables.

Fiber Patch Cables Explained 2025: Types, Connectors,

Learn about fiber patch cables, their types (single-mode vs multimode), connectors (LC, MPO, MDC/CS), and use cases in data centers.

Optical Fiber Patch Cables (Single Mode, Multimode & 10G)

Pre-terminated single mode, multimode, and 10G fiber patch cables with SC, ST, LC, MTRJ, FC, E2000, VF45 connectors. Mode conditioning, PM fiber, LSZH, reversed polarity.

5 Key Differences OEM Buyers Must Know Between

Understand the 5 key differences between single mode and multimode fiber patch cords. This OEM guide covers distance, bandwidth, transceiver cost,

Fiber Optic Patch Cord Guide: Types, Connectors

Confused about fiber optic patch cords? Learn the differences between single mode and multimode, LC vs SC vs MPO connectors, and how to

Fiber Optic Patch Cord, Single Mode & Multimode

We also provide OEM services including customized colors, cable printing, and packaging design for fiber patchcords. Our products have obtained RoHS, UL,

Fiber Optic Patch Cord Guide: Single-mode vs

Learn about fiber optic patch cords, differences between single-mode & multimode, and how to select the right one for your network. Expert advice

Fiber Patch Cable Selection Guide 2026: How to

Executive Summary: Choosing the right fiber patch cable is one of the most consequential decisions in network infrastructure planning. The wrong

Single Mode vs. Multimode Fiber: Core Differences and

How do you choose between single mode and multimode fiber? Compare their differences in core size, light source, bandwidth, transmission

Fiber Optic Patch Cord

Fiber Optic Patchcord Series by Fiber4u For over 20 years, Fiber4u has been the top choice for fast, cost-effective solutions in Fiber Optics, Rack Cabinets, and Copper network products. By partnering

Fiber Optic Patch Cables: The Complete 2026 Buyer's

Q: Can I use a single-mode patch cable with a multimode transceiver? A: No. Single-mode and multimode fiber are fundamentally

Fiber Optic Pigtails | SC, LC, ST Single Mode & Multimode

Overview of Fiber Optic Pigtails A fiber optic pigtail is a fundamental component for terminating fiber optic cables. It consists of a short length of fiber optic cable with

Structured Cabling Solutions

ICC is a structured cabling solutions manufacturer of copper & fiber optic connectivity products for commercial & residential applications.

5 Best LC Fiber Optic Patch Cord | Stop Replacing Broken Pigtails

The LC fiber optic patch cord that fits your link depends on whether you need single-mode reach, multimode density, or a multi-pack for a structured cabling refresh.

Fiber Optic Cable Types | Omnitron Systems Guide

Conclusion Understanding fiber optic cable types, fiber core sizes, and proper installation methods is essential for building high-speed, reliable fiber networks.

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST

These special fiber optic patch cords are duplex multimode patch cables with a small length of single-mode fiber at the start of the transmission

Multimode vs Single Mode Fiber Patch Cords: Which

Find out how to choose between single mode patch cord, LC LC single mode, SC LC single mode, and duplex OM3 multimode fiber for reliable network

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Select The Right Fiber Patch Cables For 1G/10G/25G

Deploying optical modules requires the right fiber patch cable. It directly affects network connection stability, performance, and maintenance. This

LC Fiber Patch Cables | Singlemode & Multimode with

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