

Why have optical fiber cable prices increased

Article Overview

Optical fiber cable prices are rising due to a combination of supply constraints, higher raw material costs, and surging demand from AI data centers, broadband expansion, and new applications.

Key Drivers of Price Increases

1. **Raw Material Costs:** The primary input for fiber optic cables is the preform, made from high-purity silica. Prices for preforms have surged due to increased demand for ultra-low-loss fibers (G.652D, G.657A2) and higher energy and chemical processing costs, which are capital-intensive and concentrated among a few suppliers, amplifying price fluctuations downstream. Other critical inputs like silicon tetrachloride and helium have also risen sharply, further increasing production costs.

2. **Supply Chain Constraints:** Global supply chains are under pressure from freight volatility, regional trade policies, and localized production shifts. Limited preform availability has tightened supply, particularly in regions like China, where prices have recently exceeded European levels for the first time in years. High fiber count cables (144F, 288F, 432F) and specialized fibers like G.654E are especially affected due to their complex manufacturing processes.

3. **Surging Demand:** Demand is accelerating across multiple sectors. AI and hyperscale data centers require high fiber intensity per installation, driving up consumption of high-performance fibers. FTTH (fiber-to-the-home) rollouts, national broadband projects, 5G transport networks, and UAV-related systems are also pulling from the same fiber pool, creating structural demand that outpaces supply. This synchronized demand across applications has created a sustained upward pressure on prices.

4. **Regional and Market Dynamics:** Export flows into North America and large-scale data center deployments have tightened fiber availability in other regions, contributing to global price increases. High-performance assemblies, such as bend-insensitive jumper cables, are experiencing faster price growth due to their higher fiber content and manufacturing complexity.

Impact on the Market

The combination of rising input costs, constrained supply, and strong demand has led to rapid price increases. For example, G.652D fiber prices in China nearly tripled from under 20 yuan per core-kilometer in November 2025 to over 50 yuan by early 2026, while G.654E fiber climbed from 130-140 yuan to 170-260 yuan per core-kilometer. These increases affect not only cable manufacturers but also distributors, telecom contractors, and data center integrators, requiring updated procurement strategies and budget planning.

Conclusion

Optical fiber cable prices are rising due to a structural imbalance between supply and demand, driven by higher raw material costs, limited preform availability, and surging demand from AI, broadband, and other high-fiber applications. This trend is expected to continue until new production capacity comes online or



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demand growth stabilizes, making strategic procurement and phased ordering essential for buyers.

Why single-mode fiber prices jumped in 2026: AI data-center buildouts, spool demand, and tight capacity. Learn how to

Optical Fiber prices rose in 2026 on strong demand from AI data centers and 5G. Tight preform capacity, higher raw

A worldwide shortage of fiber-optic cable has driven up prices and lengthened lead times, endangering companies"

The global fiber optic industry is entering a new pricing cycle. Over the past several months, upstream material costs and supply

Skyrocketing fiber optic prices are shaking the industry. Discover the 2026 market drivers, supply chain shifts, and how

This executive briefing on trade (EBOT) will examine the relationship between fiber optic cable input costs, specifically silica

Explore optical fiber demand trends, supply chain risks, infrastructure investments, and strategic industry

Fiber optic cables are essential components in today's broadband, FTTx, and data center

The dramatic surge in fiber optic cable prices from late 2025 into early 2026 is primarily driven by the explosive and

FTTR (Fiber-to-the-Room): The global push for fiber-to-the-room in homes and enterprises

Bare Fiber Market Analysis: Current State, Price Surge Drivers, and Future Outlook The optical fiber industry is

If you're procuring fiber optics in 2023/2024, you've felt the sting. The price of bare fiber--the fundamental glass strand

Track the latest fiber optic cable price changes in 2026, including market updates from

The number dominating every procurement manager's spreadsheet in February 2026 is

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While raw fiber prices are clearly at a relatively high level, the final pricing of finished products such as fiber optic

Compared to copper network cables, optical cables have advantages of faster transmission

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