

## How to connect the power 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 router via an Optical Network Terminal (ONT), which converts light signals to electrical signals, and both the ONT and router must be powered separately. Step 1: Gather Necessary Equipment

You will need:

- Fiber optic cable with SC/APC or SC/UPC connectors
- Optical Network Terminal (ONT) provided by your ISP
- Router compatible with fiber input (SFP, PON, or WAN port)
- Ethernet cable (Cat6a or higher recommended)

• Power adapters for both the ONT and router

Step 2: Connect Fiber Cable to ONT

- Locate the fiber wall outlet where your ISP's fiber line enters your home.
- Remove protective caps from both the fiber cable and the ONT port.

- Align the connector using the key or tab and insert it until it clicks securely. Handle the fiber by its plastic housing to avoid damage .

#### Step 3: Power the ONT

- Plug the ONT's power adapter into a nearby electrical outlet.
- Wait 2-5 minutes for the ONT to boot and stabilize; indicator lights should turn solid green, showing it is receiving power and connected to the network .

#### Step 4: Connect ONT to Router

- Use an Ethernet cable to connect the ONT's LAN/Ethernet port to the router's WAN/Internet port.

- Ensure the cable is fully seated in both ports .

#### Step 5: Power the Router

- Plug the router's power adapter into an electrical outlet.
- Wait for the router to boot; indicator lights should confirm a successful connection.
- Place both devices in a dry, ventilated area near power outlets, ideally with surge protection .

#### Step 6: Verify Connection

- Check the ONT and router lights for proper status.
  - Access the router's web interface if needed to configure settings according to your ISP instructions .
- #### Tips for Safety and Performance
- Avoid bending or stressing the fiber cable; it is fragile and can break easily.
  - Keep connectors clean to prevent signal loss.
  - Use gloves and eye protection when handling fiber strands to avoid injury .
- By following these steps, your fiber optic internet should be properly connected, powered, and ready for use.

## Article Content

How to Connect a Fiber Optic Cable to a Router

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You can't connect it directly. There's different kinds of fiber and terminations, so we'd be guessing and trying to guide you in

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