

Global G.657 Optical Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global G.657 Optical Fiber market size is expected to reach \$ 4735 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

G.657 optical fiber refers to bend-insensitive single-mode fiber that complies with the International Telecommunication Union (ITU-T) G.657 standard. By optimizing the refractive index profile and core structure design, this type of fiber significantly reduces bending loss while maintaining compatibility with G.652.D single-mode fiber.

The upstream segment of the industry chain primarily includes 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, fiber coloring materials, and precision fiber-drawing equipment; notably, the manufacture of high-purity preforms and the use of trench-assisted refractive index designs are key to achieving superior bend resistance. The midstream segment involves the R&D and manufacturing of G.657 fiber; processes such as preform preparation, fiber drawing, coating and curing, and online inspection are employed to produce bend-insensitive single-mode fibers meeting ITU-T G.657.A1, A2, B2, and B3 standards, which are subsequently processed into access cables, indoor cables, and data center cables. The downstream segment sees widespread application in fields such as FTTH (Fiber to the Home), FTTB/FTTC access networks, 5G/6G communication networks, and AI data centers.

In 2025, global sales volume for G.657 fiber is projected to reach 428 million fiber-kilometers, with a production capacity of approximately 600 million fiber-kilometers; the average selling price is estimated at \$5.7 per fiber-kilometer, with an average gross margin of 25%-30%.

G.657 optical fiber technology continues to evolve toward lower bending loss, enhanced compatibility, and higher cabling density. Market adoption has gradually shifted from the early G.657.A1 standard to G.657.A2, which offers superior bend resistance; the latter meets requirements for tighter bending radii and higher-density cabling while maintaining compatibility with G.652.D fiber. Looking ahead, ultra-low-loss fiber, 200 μ m reduced-diameter fiber, micro-cables, and high-fiber-count cables will develop in tandem with G.657.A2, driving the evolution of access networks and data centers toward higher capacity and density.

This report studies the global G.657 Optical Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for G.657 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 G.657 Optical Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global G.657 Optical Fiber total production and demand, 2021-2032, (M Fiber-km)

Global G.657 Optical Fiber total production value, 2021-2032, (USD Million)

Global G.657 Optical Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global G.657 Optical Fiber consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

U.S. VS China: G.657 Optical Fiber domestic production, consumption, key domestic manufacturers and share

Global G.657 Optical Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global G.657 Optical Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global G.657 Optical Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global G.657 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 Corning, Sumitomo Electric, Fujikura, Furukawa

Electric, Prysmian Group, Nexans, STL?Sterlite Technologies?, YOFC, Hengtong Optic-Electric, 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.657 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 G.657 Optical Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global G.657 Optical Fiber Market, Segmentation by Type:

G.657.A1

G.657.A2

G.657.B2

G.657.B3

Global G.657 Optical Fiber Market, Segmentation by Minimum Bending Radius:

5 mm

7.5 mm

10 mm

Global G.657 Optical Fiber Market, Segmentation by Coating Diameter:

180 ?m

200 ?m

250 ?m

Others

Global G.657 Optical Fiber Market, Segmentation by Application:

Fiber To The Home (FTTH)

Access Network

Data Center

Others

Companies Profiled:

Corning

Sumitomo Electric

Fujikura

Furukawa Electric

Prysmian Group

Nexans

STL?Sterlite Technologies?

YOFC

Hengtong Optic-Electric

ZTT

FiberHome

Tongding Interconnection

TFO

Fasten

Futong Group

Hongan Group

Key Questions Answered:

1. How big is the global G.657 Optical Fiber market?
2. What is the demand of the global G.657 Optical Fiber market?
3. What is the year over year growth of the global G.657 Optical Fiber market?

4. What is the production and production value of the global G.657 Optical Fiber market?
5. Who are the key producers in the global G.657 Optical Fiber market?
6. What are the growth factors driving the market demand?

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