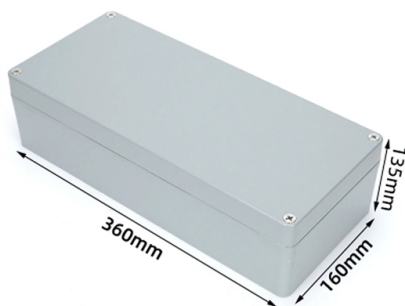


RIVO MULTITRADE OPTICAL SYSTEMS

How to connect a fiber optic SC connector to a router



Overview

Fiber optic cables use various connectors like LC, SC, or ST, which are physically different. Electrical vs.

Key Takeaways

To connect a fiber optic SC connector to a router, you typically plug the SC connector into an Optical Network Terminal (ONT) and then link the ONT to your router via an Ethernet cable.

Required Equipment

- Fiber Optic Cable with SC Connector: Usually single-mode SC/APC or SC/UPC, provided by your ISP .
- Optical Network Terminal (ONT): Converts optical signals to electrical signals for your router .
- Router: Must support Ethernet WAN input; some routers have direct SFP ports for fiber .
- Ethernet Cable: To connect the ONT to the router .
- Cleaning Supplies: Alcohol wipes and lint-free cloths to clean connectors before insertion .

Step-by-Step Connection

- Locate the Fiber Outlet: Identify the wall outlet where your ISP's fiber line terminates .

- **Prepare the SC Connector:** Ensure the SC connector is clean and free of dust. Use alcohol wipes if necessary .
 - **Connect to the ONT:** Insert the SC connector into the designated port on the ONT. Align the connector carefully and push until it clicks into place .
 - **Power On the ONT:** Plug in the ONT and wait for the status lights to stabilize (usually 2-5 minutes), .
 - **Connect ONT to Router:** Use an Ethernet cable to connect the ONT's LAN port to your router's WAN port .
 - **Power On the Router:** Turn on the router and wait for the indicator lights to confirm a successful connection .
 - **Verify Connection:** Access the router's admin panel via a browser (e.g., 192.168.1.1) to ensure the internet connection is active .
- Tips for Optimal Performance
- **Handle Fiber Carefully:** Avoid bending or twisting the fiber cable, as it can damage the glass strands .
 - **Clean Connectors:** Dust or dirt can cause signal loss; always clean SC connectors before connecting .
 - **Check Compatibility:** Ensure your router supports the speed and type of fiber connection provided by your ISP .
 - **Avoid Excessive Force:** SC connectors click into place; do not force them, as this can damage the port or connector . By following these steps, you can safely and efficiently connect a fiber optic SC connector to your router, ensuring high-speed and reliable internet performance.

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