

Dedicated network fiber optic cable



AI Overview

A dedicated fiber optic cable provides a private, high-speed, and reliable internet connection exclusively for one user or business, ensuring consistent performance and security.

What is a Dedicated Fiber Connection

A dedicated fiber optic cable is a private network connection that links a business or organization directly to an internet service provider (ISP) without sharing bandwidth with other users . Unlike shared fiber, where multiple users share the same line and speeds can fluctuate during peak usage, dedicated fiber guarantees consistent symmetrical upload and download speeds, making it ideal for high-demand applications .

Key Benefits

- **Guaranteed Bandwidth:** Users receive the full speed they subscribe to at all times, even during peak traffic periods .
- **Low Latency:** Dedicated fiber reduces delays, which is critical for real-time operations such as video conferencing, VoIP, and online transactions .
- **High Security:** Exclusive access minimizes the risk of data breaches and ensures sensitive information remains private .
- **Scalability:** Fiber infrastructure can support growing data demands, allowing businesses to upgrade speeds or expand network capacity as needed .
- **Reliability:** Service level agreements (SLAs) often accompany dedicated fiber or leased line contracts, guaranteeing uptime and rapid fault resolution

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PON is passive optical network and GPON is GigabitPON. Dedicated fiber connection is if you have a fiber that goes directly to a

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Dedicated fiber is point-to-point: no splitters, no wavelength sharing, no neighbor's traffic. Bandwidth, latency, jitter,

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Dedicated fiber is typically for Enterprise customers and the customer has a dedicated circuit back to the ISP switch. These

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Delivered over fiber-optic cables, dedicated fiber Internet comes with Service Level Agreements (SLAs) that

Contact Us

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