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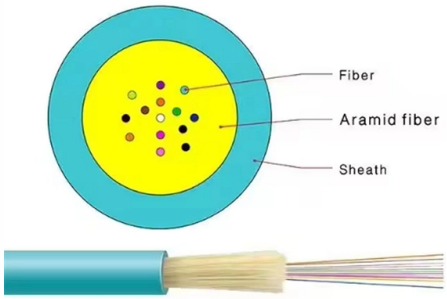
How to connect the whole-house fiber optic cable to the router



Overview

How to Connect a Fiber Optic Cable to a Router Setting up a fiber internet connection requires understanding key hardware components and following a specif.

Key Takeaways

Fiber optic cables connect to a whole-house router via an Optical Network Terminal (ONT), which converts light signals into Ethernet for your router.Step 1: Gather Necessary Equipment

To set up fiber internet, you will need:

• Optical Network Terminal (ONT): Provided by your ISP, it converts optical signals to electrical signals your router can use .

• Fiber optic cable: Usually single-mode with SC/APC or SC/UPC connectors .

• Ethernet cable (Cat6a or higher): Connects the ONT to your router .

• Fiber-ready router: Ensure it has a WAN port or SFP slot compatible with your ONT .
Step 2: Install the ONT
• Locate the fiber wall outlet where the ISP's fiber enters your home .

• Connect the fiber optic cable from the wall outlet to the ONT's optical port, handling the connector carefully to avoid dirt or damage .

• Power on the ONT and wait for the status lights to stabilize, which may take a few minutes .
Step 3: Connect the ONT to Your Router
• Use an Ethernet cable to connect the ONT's LAN/Ethernet port to the WAN port on your router .

• Power on the router and wait for the indicator lights to confirm a successful connection .
Step 4: Configure Your Router
• Access the router's configuration interface via a web browser (commonly 192.168.0.1 or 192.168.1.1), .

• Enable Quality of Service (QoS) if you use VoIP, video calls, or gaming to prioritize traffic .

• Verify that the router is receiving internet from the ONT and that Wi-Fi coverage is sufficient for your home. For larger homes, consider mesh Wi-Fi devices to extend coverage .
Step 5: Placement and Maintenance
• Place both the ONT and router near power outlets in a dry, ventilated area .

• Avoid bending fiber cables beyond manufacturer recommendations to prevent signal loss .

• Use a surge protector to safeguard your equipment. By following these steps, your fiber optic connection will be properly converted and distributed through your whole-house router, ensuring high-speed, low-latency internet throughout your home .

Article Content

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