

Global Bend-Insensitive Fiber Market Growth 2026-2032

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Abstracts

The global Bend-Insensitive Fiber market size is predicted to grow from US\$ 1467 million in 2025 to US\$ 2827 million in 2032; it is expected to grow at a CAGR of 10.1% from 2026 to 2032.

Bend-insensitive fiber is a low-bending-loss optical transmission medium developed for access networks, indoor cabling, high-density distribution, and space-constrained communication links. Its core function is to reduce optical power loss caused by macrobending and microbending when fibers are coiled, bent, compressed, routed through ducts, brought into customer premises, or deployed in compact cabinets, thereby improving link stability and installation tolerance. These products are typically based on high-purity silica glass and achieve low additional attenuation under small-radius conditions through optimized core and cladding refractive-index profiles, trench-assisted structures, low-index cladding, or nanoStructured designs, combined with acrylate or high-performance resin composite coatings. The mainstream communications-market scope is centered on the ITU-T G.657 series, in which G.657.A1 and G.657.A2 emphasize compatibility with existing G.652.D systems, while G.657.B3 focuses more on in-building, terminal access, and ultra-small bend-radius routing. Product delivery forms include bare fiber, colored fiber, 200-micron or 180-micron reduced-diameter coated fiber, fiber ribbon, and fiber for cable manufacturing. Key customers include optical cable manufacturers, telecom operators, broadband contractors, data center builders, and optical component manufacturers. As FTTH, FTTR, 5G transport, AI data centers, and legacy residential fiber-network upgrades continue to expand, bend-insensitive fiber is evolving from a customer-premises access material into a foundational material for high-density optical networks.

The industrial value of bend-insensitive fiber comes from changes in optical network

deployment. Traditional single-mode fiber is more suitable for long-distance links with limited bending and relatively controllable engineering conditions, while fiber-to-the-home, fiber-to-the-room, in-building cabling, in-cabinet distribution, and high-density data center interconnection frequently expose fibers to small-radius bends, duct pulling, fiber coiling, and compact-space routing. By reducing macrobending and microbending losses, bend-insensitive fiber improves the safety margin of the link budget and reduces installers' dependence on highly controlled routing conditions. Its market significance is not only to replace conventional fiber, but also to enable operators and contractors to complete higher-density optical access in existing ducts, existing weak-current spaces, and complex indoor routes. As home broadband evolves from single-point entry to multi-room coverage, and enterprise and campus networks move from traditional cabinets to denser optical distribution structures, these products will continue to benefit from terminal opticalization and high-density network deployment.

Product competition is shifting from a single attenuation metric to a broader balance of performance attributes. Bend-insensitive fiber must maintain low additional loss under small bend radii while also balancing G.652.D compatibility, mode field diameter consistency, splice loss, full-spectrum operation, coating diameter, tensile reliability, and long-term environmental stability. G.657.A1 and G.657.A2 focus more on compatible deployment in access and general networks, while G.657.B3 and stronger bend-performance products are better suited to customer-premises terminals, complex indoor routing, and internal optical component connections. Products with 200-micron and 180-micron reduced-diameter coatings further reduce cable diameter and increase fiber density, allowing the same duct resources to carry more fibers and directly supporting operators' cost reduction and efficiency improvement. Future competitive advantages will come from preform processes, refractive-index profile design, coating-material systems, stable large-scale drawing, and coordination with cable design.

Global demand will continue to shift toward access-network upgrades and high-density connectivity. FTTH and FTTR are increasing fiber consumption in residential and in-building environments, 5G and future mobile networks are expanding optical connections for fronthaul, backhaul, and indoor coverage, while AI data centers and cloud infrastructure are strengthening demand for high-density patching, inter-cabinet connections, and low-loss cabling inside facilities. On the supply side, the industry has already formed a multi-regional competitive landscape. International manufacturers hold important positions in advanced materials, product portfolios, and brand certification, while Chinese and Asian manufacturers are increasing market share through integrated industrial chains, scaled manufacturing, and engineering-support capabilities. Because

bend-insensitive fiber can improve installation efficiency, reduce rework, extend network life, and save duct space, its long-term demand outlook is relatively resilient. Market size is expected to expand alongside overall fiber demand, network upgrade cycles, and high-density cabling requirements.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bend-Insensitive Fiber and breaks down the forecast by Coating Diameter, 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 Bend-Insensitive Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of Bend-Insensitive Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Coating Diameter:

180~200 Micron Coated Fiber

200~250 Micron Coated Fiber

Other

Segmentation by Performance Grade:

1550 nm Standard-Attenuation Fiber

1550 nm Low-Attenuation Fiber

1550 nm Ultra-Low-Attenuation Fiber

Other

Segmentation by Application Link Position:

Backbone Access Fiber

Distribution Fiber

In-Building Riser Fiber

Internal Optical Component Interconnect Fiber

Other

Segmentation by Application:

FTTH Home Access

Operator Access Network

Data Center High-Density Cabling

Enterprise Campus Network

Optical Component Miniaturization

Other

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.

