

Where to plug the patch cord into the fiber optic transceiver



Overview

SFP modules typically use LC connectors (duplex for transmit/receive). Ensure the fiber patch cable's connector type (LC/SC/MPO) matches the module.

Key Takeaways

Plug the patch cord's TX (transmit) connector into the SFP module's TX port and the RX (receive) connector into the RX port, ensuring proper alignment and secure connection.

Step-by-

Step Connection1.

Prepare the SFP Module and Patch Cord

Ensure the SFP transceiver is fully inserted into the network device port until it clicks into place. Remove dust caps from both the SFP ports and the fiber patch cord connectors. Clean the fiber end faces with lint-free wipes and isopropyl alcohol to prevent contamination.

2.



Identify TX and RX Ports

Duplex SF

P modules have separate TX (transmit) and RX (receive) ports. The patch cord must be connected so that the TX of one device connects to the RX of the opposite device to establish a proper optical link. 3.

Connect the Patch Cord

Align the LC (or other compatible) connector with the SFP port. Gently push the connector into the port until it clicks, ensuring it is fully seated. Avoid forcing the connector, as misalignment can damage the transceiver or cable.

4.

Cable Management and Routing

Follow bend-radius guidelines to prevent excessive stress on the fiber. Secure excess cable with velcro straps or cable managers to avoid tension or tight loops. 5.

Verify the Connection

Test the link using network testing tools or an OTDR to ensure proper signal transmission and minimal insertion loss.

Additional Tips

Always match the connector type (LC, SC, MPO/MTP) to the SFP module. Never cross-mate SC/APC with SC/UPC connectors, as incompatible endface geometry can degrade performance. Clean connectors immediately before mating, even if they appear clean, to maintain low insertion loss and stable return loss.

By following these steps, the fiber optic patch cord will be correctly connected to the SFP transceiver, ensuring reliable network performance and long-term signal integrity.

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