

# Global G.652D Single Mode Fiber Market Growth 2026-2032

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## Abstracts

The global G.652D Single Mode Fiber market size is predicted to grow from US\$ 1725 million in 2025 to US\$ 3046 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

G.652D single mode fiber refers to a type of low-water-peak, non-dispersion-shifted single-mode fiber that complies with the ITU-T G.652.D standard set by the International Telecommunication Union. By controlling the refractive index profile of the core and cladding, this fiber ensures that optical signals propagate primarily in a single mode. Characterized by low attenuation, low dispersion, a wide transmission window, and excellent compatibility, it is currently the most widely used foundational single-mode fiber in global communication networks. In 2025, global sales volume for G.652D single mode fiber reached 608 million fiber-kilometers, with a production capacity of approximately 800 million fiber-kilometers; the average selling price was \$2.90 per fiber-kilometer, and the average gross profit margin ranged from 25% to 30%.

G.652D single mode fiber is typically manufactured using high-purity silica glass (SiO<sub>2</sub>) as the primary material and consists of a core, cladding, and coating. The core is usually doped with materials such as germanium (GeO<sub>2</sub>) to increase the refractive index, enabling optical signal transmission within the core region, while the cladding utilizes high-purity silica to facilitate total internal reflection of light waves. The manufacturing process primarily involves optical fiber preform fabrication, high-temperature drawing, coating, and testing.

After years of development, G.652D single-mode fiber technology has matured into a stable product ecosystem, with technical upgrades primarily focused on reducing signal loss, increasing transmission capacity, and enhancing manufacturing consistency.

Current mainstream products feature a low-water-peak design; by minimizing hydroxyl impurity levels, the fiber supports transmission across a broader wavelength range, thereby meeting the requirements of systems such as CWDM and DWDM. With the evolution of 400G, 800G, and even higher-speed communication systems, manufacturers continue to optimize key parameters—such as attenuation, mode field diameter, and dispersion characteristics—to boost transmission performance. Meanwhile, G.652D fiber is increasingly being combined with bend-insensitive G.657 fiber to create complementary solutions in access networks, while new products like G.654 ultra-low-loss fiber are being deployed for ultra-long-haul, high-capacity transmission.

Global initiatives—including digital infrastructure construction, 5G network deployment, the rollout of gigabit broadband, and the development of AI computing infrastructure—provide long-term policy support for the fiber-optic communication industry. China continues to advance strategies such as "Digital China" and "East Data, West Computing," accelerating the construction of data centers, computing power networks, and communication infrastructure, which sustains the scale of the domestic fiber and cable industry; similarly, regions such as Europe, the United States, and Japan are prioritizing broadband network upgrades and investments in data infrastructure. Furthermore, the rapid expansion of AI data centers in recent years has created a demand for higher-speed, lower-latency optical communications, driving adjustments in the fiber supply chain and leading to a rebound in fiber demand in certain regions. Nevertheless, the industry continues to face challenges such as capacity expansion, price competition, and pressure from telecommunications operators regarding procurement pricing.

## Report Scope

LP Information, Inc. (LPI) ' newest research report, the "G.652D Single Mode Fiber Industry Forecast" looks at past sales and reviews total world G.652D Single Mode Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected G.652D Single Mode Fiber sales for 2026 through 2032. With G.652D Single Mode Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world G.652D Single Mode Fiber industry.

This Insight Report provides a comprehensive analysis of the global G.652D Single Mode 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 G.652D Single Mode Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global G.652D Single Mode Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for G.652D Single Mode 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 G.652D Single Mode Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of G.652D Single Mode Fiber market by product type, application, key manufacturers and key regions and countries.

## **Segmentation by Type:**

Standard G.652D Optical Fiber

Low-Loss G.652D Optical Fiber

## **Segmentation by Attenuation Indicator:**

≤0.22 dB/km

≤0.20 dB/km

## **Segmentation by Dispersion Performance:**

Standard Dispersion Type

Low Dispersion Optimized Type

## **Segmentation by Application:**

Fiber To The Home (FTTH)

Access Network

Data Center

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.

Sumitomo Electric

Corning

Fujikura

Furukawa Electric

Prysmian Group

OFS Fitel

Shin-Etsu

YOFC

Hengtong

ZTT

Futong Group

FiberHome

Tongding Interconnection

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global G.652D Single Mode Fiber market?

What factors are driving G.652D Single Mode Fiber market growth, globally and by region?

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

How do G.652D Single Mode Fiber market opportunities vary by end market size?

How does G.652D Single Mode Fiber break out by Type, by Application?

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