

Ghana OM3 hybrid fiber optic cable



Overview

Fiber Optic Cables in Ghana for sale Prices on Jiji.com.ghFibre Optic Cables: Types, Benefits & Applications | NM Cabling A fiber optic cable is a network.

Key Takeaways

OM3 hybrid fiber optic cables in Ghana combine high-speed multimode fiber with copper conductors, enabling simultaneous data transmission and power delivery for versatile applications.Overview of OM3 Hybrid Fiber Optic Cables

OM3 fiber optic cables are multimode cables optimized for high-speed data transmission, supporting 10Gbps and higher over distances up to 300 meters. When integrated into a hybrid cable, OM3 fiber is combined with copper conductors, allowing the same cable to carry both data and power, which simplifies installation and reduces infrastructure clutter . These cables are particularly useful in environments where running separate power and data lines is impractical or costly.

Key Features

- High Bandwidth: OM3 fiber supports 10Gbps and higher, suitable for enterprise networks, data centers, and telecommunications .
- Hybrid Design: Copper conductors embedded alongside fiber allow for power delivery to devices such as remote cameras, sensors, or industrial equipment .
- Durability: Designed to resist temperature fluctuations, moisture, and electromagnetic interference, making them suitable for indoor, outdoor, and industrial applications .

- **Ease of Installation:** Combining power and data in a single cable reduces the number of cables needed, saving space and simplifying network layouts .

- **Standards Compliance:** High-quality OM3 hybrid cables use ceramic ferrules, low insertion loss, and high return loss, ensuring reliable signal integrity .

Applications in Ghana

- **Telecommunications Networks:** High-speed internet and communication links in urban and rural areas.

- **Industrial Automation:** Powering machinery while transmitting critical control data.

- **Remote Surveillance:** Supplying both power and video/data signals to cameras over long distances.

- **Data Centers:** High-bandwidth connections with reduced cabling complexity.

- **Transportation and Offshore Systems:** Reliable performance in harsh environments where both power and data are required .

Availability

OM3 hybrid fiber optic cables are available from local suppliers in Ghana, including online marketplaces like Jumia Ghana, which offers OM3 multimode patch cords and duplex cables, and specialized manufacturers like OMC Cable, which provide hybrid solutions tailored for industrial and telecommunications applications . When selecting a cable, consider the required length, bandwidth, and environmental conditions to ensure optimal performance. In summary, OM3 hybrid fiber optic cables in Ghana provide a robust solution for high-speed data transmission combined with power delivery, offering flexibility, durability, and simplified installation for a wide range of applications.

Article Content

Hybrid Fiber Optic Cable

These cables integrate fiber optics for high-speed data transfer and copper conductors for power delivery, making them ideal for

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The fiber optic cable is made of a transparent glass core surrounded by a mirror like covering called cladding. Light passes through

om3 multimode | Black Box

OM3 50/125 Multimode Bulk Fiber Optic Distribution Cable - Indoor/Outdoor, Interlocking Armored, Tight-Buffered, OFCP Plenum

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