

Global G.652D Single Mode Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global G.652D Single Mode Fiber market size was valued at US\$ 1814 million in 2025 and is forecast to a readjusted size of US\$ 3116 million by 2032 with a CAGR of 8.0% during review period.

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 (SiO₂) as the primary material and consists of a core, cladding, and coating. The core is usually doped with materials such as germanium (GeO₂) 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

This report is a detailed and comprehensive analysis for global G.652D Single Mode Fiber market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global G.652D Single Mode Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global G.652D Single Mode Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global G.652D Single Mode Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global G.652D Single Mode Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (M Fiber-km), and ASP (US\$/Fiber-km), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for G.652D Single Mode Fiber

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global G.652D Single Mode Fiber market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Electric, Corning, Fujikura, Furukawa Electric, Prysmian Group, OFS Fitel, Shin-Etsu, YOFC, Hengtong, ZTT, etc.

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

Market Segmentation

G.652D Single Mode Fiber market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts

for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard G.652D Optical Fiber

Low-Loss G.652D Optical Fiber

Market segment by Attenuation Indicator

≤0.22 dB/km

≤0.20 dB/km

Market segment by Dispersion Performance

Standard Dispersion Type

Low Dispersion Optimized Type

Market segment by Application

Fiber To The Home (FTTH)

Access Network

Data Center

Others

Major players covered

Sumitomo Electric

Corning

Fujikura

Furukawa Electric

Prysmian Group

OFS Fitel

Shin-Etsu

YOFC

Hengtong

ZTT

Futong Group

FiberHome

Tongding Interconnection

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe G.652D Single Mode Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of G.652D Single Mode Fiber, with price, sales quantity, revenue, and global market share of G.652D Single Mode Fiber from 2021 to 2026.

Chapter 3, the G.652D Single Mode Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the G.652D Single Mode Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and G.652D Single Mode Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of G.652D Single Mode Fiber.

Chapter 14 and 15, to describe G.652D Single Mode Fiber sales channel, distributors, customers, research findings and conclusion.

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