

# How to connect the panel after fiber optic cable is installed in your home



## AI Overview

To connect a fiber optic cable to your home panel, the cable is terminated with a connector and plugged into an Optical Network Terminal (ONT) near your electrical panel, which then links to your router for internet access.

**Step-by-Step Process**

1. Prepare the Fiber Optic Cable Before connecting, ensure you have the correct fiber optic cable for your home setup. Use a fiber optic termination kit to attach connectors to the cable ends. This requires a cleaver to cut the fiber precisely and a stripper to remove the protective coating without damaging the strands.
2. Install the Optical Network Terminal (ONT) The ONT is typically installed near your electrical panel, basement, or garage. It converts the fiber signal into data your devices can use. The ONT must be powered, so ensure it is connected to a nearby electrical outlet or breaker panel.
3. Connect the Fiber to the ONT Once the cable is terminated, carefully plug the fiber connector into the ONT port. Handle the fiber gently to avoid bending or breaking the delicate strands. Keep the connector clean and free of dust to prevent signal loss.
4. Link the ONT to Your Router Use a Cat6 Ethernet cable to connect the ONT to your router. This allows your router to distribute internet to all devices in your home via Wi-Fi or wired connections.
5. Optional Backup and Surge Protection Consider adding a UPS or surge protector to keep the ONT and router running during power outages and protect against electrical surges.
6. Test the Connection After connecting, power on the ONT and router. Test the internet connection using a computer or smartphone. If speeds are lower than expected, check the fiber connections and ensure the cable is not bent or damaged. Tools like an Optical Time-Domain Reflectometer (OTDR) or visual fault locator can help diagnose issues.
7. Safety Precautions Always wear gloves and eye protection whe...

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## Everything you need to know about fiber optic termination

Fiber Optic Termination Tutorial We terminate fiber optic cable two ways - with connectors that can mate two fibers to create a temporary joint and/or connect the fiber to a piece of network gear or with

## Contact Us

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