

Global Communication Optical Fiber Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G96874C3658AEN.html>

Date: January 2026

Pages: 155

Price: US\$ 4,480.00 (Single User License)

ID: G96874C3658AEN

Abstracts

The global Communication Optical Fiber market size is expected to reach \$ 13603 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Communication optical fiber is a high-purity glass or polymer optical waveguide used to transmit optical signals for telecommunication, data transmission, and networking applications, enabling high-speed, long-distance, and low-loss communication across internet backbones, data centers, enterprise networks, and consumer broadband systems; it includes single-mode and multimode fibers designed to support various wavelengths, bandwidth levels, and deployment environments.

The communication optical fiber industry chain begins upstream with high-purity silica raw materials, dopants such as germanium and fluorine, preform manufacturing technologies (MCVD, OVD, VAD), UV-curable coatings, jacketing polymers, and steel/armoring materials; midstream manufacturers produce optical preforms, draw fiber, apply primary coatings, perform attenuation and dispersion testing, and assemble fibers into indoor, outdoor, armored, or submarine cable structures; downstream participants include telecom operators, cloud data centers, enterprise networks, FTTH installers, submarine cable integrators, and OEM equipment providers who deploy fiber in metro, backbone, access, and inter-data-center networks, supported by cabling contractors and distributors.

Ongoing and planned global projects include large-scale expansions of single-mode fiber capacity in China, the U.S., and Europe driven by FTTH rollout, 5G transport deployment, and national broadband initiatives; leading manufacturers are building new preform plants, adding fiber drawing towers, and expanding G.654 ultra-low-loss fiber production for long-haul and submarine systems; telecom operators are constructing nationwide optical backbone upgrades, metro DWDM expansions, and cross-border fiber corridors; data center operators are investing in high-bandwidth DCI routes, while

governments in emerging markets fund digital connectivity programs requiring millions of kilometers of communication fiber.

2025 Global Market Sales Volume is 38,800 million meters, the Average Global Market Price is 0.24 USD per meter, and the Market Average Gross Profit Margin is 30%.

The communication optical fiber market continues to expand as global data consumption rises sharply due to cloud computing, online video, AI workloads, and digital transformation across industries. Single-mode fiber dominates the market because of its suitability for long-distance, high-bandwidth communication and its widespread use in FTTH, backbone, and 5G transport networks.

Asia-Pacific leads global demand as China and India deploy massive broadband and 5G infrastructures, while North America and Europe continue strong adoption driven by data center growth and network upgrades. Submarine fiber investment is accelerating due to increasing international data flows and the need for redundant global connectivity routes.

Opportunities include ultra-low-loss long-haul fibers, bend-insensitive fibers for dense urban deployment, and new fiber types optimized for coherent 400G-800G systems.

Risks include telecom spending cycles, price erosion from intense competition, and geopolitical constraints affecting submarine cable routes. Large manufacturers benefit from vertical integration of preform-to-cable production, while new entrants face high capital barriers.

Trends point toward miniaturized indoor cables, higher fiber-count cable designs, hollow-core fiber research, and expanded use of AI-driven optical network optimization.

Overall, communication optical fiber remains a foundational technology of global connectivity, and demand is expected to remain strong well into the next decade.

This report studies the global Communication Optical Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Communication Optical Fiber and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Communication Optical Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Communication Optical Fiber total production and demand, 2021-2032, (K Meter)

Global Communication Optical Fiber total production value, 2021-2032, (USD Million)

Global Communication Optical Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Communication Optical Fiber consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Communication Optical Fiber domestic production, consumption, key domestic manufacturers and share

Global Communication Optical Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Communication Optical Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Communication Optical Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Communication Optical Fiber market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Furukawa, Fujikura, Corning, Asahi Kasei, AGC, Toray Group, Taihan, Nanoptics, SCHOTT, Mitsubishi Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Communication Optical Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Communication Optical Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Communication Optical Fiber Market, Segmentation by Type:

Glass Optical Fiber

Plastic Optical Fiber

Global Communication Optical Fiber Market, Segmentation by Fiber Structure:

Single-mode Optical Fiber

Multi-mode Optical Fiber

Global Communication Optical Fiber Market, Segmentation by Outer Diameter:

0.25?0.5 mm Micro POF

1.0 mm Standard POF

2.2?3.0 mm Industrial POF

Global Communication Optical Fiber Market, Segmentation by Application:

Long Distance Communication

Medium Distance Communication

Short Distance Communication

Companies Profiled:

Furukawa

Fujikura

Corning

Asahi Kasei

AGC

Toray Group

Taihan

Nanoptics

SCHOTT

Mitsubishi Chemical

Jiangxi Daishing

Jiangsu TX

Jiangsu Etern

Hengtong

Futong

Zhongtian Technology Advanced Materials

Yangtze Optical Fibre and Cable Joint Stock Limited Company

Key Questions Answered:

1. How big is the global Communication Optical Fiber market?
2. What is the demand of the global Communication Optical Fiber market?
3. What is the year over year growth of the global Communication Optical Fiber market?
4. What is the production and production value of the global Communication Optical Fiber market?

5. Who are the key producers in the global Communication Optical Fiber market?
6. What are the growth factors driving the market demand?

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