

Should the network cable be plugged into the router or the fiber optic cable

Article Overview

The fiber optic cable should connect to an Optical Network Terminal (ONT), and then an Ethernet cable from the ONT should be plugged into your router's WAN port.

Why You Don't Plug Fiber Directly into a Router

Fiber optic cables transmit data as light pulses, while standard home routers use electrical signals over Ethernet (RJ45) connections. Because of this difference, a direct connection from fiber to a typical router is not possible . The ONT acts as a converter, translating the optical signals from the fiber into electrical signals that your router can understand .

Correct Connection Sequence

- **Fiber Cable to ONT:** Plug the fiber optic cable from your wall outlet into the ONT's optical port. Handle the fiber connector carefully to avoid dirt or damage .
- **ONT to Router:** Use a high-quality Ethernet cable (Cat6 or better) to connect the ONT's Ethernet/LAN port to the WAN port on your router .
- **Power and Configure:** Power on the ONT first, wait for the status lights to stabilize, then power on the router. Access the router's admin panel to configure settings if required .
- **Test the Connection:** Connect a device via Wi-Fi or Ethernet and run a speed test to ensure the fiber connection is functioning properly .

Optional Configurations...



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A router needs to be plugged into a power source for electricity and a modem for an Internet connection. Additionally, it

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I bought an ASUS RT-AX86U Pro and want to use it instead of my ISP router. The problem is that the cable in the

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The fiber is threaded through and the hole is sealed around the cable with a wall plate installed on the interior side.

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Many people ask the same question: Can you use a fiber optic cable with an RJ45 port?

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Fiber Optic Home Installation: A Simple Guide for Homeowners

Optical Network Terminal (ONT): A device near your electrical panel that turns the fiber signal into internet for your

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Should my router be plugged into internet or Ethernet?

To access the internet, your router needs to connect to your modem (or ONT for fiber connections). This critical

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Does an ethernet cable need to go through a router?

I will assume it is for internet service. You get internet service for your computer by plugging your computer into the

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However, setting up a fiber optic connection to your router can seem daunting if you're unfamiliar with the process. In

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I have a fibre optic cable incoming to an ONS, on the way out of the ONS is also a fibre optic cable which goes directly

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Discover how fiber optic internet is installed in your home. Learn about the installation process, equipment needed,

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Fiber vs. Cable Internet 101: The Best Tips | Dong Knows Tech

Wondering which to get between Fiber vs. Cable Internet, this post is for you. And, if you have the options, it's OK to

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What You Need to Install Fiber-Optic Internet

If your optical network terminal has loose fiber connectors, do not look into the end of the connector as this can cause

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When it comes to connecting your Ethernet cable, plugging it directly into the modem can offer several advantages.

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Fiber Optic Internet – A Complete Guide | Learn | Hitron

This Fiber optic Internet guide will give you high-level information about everything you need to know about Fiber. It should help you

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Where Should I Plug the Ethernet Cable into My Router?

Knowing where to plug your Ethernet cable into your router is crucial for a stable and fast wired internet connection;

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Learn about the various fiber-optic components used for running fiber in your house, office, or between buildings. Find

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Does an Ethernet Cable Need to be Plugged into a Router: Debunking ...

In conclusion, it is clear that an Ethernet cable does need to be plugged into a router in order to establish a wired

Contact Us

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