Price of Fiber Optic Cable Outer Sheath



Overview

Optical Fiber Cable Sheaths Shop for high-quality fiber cable sheath products from reliable suppliers. Find durable, efficient, and cost-effective solution.

Key Takeaways

Fiber optic cable outer sheath costs vary widely, typically ranging from $0. 09 to $6 per foot depending on material, fiber count, and cable type.

Pricing Overview

The cost of fiber optic cable materials, including the outer sheath, depends on several factors such as fiber count, sheath material, and application. For wholesale bulk purchases, prices can start as low as $0. 09 per foot, while retail prices for standard cables range from $1 to $6 per foot.

Simple 1-core FTTH drop cables may cost around $0. 13 per foot, whereas high-capacity 288-strand backbone cables can reach $6 per foot or more. Armored or specialized outdoor cables with double jackets and water-blocking features are at the higher end of this range due to enhanced protection and durability.

Outer Sheath Materials

The outer sheath protects the optical fibers from environmental damage, UV radiation, chemical exposure, and mechanical stress. Common materials include: PVC (Polyvinyl Chloride): Low cost, good chemical and weather resistance, widely used for general indoor and outdoor applications.

P

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E (Polyethylene): Excellent low-temperature resistance, UV resistance, and electrical insulation; often used for outdoor and direct burial applications. Variants include MDPE (medium density) and HDPE (high density).

LSZ

H (Low Smoke Zero Halogen): Flame-retardant, produces minimal smoke and no toxic gases, suitable for indoor environments with fire safety requirements. Armored Sheaths: Steel tape or double PE jackets provide mechanical protection for direct burial or harsh outdoor conditions, increasing cost significantly.

Factors Affecting Cost

Fiber Type and Count: Single-mode fibers are generally cheaper per foot than multimode fibers, but higher strand counts increase sheath material requirements and cost. Cable Construction: Armored, plenum-rated, or outdoor-rated cables with specialized sheaths cost more due to additional materials and manufacturing complexity. Application: Direct burial or outdoor cables require more robust sheaths (PE or armored), while indoor riser-rated cables can use simpler PVC or LSZH sheaths.

Environmental Resistance: UV resistance, rodent-proofing, and water-blocking features add to the price of the outer sheath.

Example

A 48-core GYTY53 outdoor armored fiber optic cable features a double PE jacket and steel tape armor, designed for direct burial and long-distance transmission. Its robust outer sheath ensures protection against moisture, mechanical stress, and environmental hazards, making it more expensive than standard indoor cables. In summary, the outer sheath cost is embedded in the overall cable price, and selecting the right material depends on installation environment, mechanical protection needs, and fire safety requirements.

For budgeting, expect $0. 09–$6 per foot, with higher-end armored or outdoor-rated cables at the top of this range.

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Article Content

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.

Fiber Optic Cable Cost Guide 2026 – LatestCost – Real-Time Price

Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and termination. This guide presents ranges in USD and practical price

GYTA Cable Buying Guide: Specs, Pricing & Sourcing Tips

Compare GYTA cable specs (4–288 cores, -40°C to +70°C, APL sheath), bulk pricing ($0.45–$0.59/m), customization options, and key sourcing criteria for 2026 deployments.

24 Cores ADSS Fiber Optic Cable Price & Datasheet

24 Cores ADSS Fiber Optic Cable ADSS optic cable adopts loose tube layer stranded structure, and the loose tube is filled with water blocking compound. Then, two layers of aramid fibers are twisted

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Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire-rated indoor fiber cables.

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DIGITUS OS2 Fibre Optic Cable

Cable sheath: The outer sheath of the fibre optic network cable is made of halogen-free material (LSZH = Low Smoke Zero Halogen) and has a flame-retardant fire behaviour FEATURES: Fiber Optic

12 Cores GYTA53 Fiber Optic Cable Direct Buried Price & Datasheet

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Fiber optic cable GYTA53, 2~432 fibers, central strength member (steel), jelly filled, fiber contained loose tube and PP filler (if necessary) stranded, water blocking jelly, copolymer coated

Best Outdoor Armored Fiber Optic Cable Solutions for Durable ...

The armored outer layer provides resilience against environmental challenges, while the OS2-compatible single-mode fiber ensures reliable long-distance transmission. It is well-suited for

8 Core GYTC8S Figure-8 Fiber Optic Cable Price & Datasheet

This kind of cable is specifically used for self supporting aerial installation. The mental strength member is made up of stranded wires as the supporting part are completed with a

2 Core FTTH Fiber Drop Cable G.657A2 FRP LSZH GJXFH

2 Core FTTH Drop Cable GJXFH SM 9/125 OS2 G657A2 with 2 FRP in Parallel As Strength member LSZH Sheath Butterfly Flat- Figure 8 Cable FTTH indoor cables are used inside

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Fibre Optic Cable | Fibre Cable | RS

Polyolefin Sheath: Made of a jacketing material that combines excellent mechanical performance and superior shrinkage behaviour, making it a versatile option for Fibre Optic Cables. Fibre Optic Cables

Fiber Optic Cable Price Per Foot Guide 2026

This guide outlines typical cost ranges and the main drivers behind pricing to help formulate a budget and estimate expenses. Cost factors include material grade (single-mode vs

PE Sheath Gyxta Fiber Optical Cable Price Per Meter

The loose tubes (may contain some fillers) are stranded around a strength member, and it is completed with an inner sheath, wraped by steel-plastic tape and the cable is completed with an

Dexgreen Fibre Optic Inside/Outside Cable 10m

Dexgreen''s indoor/outdoor cable is designed to withstand harsh outdoor environments, while also being suitable for installation indoors where

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Draka FT Fire Resistant Fibre Optic Armoured

Offered in OM1, OM3 and OM4 multimode and OS2 singlemode, in 4, 8, 12 or 24 core fibre configurations. All feature a corrugated steel tape armour for protection from rodents, a central loose

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

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