

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) market size was valued at US\$ 2289 million in 2025 and is forecast to a readjusted size of US\$ 19729 million by 2032 with a CAGR of 20.5% during review period.

Bend-Insensitive Single-Mode Fiber (G.657.A2) is a high-performance single-mode optical fiber compliant with the ITU-T G.657.A2 standard. Its key feature is the ability to maintain low additional bend loss under small bend radius and high-density cabling conditions, while retaining good compatibility with conventional G.652.D single-mode fiber. The product is typically manufactured from A2-class optical fiber preforms through fiber drawing, coating, screening, and testing, helping reduce link loss caused by bending during routing, fiber management, patching, and maintenance.

Compared with standard G.652.D fiber, G.657.A2 fiber is better suited for space-constrained, high-density, and small-bend-radius communication environments. Major applications include high-density cabling in AI data centers, GPU cluster interconnections, patch cords inside and between racks, FTTH access networks, in-building cabling, campus networks, and compact fiber routing scenarios. With the growth of AI computing infrastructure, cloud computing, and high-speed optical interconnects, G.657.A2 fiber is evolving from a traditional access-network and indoor cabling material into a key high-end single-mode fiber product for data centers and high-density optical communication networks.

In 2025, the global shipment of Bend-Insensitive Single-Mode Fiber (G.657.A2) was approximately 311.54 million fiber-kilometers, with an average price of USD 7.14 per

fiber-kilometer and a gross margin of approximately 40%.

Demand for G.657.A2 Fiber is rising rapidly, essentially driven by the simultaneous increase in fiber usage, cabling density, and bend-resistance requirements from AI data centers and high-density communication networks. Scenarios such as GPU clusters, switch interconnections, optical module connections, and high-density patch cords inside and between racks place higher requirements on fiber bend radius and link reliability. Conventional G.652.D fibers are more prone to bend loss under complex routing conditions, while G.657.A2 fibers, with stronger bend-insensitive performance, are becoming a key incremental fiber category for AI data centers, FTTH upgrades, and indoor high-density cabling. Public reports have also noted that AI data centers use significantly more fiber than traditional server architectures, contributing to fiber supply shortages and longer delivery lead times.

From the perspective of pricing and supply, G.657.A2 optical fiber has entered a clear upcycle. Some industry data indicate that G.657.A2 fiber prices rose rapidly in 2026, driven by growing AI infrastructure demand, tight preform supply, and insufficient capacity for high-end bend-insensitive optical fibers.

From the competitive landscape perspective, the G.657.A2 optical fiber market favors companies with integrated capabilities in preforms, fiber drawing, coating, optical cable manufacturing, and customer qualification. In the short term, price increases will significantly improve profitability for companies with A2 preform and A2 fiber capacity. In the medium to long term, as preform capacity expands and A2 fiber capacity is released, competition will shift back to product consistency, low bend loss, delivery stability, customer certification, and large-scale cost control. This product is not simply a conventional communication fiber, but a high-end single-mode fiber segment jointly driven by AI computing, data centers, FTTH, and high-density cabling demand.

This report is a detailed and comprehensive analysis for global Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) market size and forecasts, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2)

- 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Corning, Sumitomo Electric, Fujikura, Prysmian, Furukawa Electric, Sterlite Technologies Limited, YOFC, Hengtong Group, ZTT Group, Wuhan Fenghuo Ruituo Technology Co., Ltd., etc.

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

Market Segmentation

Bend-Insensitive Single-Mode Fiber (G.657.A2) 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

Bend Radius 7.5mm

Bend Radius 10mm

Bend Radius 15mm

Market segment by Fabrication Process

OVD

PCVD

Others

Market segment by Coating Diameter

250 ?m

200 ?m

180 ?m

Others

Market segment by Application

Data Center

UAV

Others

Major players covered

Corning

Sumitomo Electric

Fujikura

Prysmian

Furukawa Electric

Sterlite Technologies Limited

YOFC

Hengtong Group

ZTT Group

Wuhan Fenghuo Ruituo Technology Co., Ltd.

Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd.

Far East Smart Energy

Tongding Interconnection Information Co., Ltd.

Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.

Futong Group Co., Ltd.

Putian Cable Group Co., Ltd.

Weihai Changhe Optical Guide Technology Co., Ltd.

Twentsche (Nanjing) Fibre Optics Ltd.

Kingsignal Technology Co., Ltd.

Furukawa Electric Xi'an Optical Communication Co., Ltd.

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bend-Insensitive Single-Mode Fiber (G.657.A2) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bend-Insensitive Single-Mode Fiber (G.657.A2), with price, sales quantity, revenue, and global market share of Bend-Insensitive Single-Mode Fiber (G.657.A2) from 2021 to 2026.

Chapter 3, the Bend-Insensitive Single-Mode Fiber (G.657.A2) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2).

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