

Six-core multimode armored optical fiber



Overview

This category of fiber cables has a loose tube fiber single, interlocking armored and dielectric options available.

Key Takeaways

A six-core multimode armored optical fiber cable is a durable, high-performance cable designed for indoor, outdoor, and industrial applications, supporting high-speed data transmission with enhanced mechanical protection.

Six-core multimode armored optical fiber cables contain six individual fiber cores capable of transmitting data simultaneously. The multimode designation (OM2 or OM3) indicates the fiber's core diameter and bandwidth capacity: OM2 typically supports 10Gbps up to 300 meters, while OM3 can handle higher speeds over longer distances. Armored construction provides mechanical protection against crushing, bending, and environmental hazards, making these cables suitable for harsh conditions.

Construction and Materials

- **Fiber Core:** High-quality multimode fibers (OM2 or OM3) with 50/125 μm core/cladding dimensions.
- **Reinforcement:** Kevlar strands and stainless steel armored tubes enhance tensile strength and pressure resistance.
- **Outer Jacket:** TPU or plenum-rated jackets provide flexibility, wear resistance, and protection against environmental factors.

- **Connectors:** Often integrated LC-type connectors with dust caps and protective aluminum housings for reliable, repeated connections .

Performance

- **Bandwidth:** OM3 fibers support 10Gbps up to 300 meters, suitable for LAN, SAN, CATV, and broadcast applications .
- **Durability:** Armored design ensures resistance to tensile stress, compression, wear, and freezing, making it ideal for indoor, outdoor, aerial, and industrial deployments .
- **Flexibility:** Despite heavy-duty protection, cables maintain pliability for easy installation and routing .

Applications

- **Telecommunications and Data Centers:** High-speed data transmission for LAN, SAN, and DAS networks .
- **Industrial and Harsh Environments:** Protection against mechanical damage, moisture, and temperature extremes .
- **Audio/Video Extenders:** Reliable signal transmission over medium distances with minimal loss .
- **Indoor/Outdoor Installations:** Suitable for plenum, riser, burial, and aerial setups .

Advantages

- Enhanced mechanical protection from armored layers.
- High data transmission rates with multimode fibers.
- Integrated connectors reduce installation complexity and improve reliability.
- Versatile for multiple environments, including industrial and outdoor applications. In summary, a six-core multimode armored optical fiber cable combines high-speed data transmission with robust mechanical protection, making it ideal for demanding networking, industrial, and multimedia applications .

Article Content

TiniFiber® 6 Core 900um Multimode OM3 Armored Plenum

TiniFiber® is a revolutionary designed fiber optic cable that will provide the single best solution for all your fiber optic projects and

Armored Fiber Optic Cables

This category of fiber cables has a loose tube fiber single, interlocking armored and dielectric options available. In addition, we offer

G300 Series

The G300-xxU-6LC is a six-core multi-mode finished fiber cable, which is mainly used with audio and video

best 6 core Fiber Optic Cable Om4

Make sure your network is reinforced with ELV CABLE fiber pigtails, as ours are manufactured of superior

Armored 6 Strand Indoor Plenum OM4 Fiber

Custom Length Product Description Our Steel Armored Fiber Optic Cable features Rodent Resistant Spiral

Armored Fiber Optic Cables

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6 Core Multimode Armored Fiber Optic Cable

These compact 6 Core Multimode Armored Fiber Optic Cable cable lightweight cables are extremely flexible and are quick and easy

1000ft Black 6 Fiber Outdoor Multimode Fiber Optic Cable

Our 6 fiber cable is composed of 6 multimode fibers (62.5 micron core) inside a water blocking Aramid yarn

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® is a revolutionary designed fiber optic cable that will provide the single best solution for all your fiber optic projects and usage.

Armored 6 Strand Indoor Plenum OM4 Fiber

Our Steel Armored Fiber Optic Cable features Rodent Resistant Spiral Steel Armor, 6 strands of OM4

Micro Armor Fiber™ The Original Stainless Steel Armor

Micro Armor Fiber™ The Original Stainless Steel Armor Multimode 6 Fiber 900mm OM3 Plenum Armored Fiber Optic Cable Model

20M/66ft 6 Core OM3 Multimode ST to ST Outdoor

□High-Speed Performance□The OM3 ST to ST Outdoor fiber optic cable is specifically designed for high

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

