

Global G.652D Single Mode Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global G.652D Single Mode Fiber market size is expected to reach \$ 3116 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

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 (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 studies the global G.652D Single Mode Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for G.652D Single Mode 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 G.652D Single Mode Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global G.652D Single Mode Fiber total production and demand, 2021-2032, (M Fiber-

km)

Global G.652D Single Mode Fiber total production value, 2021-2032, (USD Million)

Global G.652D Single Mode Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global G.652D Single Mode Fiber consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

U.S. VS China: G.652D Single Mode Fiber domestic production, consumption, key domestic manufacturers and share

Global G.652D Single Mode Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global G.652D Single Mode Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global G.652D Single Mode Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global G.652D Single Mode 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World G.652D Single Mode 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 G.652D Single Mode Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global G.652D Single Mode Fiber Market, Segmentation by Type:

Standard G.652D Optical Fiber

Low-Loss G.652D Optical Fiber

Global G.652D Single Mode Fiber Market, Segmentation by Attenuation Indicator:

?0.22 dB/km

?0.20 dB/km

Global G.652D Single Mode Fiber Market, Segmentation by Dispersion Performance:

Standard Dispersion Type

Low Dispersion Optimized Type

Global G.652D Single Mode Fiber Market, Segmentation by Application:

Fiber To The Home (FTTH)

Access Network

Data Center

Others

Companies Profiled:

Sumitomo Electric

Corning

Fujikura

Furukawa Electric

Prysmian Group

OFS Fitel

Shin-Etsu

YOFC

Hengtong

ZTT

Futong Group

FiberHome

Tongding Interconnection

Key Questions Answered:

1. How big is the global G.652D Single Mode Fiber market?

2. What is the demand of the global G.652D Single Mode Fiber market?
3. What is the year over year growth of the global G.652D Single Mode Fiber market?
4. What is the production and production value of the global G.652D Single Mode Fiber market?
5. Who are the key producers in the global G.652D Single Mode Fiber market?
6. What are the growth factors driving the market demand?

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