

Global Small Outer Diameter Optical Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Small Outer Diameter Optical Fiber market size is expected to reach \$ 2793 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Small outer diameter optical fiber is a type of specialty fiber designed to significantly reduce the overall outer diameter—typically from the standard 250 μ m down to 200 μ m or less—by decreasing the thickness of the cladding and coating layers while maintaining the standard core diameter. The upstream segment of the industry chain primarily involves raw materials for optical fiber preforms (such as high-purity quartz sand, silicon tetrachloride [SiCl₄], and germanium tetrachloride [GeCl₄]) as well as UV-curable coating resins, coloring inks, and precision fiber-drawing equipment; the preparation of high-purity preforms and the use of low-shrinkage coating materials are critical factors determining the fiber's performance. The midstream segment focuses on manufacturing, utilizing processes such as preform drawing, ultra-thin coating, in-line curing, coloring, and testing to produce single-mode, multi-mode, and bend-insensitive fibers with outer diameters of 200 μ m, 180 μ m, or smaller, which are subsequently processed into high-density optical cables. The downstream segment sees widespread application in areas such as micro-optical cables and compact optical components. In 2025, the global sales volume of small outer diameter optical fiber is projected to reach 230 million fiber-kilometers, with a production capacity of approximately 320 million fiber-kilometers; the average selling price is estimated at \$7.06 per fiber-kilometer, with an average gross margin of 35%–45%.

The global development of digital infrastructure, the upgrading of broadband networks, and the growth of the artificial intelligence industry continue to drive the expansion of the optical communication market. Countries are increasingly investing in gigabit optical

networks, data centers, next-generation communication infrastructure, and computing power networks, creating steady demand for small-diameter optical fibers. Meanwhile, network operators are continuously deploying ultra-high-fiber-count cables, further increasing the penetration of small-diameter optical fibers across backbone networks, metropolitan area networks, and data centers.

This report studies the global Small Outer Diameter Optical Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Small Outer Diameter 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 Small Outer Diameter Optical Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Small Outer Diameter Optical Fiber total production and demand, 2021-2032, (M Fiber-km)

Global Small Outer Diameter Optical Fiber total production value, 2021-2032, (USD Million)

Global Small Outer Diameter Optical Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global Small Outer Diameter Optical Fiber consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

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

Global Small Outer Diameter Optical Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global Small Outer Diameter Optical Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global Small Outer Diameter Optical Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global Small Outer Diameter 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 YOFC, Corning, Sumitomo Electric, Fujikura, Furukawa Electric, Prysmian Group, Nexans, STL (Sterlite Technologies), Hengtong Optic-Electric, TKH Group, 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 Small Outer Diameter Optical Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Fiber-km) and average price (US\$/Fiber-km) 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 Small Outer Diameter Optical Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Small Outer Diameter Optical Fiber Market, Segmentation by Type:

Outer Diameter 200 ?m

Outer Diameter 165 ?m

Outer Diameter 100 ?m

Global Small Outer Diameter Optical Fiber Market, Segmentation by Transmission Type:

SMF Small Outer Diameter Fiber

MMF Small Outer Diameter Fiber

Global Small Outer Diameter Optical Fiber Market, Segmentation by Cladding Diameter:

125?m

80?m

60?m

43?m

Global Small Outer Diameter Optical Fiber Market, Segmentation by Application:

Micro-Optical Cables

Small-Sized Optical Components

Others

Companies Profiled:

YOFC

Corning

Sumitomo Electric

Fujikura

Furukawa Electric

Prysmian Group

Nexans

STL (Sterlite Technologies)

Hengtong Optic-Electric

TKH Group

FiberHome Telecommunication

Hongan Group

Wuhan Guangxin Optoelectronics

F-tone Networks

Key Questions Answered:

1. How big is the global Small Outer Diameter Optical Fiber market?
2. What is the demand of the global Small Outer Diameter Optical Fiber market?
3. What is the year over year growth of the global Small Outer Diameter Optical Fiber market?
4. What is the production and production value of the global Small Outer Diameter Optical Fiber market?
5. Who are the key producers in the global Small Outer Diameter Optical Fiber market?
6. What are the growth factors driving the market demand?

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