

Fiber optic cable plugged into the back panel of the router

Article Overview

A fiber optic cable cannot usually be plugged directly into a standard router; it must first connect to an Optical Network Terminal (ONT) that converts the optical signal into an electrical signal for the router.

Understanding the Components

- **Fiber Optic Cable:** Transmits data as pulses of light through thin glass or plastic strands. Residential fiber typically uses single-mode cables with SC/APC or LC connectors .
- **Optical Network Terminal (ONT):** Provided by your ISP, the ONT converts the incoming light signal from the fiber into an electrical signal that your router can interpret .
- **Router:** Distributes the internet connection to your devices via Wi-Fi or Ethernet. Standard routers usually have a WAN or Internet port for Ethernet input, not a direct fiber input .

Connection Process

- **Locate the Fiber Wall Outlet:** This is where the ISP's fiber line enters your home .
- **Connect Fiber to ONT:** Remove protective caps from both the fiber cable and the ONT port. Align the connector carefully and insert it until it clicks securely . Handle the fiber connector by its plastic housing to avoid damage.
- **Link ONT to Router:** Use a high-quality Ethernet cable (Cat6a or higher) to connect the ONT's LAN/Ethernet port to the router's WAN port

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6. Turn on the router: Once the fiber optic cable is connected to the router, turn the device back on and wait for the

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How to Connect Fiber Optic Cable to Router: A Step-by

However, setting up a fiber optic connection to your router can seem daunting if you're

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