# 100 Mbps fiber optic cable with router



## Overview

The 10 Best Router For Spectrum 100mbps Review For 2026In the quest for optimal internet performance with Spectrum's 100Mbps plan, choosing the right route.

## Key Takeaways

You can set up a 100 Mbps fiber optic connection using a pre-terminated fiber cable with a media converter and a compatible router to achieve reliable high-speed networking.

### Fiber Optic Cable Options

For a 100 Mbps connection, pre-terminated fiber optic cables are a convenient choice. These cables come ready with connectors, such as LC-LC or SC, and support plug-and-play installation, reducing the need for field termination. They are suitable for both indoor and outdoor use, with protective anti-bend materials to prevent damage during installation.

Typical lengths include 100m, 300m, and 500m, and they can support speeds up to 1G or higher, making them future-proof for upgrades.

### Media Converters

Since most routers use RJ45 Ethernet ports, a media converter is required to connect fiber to copper Ethernet. The TP-Link MC100CM is a popular option for 100 Mbps setups. It converts 100BASE-FX fiber to 100Base-TX Ethernet and supports multi-mode fiber with SC connectors.

It can transmit data over distances up to 2 km and supports auto-negotiation for duplex and speed, ensuring compatibility with standard 10/100 Mbps routers.

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### Router Selection

To fully utilize a 100 Mbps fiber connection, a router capable of handling 100 Mbps or higher is recommended. Many modern routers, including dual-band WiFi 5 or WiFi 6 models, can easily handle 100 Mbps speeds. For example, routers like the NETGEAR Nighthawk C7000 provide dual-band wireless connectivity, multiple Ethernet ports, and security features, ensuring stable performance for streaming, gaming, and multiple devices.

When choosing a router, ensure it has gigabit Ethernet ports to avoid bottlenecks.

### Setup Overview

Connect the fiber optic cable to the media converter's fiber port. Connect the media converter to the router's Ethernet port using a standard RJ45 cable. Configure the router according to your ISP's settings.

Test the connection to ensure full 100 Mbps throughput.

### Additional Considerations

Ensure the fiber type (single-mode or multi-mode) matches the media converter and router setup. Pre-terminated cables simplify installation and reduce errors. For longer distances, multi-mode fiber is suitable up to 2 km, while single-mode fiber can cover much longer distances.

Keep the router firmware updated to maintain optimal performance and security. By combining a pre-terminated fiber optic cable, a 100 Mbps media converter, and a compatible router, you can achieve a reliable and high-speed fiber network suitable for home or small office environments.

## Article Content

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