

12-core Nigerian drop fiber optic cable



Overview

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Key Takeaways

A 12-core drop fiber optic cable in Nigeria is a multi-core cable designed for high-speed data transmission, suitable for FTTH (Fiber to the Home), campus networks, and telecom backbones.

Overview and Specifications

A 12-core fiber optic cable contains 12 individual optical fibers, allowing multiple data channels to run simultaneously. These cables are available in single-mode and multi-mode variants. Single-mode cables are ideal for long-distance communication, while multi-mode cables are better for shorter distances with high bandwidth requirements.

Typical features of Nigerian 12-core drop cables include: Outer sheath: Black or white, durable for outdoor or indoor use. Cross-section: Often 8-shaped with a central reinforcing member, which can be metal or non-metal (KFRP) for strength. Flexibility: Designed for easy installation in ducts, aerial setups, or direct burial.

Waterproofing and moisture resistance: Gel-filled loose tube design ensures protection against environmental factors. Applications: FTTH installations, campus networks, backbone internet connections, and telecom stations.



Advantages

High data capacity: Multiple cores allow parallel transmissions, increasing network reliability and redundancy. Durability: Resistant to moisture, UV, and mechanical stress, suitable for both indoor and outdoor environments. Local manufacturing: Companies like Coleman Wires and Cables produce high-quality fiber optic cables in Nigeria, supporting local infrastructure projects and ensuring compliance with global standards.

Pricing and Availability

Retail prices for 12-core fiber optic cables in Nigeria can start as low as ₦280 per meter for basic single-mode outdoor cables. Suppliers include Empic Star Global, RapidBTS, and ME Fiber Optic, offering both bulk and individual sales. Local manufacturers like Coleman Wires and Cables provide industrial-grade cables for large-scale projects, including government and telecom infrastructure.

Conclusion

A 12-core drop fiber optic cable in Nigeria is a versatile, high-capacity solution for modern data networks, suitable for both residential and commercial applications. When selecting a cable, consider the mode type (single or multi-mode), installation environment, and supplier reliability to ensure optimal performance and longevity.

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