

Fiber Optics Market by Fiber Type (Glass, Plastic), Cable Type (Single-mode, Multi-mode), Deployment (Underground, Underwater, Aerial), Application (Communication, and non-communication) and Region – Global Forecast to 2029

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Abstracts

The fiber optics market is expected to grow from USD 3.2 billion in 2024 to USD 6.8 billion by 2029, at a CAGR of 16.4% during the forecast period.

Rising market for fiber optics due to their high performance and reliability. Fiber optics technology was invented to replace copper cables. As copper cables are heavy and bulky, they are difficult to manage physically. Furthermore, electromagnetic interference (EMI) limits copper's performance and reliability because of the nature of electrical signals. In optical communications, fiber optics and shielded end casings are used, which help provide immunity to electromagnetic and radio-frequency interference.

“Plastic fiber optics is expected to have the second largest market during the forecast period.”

Plastic optical fibers degrade or become yellowish over time and cannot withstand harsh environments. These fibers can only transmit a narrow visible light spectrum from 400–700 nm. Due to this, plastic optical fibers are preferred more for decorative and illumination applications such as trim lighting, backlighting, and lighting for pools, museums, and galleries. These optical fibers provide high vibration resistance and flexibility and are highly suitable for industrial and automotive lighting.

“Multi-mode fiber optics is expected to grow with the second largest market during the forecast period.”

Multi-mode fiber optics is expected to have second largest market growth during the forecast period. The high dispersion and attenuation rate associated with this type of fiber, the quality of the signal is reduced over long distances. The wavelengths of multi-mode fibers are in the range of 850 nm to 1300 nm. In a multi-mode fiber, the core-to-cladding diameter ratio is 50:125 μ m and 62.5:125 μ m. Multi-mode fibers are typically used for short-distance data and audio/video applications in LANs.

“North America is the second largest market during the forecast period.”

The fiber optics market in North America is expected to have at a significant market share during the forecast period. In North America, the increasing number of datacenters is driving the fiber optics market growth. Optical fiber helps to interconnect two or more data centers that are located thousands of kilometers away from each other. These optical fibers can transmit large sets of data over long distances, with higher transmission rates and lower latency.

Breakdown of primaries

In determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the fiber optics space. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 45%, Tier 2 – 20%, and Tier 3 – 35%

By Designation: C-level Executives – 15%, Directors – 30%, and Others – 55%

By Region: North America – 30%, Europe – 15%, Asia Pacific – 45%, and RoW – 10%

The report profiles key players in the fiber optics market with their respective market ranking analysis. Prominent players profiled in this report are include Corning Incorporated (US), Prysmian Group (Italy), Sumitomo Electric Industries, Ltd. (Japan), Yangtze Optical Fibre and Cable Joint Stock Limited Company (China), and Fujikura Ltd. (Japan). Apart from these, LEONI (Germany), LS Cable & System Ltd. (South Korea), Hengtong Group Co., Ltd. (China), Furukawa Electric Co. Ltd. (Japan), Optical Cable Corporation (US), Hitachi Cable America Inc. (US), Finolex Cables Ltd. (India),

Sterlite Technologies Ltd. (India), and FiberHome Telecommunication Technologies Co. Ltd. (China), are among a few emerging companies in the fiber optics market.

Reasons to Buy This Report

This research report categorizes the fiber optics market based on fiber type, cable type, deployment, application and region. The report describes the major drivers, restraints, challenges, and opportunities about the fiber optics market and forecasts the same till 2029. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the fiber optics ecosystem.

The report will provide the following insights :

Analysis of major drivers (Increasing penetration of internet), restraints (Prone to physical damage and transmission), opportunities (Surging deployment of 5G communication networks), and challenges (Challenges while installation of fiber optic networks in hard-to-reach terrain and high cost of installation).

Product development /Innovation: Detailed insights on growing technologies, R&D activities, and new product and service launches in the fiber optics market.

Market Development: The report provides comprehensive information about adjacent markets and analyses the fiber optics market across various regions.

Market Diversification: Detailed information about major offerings, regions, recent developments, and investments in the market.

Competitive Assessment: Exhaustive assessment of market share, growth strategies, and services, offering of leading players Corning Incorporated (US), Sumitomo Electric Industries, Ltd. (Japan), Prysmian Group (Italy), YOFC (China), and Fujikura Ltd. (Japan) among others in the fiber optics market.

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