

Price of Flame-Retardant Four-Core Optical Cable

Article Overview

Flame-retardant four-core optical cables typically range from \$0.40 to \$1.80 per meter, depending on type, construction, and environment.

Price Overview

The cost of a four-core flame-retardant optical cable varies based on several factors, including fiber type (single-mode OS2 or multimode OM3/OM4), jacket material (LSZH, PVC, armored), installation environment (indoor, outdoor, direct burial), and compliance with fire and flame-retardant standards . Typical pricing from suppliers like OWIRE starts at \$0.40 per meter for basic indoor LSZH cables and can reach \$1.80 per meter for ruggedized outdoor or armored versions designed for harsh conditions . A standard 100-meter reel of single-mode OS2 4-core cable usually costs \$60-\$90, depending on customization and order volume .

Factors Affecting Price

- o Fiber Type: Single-mode OS2 cables for long-distance transmission are generally more expensive than multimode OM3/OM4 cables used for shorter runs .
- o Construction: Armored cables with steel tape or additional strength members provide extra protection and cost more than standard LSZH cables .
- o Fire and Flame Standards: Compliance with IEC 60331-25 (fire resistance) and IEC 60332-2-3 (flame retardancy) ensures safety in critical environments but can increase cost .
- o Environmental Suitability: Outdoor-rated cables with water-blocking gel, UV resistance, and hydrolysis protection are priced higher due to enhanced durability .
- o Bulk Orders: Large-volume purchases often qualify for tiered discounts, reducing the per-meter cost for projects exceeding 1,000 meters .

Applications

These cables are widely used in fire alarm systems, voice evacuation networks, public buildings, tunnels, metro systems, and industrial outdoor installations where maintaining communication during fire emergencies is critical . The combination of flame-retardant LSZH sheaths, central strength members, and loose tube design ensures both safety and mechanical reliability.

Summary

For a flame-retardant four-core optical cable, expect a price range of \$0.40-\$1.80 per meter, with higher costs for armored, outdoor, or single-mode long-distance variants. Bulk orders and supplier-specific discounts can



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further influence the final cost, while compliance with fire and flame-retardant standards ensures safety and reliability in critical installations .

Gyftzy non-metallic flame-retardant optical cables are suitable for a variety of outdoor cabling scenarios. they boast

Buy fire alarm cable 4 core with 1.5mm, 2.5mm, 4mm sizes in stock at low prices from \$0.01 to \$58.0. Available for purchase from 1

Cables standard: Application cable standards: ISO/IEC 11801, IEC 60794 and BS EN 50173-1 . Test standards: IEC 60794-1-21 and

Indoor and outdoor overhead flame retardant four core optical cable gyfxtby G652D self supporting cable. Perfect for sensor

Draka FT Fire Resistant Fibre Optic Unarmoured QFCI OM1 62.5/125 Fire Resistant Armoured Loose Tube Fibre Optic Cable Marine

Flame Retardant Communication Optical Fiber Mgxtsv Mgtsv 4 Core Cable Coal Mine, Find Details and Price about Mining Optical

Indoor and outdoor, flame retardant, LSZH or PVC, loose tube, Armored SWA (Steel wires Armor), SWB (Steel wires Braid) or CST

Find your fire-resistant optical cable easily amongst the 12 products from the leading brands (LAPP, ZTT, CABLESCOM, ...) on

QFCI OM3 50/125 Fire Resistant Armoured Loose Tube Fibre Optic Cable Marine DNV-GL & ABS Approved QFCI OM4 50/125 Fire

Flame Retardant Optical Fiber Cable Market size was valued at USD 1.5 billion in 2025 & is estimated to reach USD

Discover 4 core fiber optic cables for reliable fiber networking. Ideal for FTTH, outdoor use with CE/ROHS certification and

Engineered for critical safety, this fire-resistant optic cable provides reliable data transmission in high-risk environments.



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

FireTuf OFC-LT-CST fibre optic cables are manufactured by Prysmian Draka. Available in OM1, OM3 and OM4 multimode and OS2

8, 12 & 24 Core Fibre Optic Cable OM1, OM3, OM4 multimode and OS2 singlemode, Loose Tube,

THE APAR ADVANTAGE APAR's Fire Resistant (Fire Survival) Fibre Optic cables offers excellent protection in the event of fire

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