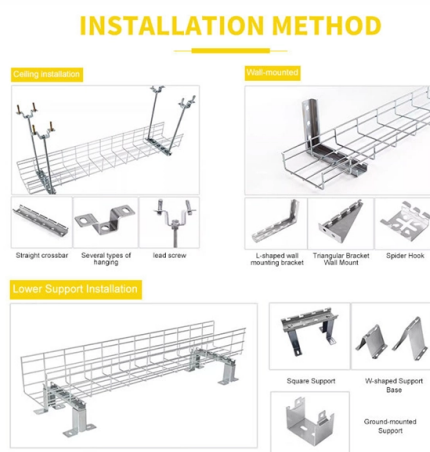


Analysis of Optical Fiber and Cable Price Trends



Overview

Discover how AI growth, supply and demand shifts, and more are influencing the optical fibre and cable industry with CRU Group.

Key Takeaways

Optical fiber and cable prices are trending upward due to growing demand from 5G, FTTH, and data center expansion, with market growth projected at 8-10% CAGR over the next decade. Market Growth and Price Drivers

The global fiber optics market is projected to grow from USD 9.7 billion in 2025 to USD 24.1 billion by 2035, reflecting a CAGR of 9.5%. This growth is driven by high-speed internet demand, 5G rollout, smart city projects, and IoT adoption, which increase the need for low-latency, high-bandwidth connectivity (Future Market Insights) . Similarly, the fiber optic cable market is expected to expand from USD 12.82 billion in 2025 to USD 22.74 billion by 2031, at a CAGR of 9.84%, supported by backbone upgrades, cloud migration, and rural broadband initiatives (Mordor Intelligence) .

Price Trends and Influencing Factors

Fiber optic cable prices are influenced by several factors:

- Raw material costs: Glass preform prices have gradually declined, improving project economics, while fluctuations in helium and other specialty materials can temporarily affect costs (Mordor Intelligence) .
- Technological advancements: Innovations in single-mode and multi-mode fibers, ribbon cables, and armored designs enhance performance and reduce installation costs, indirectly stabilizing prices (Data Bridge Market Research) .
- Infrastructure demand: Rapid deployment of FTTH, 5G networks, and hyperscale data centers increases demand for high-capacity cables, putting upward pressure on prices (Data Insights Market) .
- Regional dynamics: North America dominates with 35–38% revenue share due to strong cloud adoption and 5G rollout, while Asia-Pacific is the fastest-growing region, projected at a 12% CAGR, driven by large-scale 5G and submarine cable investments (Data Bridge Market Research) .

Market Segmentation Impact

- Cable type: Armored cables led with 34.11% revenue share in 2025, while ribbon and micro-cables are growing at 10–11% CAGR, reflecting higher demand for specialized applications (Mordor Intelligence) .
- Fiber mode: Single-mode fiber dominates due to superior long-distance transmission and minimal signal loss, which supports premium pricing, whereas multi-mode and few-mode fibers are expanding in niche applications (Data Bridge Market Research) .

Price Outlook

According to CRU Group, bare optical fiber prices are closely monitored across regional markets, reflecting supply-demand imbalances, geopolitical factors, and civil-works costs. While short-term fluctuations may occur due to permitting delays or material price swings, the long-term trend indicates steady price growth aligned with market expansion and technological adoption (CRU Group) .

Conclusion

Overall, optical fiber and cable prices are rising moderately, driven by global digital infrastructure expansion, 5G deployment, and cloud computing growth. Technological improvements and declining raw material costs partially offset price increases, but high demand for high-capacity, low-latency networks ensures that prices remain on an upward trajectory over the next decade.

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