

Fiber Optic Router Cables



AI Overview

A fiber optic router cable connects your Optical Network Terminal (ONT) to a router, enabling high-speed internet by converting light signals into electrical signals.

Key Components

- **Optical Network Terminal (ONT):** This device, usually provided by your ISP, converts incoming light signals from the fiber optic line into electrical signals that your router can interpret .
- **Fiber-Ready Router:** Ensure your router supports gigabit speeds or higher and has a WAN or SFP port compatible with fiber connections .
- **Fiber Optic Cable:** Typically a thin, yellow cable with SC/APC or SC/UPC connectors, used to link the wall outlet to the ONT .
- **Ethernet Cable:** A Cat6a or higher cable connects the ONT to your router, maintaining optimal speeds up to 10 Gbps .

Connection Steps

- **Install the ONT:** Locate the fiber wall outlet and connect the fiber optic cable to the ONT's optical port. Power on the ONT and wait for the status lights to stabilize .
- **Connect ONT to Router:** Use an Ethernet cable to link the ONT's LAN/Ethernet port to the router's WAN port. Power on the router and confirm the connection via indicator lights .
- **Router Configuration:** Access the router's admin panel through a browser (e.g., 192.168.1.1) and enter ISP credentials if required .

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