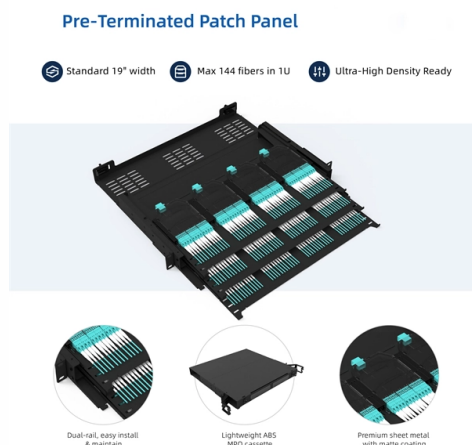


RIVO MULTITRADE OPTICAL SYSTEMS

Do I need to replace the fiber optic cable when changing my router



Overview

I live in a neighborhood where cable and internet is supplied by comcast. We are converting to fiber.

Key Takeaways

No, you do not need to replace the fiber optic cable when changing your router; you only need to ensure your new router is compatible with the existing ONT and supports the required speeds. How Fiber Internet Connections Work

Fiber internet uses an Optical Network Terminal (ONT) provided by your ISP, which converts the incoming light signals from the fiber optic cable into electrical signals that your router can use. The fiber optic cable runs from the ISP's network to the ONT, and from there, a standard Ethernet cable connects the ONT to your router. This means the fiber cable itself remains in place and does not need replacement when you upgrade or change your router.

Router Compatibility

When switching routers, the key considerations are:

- **WAN Port Type:** Your router must have a Gigabit Ethernet WAN port to connect to the ONT. Routers designed for DSL or cable (coaxial) connections will not work.
- **Speed Support:** Ensure the router can handle the speed tier of your fiber plan. Older routers may limit performance, especially if your plan exceeds 1 Gbps.

- **Wi-Fi Standard:** For optimal performance, a Wi-Fi 6 or 6E router is recommended, though modern Wi-Fi 5 routers can still work .

- **Configuration:** Some ISPs require specific settings such as VLAN, DHCP, or PPPoE, which you may need to configure in the router's admin panel .

When Fiber Cable Replacement Might Be Needed

Replacing the fiber optic cable is generally unnecessary unless:

- The cable is physically damaged or degraded.
- The ISP upgrades the fiber infrastructure and requires a new type of connector or cable.
- You are relocating the ONT to a different part of your home and need a longer fiber run. Otherwise, the existing fiber cable and ONT setup remain fully functional with a new router .

Summary

You can safely change your router without touching the fiber optic cable. Focus on router compatibility with the ONT, proper Ethernet connection, and configuration settings to ensure you achieve the full speed and reliability of your fiber internet service .

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Router Configuration: The technician connects your router to the ONT via an Ethernet cable, configures your Wi-Fi

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