

Price of remote monitoring optical cable for Vietnam s backbone network

Article Overview

The price of remote monitoring optical cables in Vietnam varies widely depending on fiber type, armoring, and supplier, typically ranging from \$1 to \$5 per meter for standard backbone-grade cables, with specialized monitoring features potentially increasing costs.

Market Overview

Vietnam's fiber optic infrastructure is highly advanced, supporting backbone networks with high-speed, low-latency connectivity for telecom operators like Viettel, VNPT, and FPT Telecom . Backbone cables are often armored or loose-tube designs to withstand Vietnam's humid, tropical climate, rodents, and extreme weather, which is critical for maintaining network uptime . These cables can carry multiple fibers (up to 12 or more in flat ribbon configurations) and support high data rates exceeding 10 Gbps .

Pricing Factors

- o Cable Type: Single-mode fiber (SMF) is standard for backbone networks due to low attenuation and long-distance performance. Multi-mode fiber (MMF) is less common for backbone but may be used in shorter segments .
- o Armoring and Protection: Armored cables with metal or corrugated steel layers cost more than non-armored variants due to enhanced durability .
- o Remote Monitoring Features: Cables with integrated monitoring sensors (for temperature, strain, or fault detection) add to the base cost, often increasing prices by 20-50% depending on sophistication.
- o Supplier and Volume: Vietnam has over 2,400 verified optical cable suppliers, including PACIFIC LINKS and FUJIKURA FIBER OPTICS VIETNAM, offering competitive pricing based on order volume and customization .

Estimated Price Range

- o Standard backbone optical cable: \$1-\$3 per meter for bulk orders of armored single-mode fiber .
- o Cables with remote monitoring or specialized features: \$3-\$5 per meter, depending on sensor integration and environmental specifications .
- o Additional costs: Shipping, installation, and testing can add 10-20% to the total project cost.

Procurement Considerations

- o Local sourcing is advantageous due to Vietnam's robust supplier network and reduced import costs .
- o Environmental suitability: Choose loose-tube or armored cables for coastal or rural deployments to ensure longevity .

Price of remote monitoring optical cable for Vietnam's backbone network

o Future-proofing: Consider fiber counts and monitoring capabilities that support 5G backhaul and smart grid applications . In summary, while exact prices vary by supplier and cable specifications, Vietnam's backbone-grade optical cables with remote monitoring typically cost between \$1 and \$5 per meter, with higher-end options including advanced monitoring and environmental protection. Engaging local suppliers and specifying environmental and monitoring requirements will help optimize cost and performance.

Wire and Cable Market size was USD 245.44 billion in 2026 and is projected to reach USD 315.78 billion by 2031,

From 2028 - 2030: Deploy and put into operation at least 6 new undersea fiber optic cable routes, bringing the total

This report provides a comprehensive view of the optical fiber cables industry in Vietnam, tracking demand, supply,

6Wresearch actively monitors the Vietnam Optical Fiber Cables Market and publishes its comprehensive annual report, highlighting

Explore detailed insights into fiber optic cable pricing, including cost factors, quality considerations, and long-term value benefits for

A Vietnam News report, published late last week, has suggested that the country's international fibre optic cable

Vietnam's optical fiber market is expected to reach USD 225 million by 2032, spurred by the booming demand for high-speed internet

The Vietnam Fiber Optics Cable Market is experiencing accelerated growth due to a convergence of technological

Telecommunications companies in Vietnam are aggressively pushing the envelope by expanding their fiber optic networks to cater to

Viet Nam's international fibre optic cable system development strategy plans that by 2030, at least ten new undersea

Cooperation Between LINK-PP and Vietnam Telecom in 2025 boosts Vietnam's telecom with advanced optical

Price of remote monitoring optical cable for Vietnam s backbone network

Global Fiber Optic Cable Market Size The global fiber optic cable market size was valued at USD 13.84 billion in 2025

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts

Market Value: The guide includes an overview of Vietnam's fiber optic cables industry, an overview of the import market, and a brief

Comprehensive guide to fiber optic cable cost, including material pricing, installation rates,

The average export price for optical fibers, bundles and cables stood at \$22,002 per ton in 2024, with an increase of

Web: <https://www.supremeacademicresearch.co.za>

