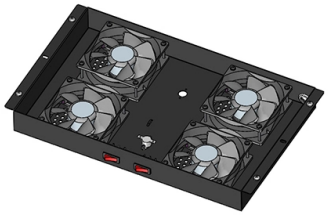
Fiber Optic Connector for Switch



Overview

Application Guide: Connecting Fiber-ready Network Most modern fiber-enabled network switches require an SFP transceiver module featuring a duplex (two stra.

Key Takeaways

The most common fiber optic connectors for switches are LC, SC, and MT-RJ, often used with SFP or XENPAK modules depending on the switch model and fiber type. Common Connector TypesLC (Lucent Connector): Small form-factor connector with a 1. 25mm ferrule, ideal for high-density switch ports and SFP/SFP+ modules.

It uses a latch mechanism similar to an RJ45 plug, providing secure connections in tight spaces.

S

C (Subscriber Connector): Square body with push-pull coupling, widely used in switches, routers, and GBIC transceivers. Offers good mechanical stability but larger footprint than LC. MT-RJ (Mechanical Transfer-Registered Jack): Used in some 100BASE-FX ports, supports multimode fiber (50/125 or 62.

5/125 micron) and allows easy connection to SC or ST ports via patch cables.

S

T (Straight Tip): Round body with bayonet-style lock, less common in modern switches but still used in legacy networks.

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Switch-

Specific Considerations

Cisco Catalyst 3750: Uses SFP modules for fiber-optic uplinks. 100BASE-FX ports support MT-RJ connectors, while 10-Gigabit XENPAK modules use SC connectors. SFP/SFP+ Modules: LC connectors dominate in modern SFP/SFP+ modules due to compact size and high port density.

Single-mode vs Multimode: Single-mode fiber is preferred for long-distance connections, while multimode fiber is suitable for shorter distances within data centers or buildings.

Practical Tips

Ensure the connector type matches the switch port and the fiber type (single-mode or multimode) to avoid signal loss or incompatibility. Use high-quality patch cables with low insertion loss and high return loss for reliable performance. For connecting multiple switches over long distances, single-mode fiber with LC-LC couplers is recommended for high bandwidth and minimal signal degradation.

Keep connectors clean and dust-free, as contamination can significantly degrade optical performance. By selecting the correct connector type and matching it to the switch module and fiber type, you can ensure efficient, high-speed, and reliable network connections.

Article Content

Application Guide: Connecting Fiber-ready Network

Most modern fiber-enabled network switches require an SFP transceiver module featuring a duplex (two strand) multimode OM3 or duplex single mode OS2

Connecting Network Switches via Fiber

SFP transceiver modules are specific to the type of fiber being connected (either single mode or multimode). Choose an SFP module based on the fiber optic

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Cables and Connectors

The supplied RJ-45-to-DB-9 adapter cable is used to connect the console port of the switch to a console PC. You need to provide an RJ-45-to-DB-25 female DTE adapter if you want to connect the switch

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