

Global Small Outer Diameter Optical Fiber Market Growth 2026-2032

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Abstracts

The global Small Outer Diameter Optical Fiber market size is predicted to grow from US\$ 1588 million in 2025 to US\$ 2726 million in 2032; it is expected to grow at a CAGR of 8.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Small Outer Diameter Optical Fiber Industry Forecast" looks at past sales and reviews total world Small Outer Diameter Optical Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected Small Outer Diameter Optical Fiber sales for 2026 through 2032. With Small Outer Diameter Optical Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Small Outer Diameter Optical Fiber industry.

This Insight Report provides a comprehensive analysis of the global Small Outer Diameter Optical Fiber landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Small Outer Diameter Optical Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Small Outer Diameter Optical Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Small Outer Diameter Optical Fiber and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Small Outer Diameter Optical Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of Small Outer Diameter Optical Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Outer Diameter 200 ?m

Outer Diameter 165 ?m

Outer Diameter 100 ?m

Segmentation by Transmission Type:

SMF Small Outer Diameter Fiber

MMF Small Outer Diameter Fiber

Segmentation by Cladding Diameter:

125?m

80?m

60?m

43?m

Segmentation by Application:

Micro-Optical Cables

Small-Sized Optical Components

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Small Outer Diameter Optical Fiber market?

What factors are driving Small Outer Diameter Optical Fiber market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Small Outer Diameter Optical Fiber market opportunities vary by end market size?

How does Small Outer Diameter Optical Fiber break out by Type, by Application?

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