

Model without armored fiber optic cable



Overview

Armored vs Non-Armored Optical Cables – Buyer's Guide Compare armored and non-armored optical cables. Learn structure, standards, global LE-Series Gel-Free.

Key Takeaways

Non-armored fiber optic cables are lightweight, flexible, and cost-effective solutions designed for indoor or low-risk environments without metallic protective layers. Overview of Non-Armored Fiber Optic Cables

Non-armored, or unarmored, fiber optic cables consist of optical fibers, a protective buffer coating, strength members such as aramid yarn or FRP rods, and an outer jacket made from materials like PVC, LSZH, or PE, but without any metallic armor layer. This construction makes them lighter, more flexible, and easier to install compared to armored cables, which include steel tape or wire for added protection.

Advantages

- **Lightweight and Flexible:** Easier to handle, pull through conduits, and bend around corners, ideal for indoor routing.
- **Cost-Effective:** Typically 20-30% cheaper upfront than armored cables due to the absence of steel layers.
- **Compact Footprint:** Smaller diameter allows denser packing in ducts and cable trays, useful in data centers and office buildings.

- Code Compliance: Available in OFNR/OFNP/LSZH jackets for fire safety and building standards .

Limitations

- No Rodent Protection: Vulnerable to chewing or bites in exposed outdoor environments .
- Lower Crush Resistance: Susceptible to damage under heavy loads or direct burial .
- Limited Environmental Resistance: Less suitable for harsh outdoor conditions or areas with high mechanical stress .

Typical Applications

Non-armored cables are best suited for indoor or controlled environments where mechanical protection is not critical:

- Commercial and residential buildings
- Enterprise LANs and data centers
- FTTH drop cables
- Institutional interior wiring
- Low-risk indoor installations

Example Models

- AFL LE-Series Gel-Free Single Jacket: Features dry water-absorption technology for easy handling and routing within splice enclosures, suitable for outside plant applications in controlled environments .
- Fujikura Wrapping Tube Cable™ (WTC™) with Spider Web Ribbon™ (SWR™): Available in non-armored versions, offering ultra-high density, gel-free water-blocked cores, and flame-retardant jackets for indoor and covered outdoor pathways .

Installation Considerations

- Ideal for conduit or tray installations where the cable is protected from physical abuse.
- Easier to terminate and splice due to the absence of metallic armor.
- Not recommended for direct burial or areas with high rodent activity unless additional protective measures are used. Non-armored fiber optic cables provide a flexible, cost-efficient solution for indoor and low-risk deployments, while armored cables remain necessary for harsh outdoor or high-risk environments .

Article Content

Non Armored Fiber Optic Cable & Non Armored Cable | OMC Cable

Without the need for heavy armor protection, the Non armored cable is a more budget-friendly option, making it ideal for projects that

Armored vs Non-Armored Fiber Cable: How to Choose | Opelink

It has a lower cost throughout the entire life cycle for long-distance cables, while non armored fiber optic cables have

Fiber Optic Cables Price in Pakistan

Telecommunications: Fiber optic cables are the backbone of modern telecommunications networks, providing high-speed internet,

Non Armored Fiber Optic Cable & Non Armored Cable | OMC Cable

Non armored fiber optic cable offering flexibility, reliable performance, and excellent signal transmission in various applications and

Comparing Armoured vs. Non-Armoured, Indoor vs. Outdoor Fiber Optic ...

Introduction Fiber optic cables are essential for high-speed data transmission, and their construction varies based on their intended

Armored vs. Unarmored Fiber Optic Cables

The key distinction between these cable types lies in the level of physical protection they provide. While both serve the same

Armored Cables Vs Non-Armored Fiber Cable: Do You Need Armor?

Compare armored cables and non-armored fiber cables: protection, costs, installation tips, and a practical checklist to decide

Armored Power Cables for Hazardous & Harsh Environments | Prysmian

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

