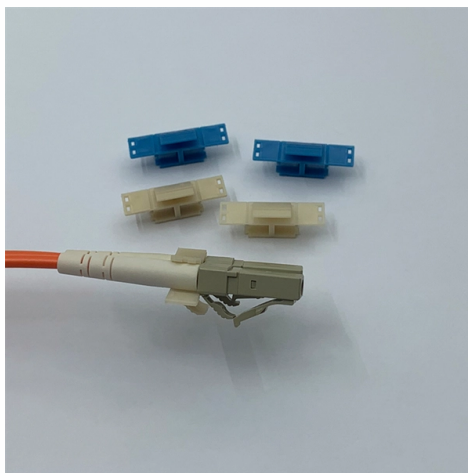


RIVO MULTITRADE OPTICAL SYSTEMS

The switch has two fiber optic cables



Overview

Connecting Network Switches via Fiber Choose an SFP module based on the fiber optic cabling that will be connected to the network switches. SFP transceiver.

Key Takeaways

Two fiber optic cables on a switch are typically used for redundancy or increased bandwidth, often configured as an EtherChannel to prevent loops and ensure failover. Purpose of Two Fiber Connections

Having two fiber optic cables connected to a switch can serve two main purposes:

- Redundancy – If one fiber link fails, the other maintains connectivity, preventing network downtime .
- Increased Bandwidth – By combining the two links into a Layer 2 EtherChannel, the switch can aggregate bandwidth, allowing higher throughput between switches .

Key Considerations

When connecting switches with dual fiber links, ensure the following:

- Fiber Type: For short distances (under 25 meters), multi-mode fiber (MMF) is sufficient; for longer distances, single-mode fiber (SMF) may be required .
- SFP Modules: Each fiber cable requires an SFP or SFP+ transceiver on both ends. The module type must match the fiber type and support the desired speed .
- Connectors: LC connectors are commonly used for SFP modules, while SC connectors are less common for modern switches .

- **Wavelength and Compatibility:** Ensure both SFP modules have the same wavelength and are compatible with the switch ports .

- **Port Configuration:** If using EtherChannel, configure the switch ports accordingly to combine the two links logically and prevent loops .

Best Practices

- **Use EtherChannel for Dual Links** – This allows both links to be active simultaneously and provides automatic failover if one link fails .

- **Avoid Loops** – Do not connect multiple switches in a way that creates a loop without spanning tree protocol (STP) or EtherChannel, as this can cause broadcast storms .

- **Check SFP Compatibility** – Ensure the SFP modules are supported by the switch model and match the fiber type and distance requirements .

- **Verify Link Status** – After connecting, check the interface status (show interface status or sh ip int brief) and ensure VLANs are active. Unlike copper connections, fiber links may require enabling the interface manually (no shutdown) and verifying SFP recognition .

Summary

Connecting two fiber optic cables to a switch is a common practice for redundancy and bandwidth aggregation. Proper selection of fiber type, SFP modules, and connectors, along with correct EtherChannel configuration, ensures a reliable, loop-free, and high-performance network connection between switches .

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The fiber cable in question has 3 splices, and each splice has of course 2 ends connecting together for a total of 6 connectors. Then

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