



Armored Fiber Optic 24-Core Multimode

Article Overview

A 24-core multimode armored fiber optic cable provides high-performance OM4 data transmission with robust mechanical protection for harsh environments.

Key Features

Core and Fiber Type: These cables typically contain 24 color-coded multimode fibers (50/125 um OM4), which support high-speed data transmission over short to medium distances, ideal for LAN, SAN, and data center applications (Enbeam OM4, TiniFiber(R)) . **Armoring and Protection:** Armored cables use corrugated steel tape (CST) or aluminum interlocking armor to protect against mechanical stress, rodent damage, and moisture ingress. Some variants, like the Starlight SWA Uni Tube, include 0.9mm steel wire layers and aramid strength members for tensile strength and durability in direct burial or heavy-duty duct installations . **Sheath and Jacket:** The outer jacket is often LSZH (Low Smoke Zero Halogen) or FireBur LSZH, providing flame resistance, low smoke emission, and environmental protection. Plenum-rated versions are suitable for indoor riser and general-purpose installations . **Construction:** The fibers are housed in jelly-filled or silica gel loose tubes to prevent microbending and maintain optical performance. Strength members like E-glass or aramid yarn provide additional tensile support . **Installation Suitability:** These cables are designed for direct burial, aerial, indoor, outdoor, and industrial applications. They are rugged, lightweight, and easy to install, with some models offering up to seven times the crush protection of unarmored cables . **Performance:** OM4 multimode fibers support high-bandwidth applications, including 10G, 40G, and 100G Ethernet, with low attenuation and high modal bandwidth, making them suitable for modern high-speed networks .

Applications

- o Data Centers and LANs: High-speed backbone and horizontal cabling.
- o Telecom and Broadcast: Reliable signal transmission in harsh environments.
- o Industrial and Outdoor Installations: Direct burial, tunnels, and heavy-duty ducts.
- o Security and DAS Systems: Ruggedized protection for sensitive fiber networks.

Summary

A 24-core multimode armored fiber optic cable combines OM4 high-speed performance with mechanical robustness, rodent resistance, and environmental protection. It is suitable for indoor plenum, outdoor direct burial, and industrial applications, ensuring reliable network operation in demanding conditions .

Ideal for heavy traffic or more challenging mechanical exposure conditions, this cable design consists of



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With a low bending radius and lightweight feature, this cable is suitable for both indoor and

The SWA fibre cable has excellent tensile strength and the layer of 0.9mm steel

HES 48 Core and HES 96 Core fiber optic cables are sold as 2000m reels. Features: OM3 MultiMode

TMT Global 24 Core OM3 Fiber Cable Armored Multimode Indoor Outdoor TMT GLOBAL provides high

The fibre cable core consists of a central gel filled polyester tube, with up to 24 optical fibres contained within. The tube is protected

24-core 250µm multimode OM4 armored plenum fiber cable for indoor micro-distribution. Stainless steel armor and 6mm OD deliver

Avalon 24 Core Multimode OM4 UT Armoured Outdoor Fiber Cable - HDPE Sheath is designed with color coded OM4 optical fibers

24 core OM3 multimode loose tube Optical fibre cable with corrugated steel tape armour LSZH outer jacket. Buy online, Cut to order,

S/Z Core wrapped with polyester tape Inner sheath with UV Stabilised HDPE compound (On request available in LSZH/FR PVC)

Get to know armored optical fiber cable types, applications, specifications, prices, and everything. From the

HES 24 Core Single Tube Steel Armored Fiber Optic Cable, OM4 50/125µm MultiMode. Offers ideal and

TMT GLOBAL Fiber Optic Cable Multimode 24 Core OM2 is designed for high-speed data transmission

For installations where conduit or innerduct are typically installed, CommScope offers premise fiber optic cables inside an

Armored Fiber Armored Fiber Optic Cable, sometimes referred to as MC Fiber Cable or BX Fiber Cable, is

Single Mode Multi-Tube Armoured Fiber Optic Cables Techlogiks armoured loose tube cables are the

Web: <https://www.in-au.co.za>

