

What is the maximum transmission distance of multimode fiber optic cable in meters

The type, transmission rate, fiber material, and other factors affect the maximum transmission distance of fiber optic cable. This article also compares the maximum transmission ...

The maximum distance of copper is around 328 feet (100 meters), which is a far shorter range than is offered by either of the fiber optic cable types. This is because fiber optic cable is not ...

OM1 fiber can transmit data up to 33 meters at a data rate of 1 Gbps, while OM5 fiber can transmit data up to 550 meters at a data rate of 100 Gbps. This represents a more than 16-fold ...

Multimode fibers are categorized into OM1, OM2, OM3, OM4, and OM5, each with different bandwidth and distance capabilities. For example: OM1 and OM2: Support distances up to ...

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber selection.

It can transmit up to 550 meters for 1 Gigabit Ethernet and 82 meters for 10 Gigabit Ethernet. With a 500 MHz/km bandwidth, OM2 fiber is commonly used in Local Area Networks ...

This article explores the transmission distance limitations of multimode fibers across different transmission speeds, analyzes the key factors influencing these distances, and provides insights into ...

Match your fiber type to your distance needs and network speeds. The table below shows all critical distance specs across OM1 through OM5 and singlemode fiber for 2025 Ethernet standards.

The maximum transmission distance for multimode fiber cable is around 550m at the speed of 10Gbps. It can transmit farther at lower data rates, such as going about 2km at 100Mb/s.

For most enterprise or data center applications using multimode fiber, the practical limit sits between 300 m and 550 m. Single-mode fiber, by contrast, routinely spans tens of kilometers -- ...

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