

RIVO MULTITRADE OPTICAL SYSTEMS

Which cable in the router has the fiber optic port



Overview

What you cannot do is plug the fiber optic cable directly into a normal router. This is the part that trips people up.

Key Takeaways

A standard Ethernet cable connects your router to the Optical Network Terminal (ONT), which converts the fiber optic signal into a format your router can use. Understanding the Connection

Fiber optic cables cannot plug directly into a standard home router because routers require electrical signals, while fiber transmits data as light. The fiber line terminates at an Optical Network Terminal (ONT), provided by your internet service provider, which converts the optical signal into an electrical signal compatible with your router .

Required Cables and Ports

- Fiber Optic Cable: This cable runs from the wall outlet or fiber drop to the ONT. It typically has SC/APC or SC/UPC connectors and should be handled carefully to avoid dirt or damage .



- **Ethernet Cable:** After the ONT converts the signal, a Cat6 or higher Ethernet cable connects the ONT's LAN or Ethernet output port to the WAN (Internet) port on your router . This is the cable that bridges your home network to the fiber internet service.

Step-by-Step Connection

- **Install the ONT:** Connect the fiber optic cable from the wall outlet to the ONT's optical port. Ensure the connector clicks securely into place.
- **Link ONT to Router:** Use an Ethernet cable to connect the ONT's Ethernet output to the router's WAN port. The WAN port is usually labeled and may be colored differently from LAN ports.
- **Power Up:** Turn on the ONT first to allow it to establish a connection with your ISP, then power on the router.
- **Verify Connection:** Check your router's indicator lights and test internet access on a device to confirm the connection is active .

Additional Tips

- Place both the ONT and router near a power outlet and in a dry, ventilated area.
- Avoid bending or stressing the fiber optic cable, as it is fragile.
- For optimal performance, use high-quality Ethernet cables (Cat6a or higher) to maintain gigabit speeds . By following this setup, your router will receive a stable internet signal from the fiber optic network through the ONT, ensuring high-speed connectivity throughout your home.

Article Content

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