Fiber Optic Cable Industry Network



Overview

Since 1990, when optical-amplification systems became commercially available, the telecommunications industry has laid a vast network of intercity and transoceanic fiber communication lines.

Key Takeaways

The fiber optic cable industry is rapidly expanding, driven by 5G deployment, data center growth, and smart infrastructure, with major players like Corning, Prysmian, and AFL leading global production.

Market Overview

The global fiber optic cable market was valued at approximately USD 13 billion in 2024 and is projected to grow at a CAGR of 10. 4%, reaching around USD 34. 5 billion by 2034 due to increasing broadband penetration, 5G rollout, and data center expansion.

Another estimate places the market at USD 13. 92 billion, growing at 10. 46% annually, highlighting strong demand for high-speed connectivity.

The fiber optics market, including cables and related components, is expected to reach USD 17. 95 billion by 2033, with a CAGR of 6. 6% from 2026 to 2033.

Key Drivers5



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G Networks: The rollout of 5G requires high-capacity, low-latency fiber for backhaul and small cell connectivity, driving demand for single-mode and high-density cables. Data Centers: Hyperscale and enterprise data centers are expanding rapidly, increasing the need for multi-mode and ultra-low-latency fiber solutions. Smart Infrastructure & IoT: Smart cities, smart grids, and industrial IoT applications rely on fiber for reliable, high-speed communication.

Broadband Expansion: Government programs and rural broadband initiatives are accelerating fiber-to-the-home (FTTH) deployments. Sustainability: Fiber is favored over copper for its lower carbon footprint and energy efficiency.

Market Segmentation

By Cable Type: Armored cables led with 34. 11% revenue share in 2025, while ribbon designs are growing at a 10. 58% CAGR.

By Fiber Mode: Single-mode fiber dominates with 72. 38% of the market, while multi-core and few-mode fibers are growing at 10. 21% CAGR.

By Installation: Underground and buried links captured 46. 19% of revenue, with submarine routes projected to grow fastest at 10. 89% CAGR.

By End-

User: Telecommunications accounts for 60. 23% of revenue, while data centers show the highest growth at 10. 57% CAGR.

By Geography: Asia Pacific leads with 35. 84% of revenue, and the Middle East is the fastest-growing region at 10. 91% CAGR.

Leading Manufacturers

Corning Inc.: Global leader with 10. 4% market share, pioneering low-loss optical fiber and investing heavily in R&D for next-generation networks. Prysmian Group: Offers high-capacity long-distance networks, including submarine and terrestrial fiber infrastructure.

AF

L: Provides fiber optic cables, connectors, and test equipment for telecom and industrial applications. Superior Essex: Supplies domestically manufactured fiber for government projects compliant with Build America, Buy America standards. Other notable companies include Crown Fiber Optics, Fujikura, Sumitomo Electric, and Hengtong Group, collectively shaping global industry trends.

Emerging TrendsHigh-Density & Ultra-Low-Latency Cables: Driven by data center and 5G requirements. Smart City Integration: Fiber networks support IoT, traffic management, energy distribution, and public safety. Medical Applications: Fiber optics are increasingly used in diagnostic instruments and healthcare infrastructure.

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Sustainability & Efficiency: Focus on low-carbon, energy-efficient fiber solutions.

Conclusion

The fiber optic cable industry is experiencing robust growth, fueled by technological advancements, 5G deployment, and digital infrastructure expansion. With major manufacturers innovating in high-capacity, low-latency, and sustainable fiber solutions, the industry is poised to support the global demand for high-speed, reliable connectivity across telecommunications, data centers, smart cities, and industrial applications.

Article Content

Fiber Optic Cable Market Size, Forecast Report [2026-2035]

Smart city initiatives, industrial automation networks, and edge computing deployments further strengthen Fiber Optic Cable Market Outlook, as fiber infrastructure remains the preferred

Fiber Optic Cable Market Size, Forecasts Report 2026-2035

Multimode fiber cables are extensively deployed in data centers, enterprise networks, industrial facilities, and campus-area networks, where transmission distances are relatively short and installation costs

Fiber Optic Cable Market Size

Top Companies in Fiber Optic Cable MarketConsolidated Market with Strong Regional PlayersInnovation and Adaptability Drive Market SuccessThe optical fibre market exhibits a mix of global conglomerates and specialized regional manufacturers, with the global players holding significant fiber optic market share through their extensive distribution networks and technological capabilities. Market consolidation is primarily driven by larger companies acquiring smaller, specialized manufac...See more on mordorintelligence Wikipedia

Fiber-optic communication - Wikipedia

Since 1990, when optical-amplification systems became commercially available, the telecommunications industry has laid a vast network of intercity and transoceanic fiber communication lines.

Fiber Optic Cable Industry Statistics | Verified 2026 Data

Our team aggregates data from peer-reviewed studies, official statistics, industry databases and recognised institutions. Only sources with clear methodology and sample information

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Fiber optic cable Market Size, Share & Trends, 2034

The growth of the global fiber optic cable market is driven by the rapid expansion of telecommunication networks, increasing demand for high-speed internet, and the rising adoption of

fiber optics cable Competitive Strategies: Trends and Forecasts 2026

The fiber optics cable market is booming, driven by 5G, data centers, and high-speed internet demand. Explore market size, growth trends, key players (Prysmian, Corning, Fujikura), and

Fiber Optics Market Size & Share Report, 2026-2033

The fiber optics market is moderately concentrated, with established cable manufacturers, telecom infrastructure providers, and optical technology companies competing across broadband, data

Fiber Optic Connectivity Market Size, Industry Share, Forecast, 2034

The global fiber optic connectivity market to reach USD 15.09 billion by 2034, expanding at a 16.64% CAGR during the forecast period 2026-2034.

Fiber Optic Cable Market Size & Share Growth Analysis 2035

The increasing prominence of 5G technology and the consequent need for robust optical fiber networks for facilitating optimal network capacity utilization as well as seamless transmission of

RLH Industries, Inc. | Fiber Optic Link

RLH Industries, Inc. designs, engineers, manufactures, and installs fiber optic equipment, enclosures, cable, and complete solutions for the

Global IT Products & Network Solutions Provider | Black Box

Black Box provides cutting-edge IT solutions and technology products to businesses worldwide, ensuring innovative and reliable services for global digital transformation.

Fiber Optic Equipment & Broadband Materials | Millennium

Millennium supplies fiber optic cable, OSP materials, and equipment rental for broadband network builders. 20+ U.S. locations. Talk to a fiber build expert.

Sumitomo Electric Lightwave

Fiber Focus explores the technology, tools, and techniques behind modern fiber optic networks. From product innovations to practical insights for data center and on-prem environments,

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Optical networks

An optical transport network is a high-speed communication system that sends light signals over fiber-optic cables to move large amounts of data across long distances.

Jonard Tools | World''s Best Tool Warranty

It includes a rugged backpack and a variety of tools for multiple applications such as stripping, ringing, cutting, cleaning, and preparation of fiber optic cable. This tool kit is ideal for any fiber optic technician.

Lightera Optical Fiber & Connectivity Solutions

Industrial Networks Rugged, durable, and reliable optical fiber systems for digital manufacturing, automation, energy monitoring and protection and Industrial

Structured Cabling Solutions

ICC is a structured cabling solutions manufacturer of copper & fiber optic connectivity products for commercial & residential applications.

Distributed Fiber Optic Sensing | OptaSense

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