

# Fiber optic cables can be connected to routers code



## Article Overview

Fiber optic cables cannot connect directly to standard routers; they require an Optical Network Terminal (ONT) to convert optical signals into electrical signals for the router.

### Understanding the Connection

Fiber optic internet transmits data as light signals, which standard routers cannot interpret directly. To bridge this gap, an Optical Network Terminal (ONT) is installed by your Internet Service Provider (ISP). The ONT converts the incoming light signals from the fiber into electrical signals that routers and other devices can use. The fiber cable physically connects to the ONT's optical port, typically using SC/APC or SC/UPC connectors, and the ONT then outputs data via an Ethernet port to the router.

### Required Equipment

- Optical Network Terminal (ONT): Converts fiber signals to Ethernet. Usually provided by the ISP.
- Fiber-Ready Router: Some routers have SFP or WAN ports labeled for fiber input; otherwise, a standard router connects via Ethernet from the ONT.
- Fiber Optic Cable: Thin, specialized cable with proper connectors (SC/APC or SC/UPC), .
- Ethernet Cable: Connects the ONT to the router's WAN port ....

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### Can We Use a Normal Router for a Fiber Optic Cable?

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