Price of Polyethylene Optical Cable Sheathing Material



Overview

Discover LDPE cable sheathing material with high flexibility, low-temperature resistance, and UL94 V-0 flame retardancy for reliable wire & cable applications.

Key Takeaways

The price of polyethylene (PE) optical cable sheathing material varies widely, typically ranging from $1. 50 to $4. 50 per kilogram depending on type, quality, and customization.

Price Overview

Polyethylene optical cable sheathing materials are available in LDPE (Low-Density PE), MDPE (Medium-Density PE), and HDPE (High-Density PE) grades, each with different mechanical properties and environmental resistance. Prices generally depend on: Material density and grade: MDPE and HDPE are more durable and weather-resistant, often costing more than LDPE. Recycled vs virgin material: Recycled PE can reduce costs but may have slightly lower performance characteristics.

Additives and customization: UV stabilizers, flame retardants, anti-static agents, or colorants increase the price. Order volume: Bulk purchases typically reduce per-kilogram cost, while small orders may be more expensive. Typical Price RangesLDPE sheathing: $1.

50–$2. 50 per kg, flexible and suitable for indoor or short-term outdoor use.

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MDP

E sheathing: $2. 00–$3. 50 per kg, environmentally friendly, medium strength, suitable for standard optical cables.

HDP

E sheathing: $3. 00–$4. 50 per kg, high strength, UV-resistant, ideal for long-term outdoor deployment.

Supplier Considerations

When sourcing PE sheathing material: Check certifications: ISO, RoHS, or other quality standards ensure consistent performance. Request samples: Evaluate processing behavior, flexibility, and durability before large orders. Consider integrated suppliers: Companies like Shanghai Gengyun Industrial Co., Ltd. provide raw materials, manufacturing equipment, and technical support for optical fiber and cable production.

Customization options: Discuss specific requirements such as melt flow index, color, or additives to optimize performance and cost-efficiency.

Conclusion

The price of polyethylene optical cable sheathing material is not fixed and depends on material type, quality, additives, and order size. For accurate pricing, it is recommended to contact suppliers directly, request quotes, and consider bulk purchasing to reduce costs while ensuring material meets technical specifications.

Article Content

LDPE Cable Sheathing Material

Discover LDPE cable sheathing material with high flexibility, low-temperature resistance, and UL94 V-0 flame retardancy for reliable wire & cable applications.

Optical Fiber Cable Sheaths

Shop for high-quality fiber cable sheath products from reliable suppliers. Find durable, efficient, and cost-effective solutions for your communication needs.

Optical Cable Sheath Market Research Report 2034

Polyethylene is the dominant material type, commanding 42.8% of the optical cable sheath market in 2025. Its prevalence is due to cost-effectiveness, ease of extrusion processing, moisture resistance,

HDPE Optical Cable Sheath Material | High Strength

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HDPE sheath material for optical cables with high strength, excellent abrasion resistance, and superior durability. Ideal for harsh outdoor environments.

Worldwide Optical Cable Sheath Market 2026

Ethylene prices, which represented 60% to 70% of polyethylene production costs, created significant supply chain uncertainties . Price swings in high-density polyethylene and specialized

Cable | Types, Uses & Benefits | Britannica

Many aerial cables, especially those operating at high voltages, are bare (uninsulated). Cables operating at lower voltages frequently have coverings of

China Fiber Optic Cable Manufacturer Price Guide

This fiber optic cable manufacturer Price guide breaks down the costs of ADSS, Outdoor, and FTTH cables, and explains how to get the best factory-direct rates

24 Core Fiber Optic Cable Price Per Meter with OWIRE

These enhanced features increase material and production costs, directly influencing the 24 core fiber optic cable price per meter. Conversely, tight

Price Of Fiber Optic Cable Testing In Asia Wholesale Suppliers ...

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Hybrid Copper & OF Cables | Copper-Fiber Hybrid Cables | Dual ...

Hybrid copper and optical fiber cables combine the strengths of both technologies. The copper conductors are used for power transmission, while the optical fibers handle high-speed data transfer.

6 Fiber Cable Outer Sheath Materials and How To Choose?

Another common optical cable sheathing material is an anti-rodent material, which is used for optical cables laid in tunnels and underground projects. The mechanism is divided into

How To Choose Fiber Cable Outer Sheath Materials?

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Choosing the appropriate outer sheath material for fiber optic cables is crucial for ensuring the cable''s durability, protection, and performance under specific environmental conditions.

Analysis Of Optical Cable Sheath Materials: All-round

1. PE sheath material PE is the abbreviation of polyethylene, which is a polymer compound formed by the polymerization of ethylene. The black polyethylene

PE Cables

PE may be used as an insulating or sheathing material in some of these cable types. BS EN 50290 Series: The British Standards Institution (BSI) has a series of standards related to the use of

Cable Sheathing Material Guide

PE (polyethylene) is an excellent choice for outdoor cable installations, such as those involving direct burial. When UV stabilised, the

Cable Jacket Material: How to Choose

Cable Jacket Material Comparison Both network cables and fiber optic cables have different cable jackets to choose from. Each type of sheath has different advantages. Below, we will

PE Cables | Polyethylene sheathed | Eland Cables

Polyethylene''s advantages as a cable sheathing material must be balanced by it''s performance in the event of fire. When burned it emits thick smoke and halogen gases and may fail to self-extinguish

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

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