Corning Incorporated

Furukawa Electric Co., Ltd.

Prysmian S.p.A.

Sumitomo Electric Industries, Ltd.

Fujikura Ltd.

Yangtze Optical Fibre and Cable Joint Stock Limited Company

FiberHome Telecommunication Technologies Co., Ltd.

Hengtong Group Co., Ltd.

Tongding Group Co., Ltd.

Shenzhen Kingsignal Technology Co., Ltd.

Sterlite Technologies Limited

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bend-Insensitive Fiber market?

What factors are driving Bend-Insensitive Fiber market growth, globally and by region?

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

How do Bend-Insensitive Fiber market opportunities vary by end market size?

How does Bend-Insensitive Fiber break out by Coating Diameter, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Bend-Insensitive Fiber Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Bend-Insensitive Fiber by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Bend-Insensitive Fiber by Country/Region, 2021, 2025 & 2032
- 2.2 Bend-Insensitive Fiber Segment by Coating Diameter
 - 2.2.1 180~200 Micron Coated Fiber
 - 2.2.2 200~250 Micron Coated Fiber
 - 2.2.3 Other
 - 2.2.4 Bend-Insensitive Fiber Sales by Coating Diameter
 - 2.2.4.1 Global Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)
 - 2.2.4.2 Global Bend-Insensitive Fiber Revenue and Market Share by Coating Diameter (2021-2026)
 - 2.2.4.3 Global Bend-Insensitive Fiber Sale Price by Coating Diameter (2021-2026)
- 2.3 Bend-Insensitive Fiber Segment by Performance Grade
 - 2.3.1 1550 nm Standard-Attenuation Fiber
 - 2.3.2 1550 nm Low-Attenuation Fiber
 - 2.3.3 1550 nm Ultra-Low-Attenuation Fiber
 - 2.3.4 Other
 - 2.3.5 Bend-Insensitive Fiber Sales by Performance Grade
 - 2.3.5.1 Global Bend-Insensitive Fiber Sales Market Share by Performance Grade (2021-2026)

2.3.5.2 Global Bend-Insensitive Fiber Revenue and Market Share by Performance Grade (2021-2026)

2.3.5.3 Global Bend-Insensitive Fiber Sale Price by Performance Grade (2021-2026)

2.4 Bend-Insensitive Fiber Segment by Application Link Position

2.4.1 Backbone Access Fiber

2.4.2 Distribution Fiber

2.4.3 In-Building Riser Fiber

2.4.4 Internal Optical Component Interconnect Fiber

2.4.5 Other

2.4.6 Bend-Insensitive Fiber Sales by Application Link Position

2.4.6.1 Global Bend-Insensitive Fiber Sales Market Share by Application Link Position (2021-2026)

2.4.6.2 Global Bend-Insensitive Fiber Revenue and Market Share by Application Link Position (2021-2026)

2.4.6.3 Global Bend-Insensitive Fiber Sale Price by Application Link Position (2021-2026)

2.5 Bend-Insensitive Fiber Segment by Application

2.5.1 FTTH Home Access

2.5.2 Operator Access Network

2.5.3 Data Center High-Density Cabling

2.5.4 Enterprise Campus Network

2.5.5 Optical Component Miniaturization

2.5.6 Other

2.5.7 Bend-Insensitive Fiber Sales by Application

2.5.7.1 Global Bend-Insensitive Fiber Sale Market Share by Application (2021-2026)

2.5.7.2 Global Bend-Insensitive Fiber Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Bend-Insensitive Fiber Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Bend-Insensitive Fiber Breakdown Data by Company

3.1.1 Global Bend-Insensitive Fiber Annual Sales by Company (2021-2026)

3.1.2 Global Bend-Insensitive Fiber Sales Market Share by Company (2021-2026)

3.2 Global Bend-Insensitive Fiber Annual Revenue by Company (2021-2026)

3.2.1 Global Bend-Insensitive Fiber Revenue by Company (2021-2026)

3.2.2 Global Bend-Insensitive Fiber Revenue Market Share by Company (2021-2026)

3.3 Global Bend-Insensitive Fiber Sale Price by Company

3.4 Key Manufacturers Bend-Insensitive Fiber Producing Area Distribution, Sales Area,

Product Type

- 3.4.1 Key Manufacturers Bend-Insensitive Fiber Product Location Distribution
- 3.4.2 Players Bend-Insensitive Fiber Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BEND-INSENSITIVE FIBER BY GEOGRAPHIC REGION

- 4.1 World Historic Bend-Insensitive Fiber Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Bend-Insensitive Fiber Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Bend-Insensitive Fiber Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Bend-Insensitive Fiber Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Bend-Insensitive Fiber Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Bend-Insensitive Fiber Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Bend-Insensitive Fiber Sales Growth
- 4.4 APAC Bend-Insensitive Fiber Sales Growth
- 4.5 Europe Bend-Insensitive Fiber Sales Growth
- 4.6 Middle East & Africa Bend-Insensitive Fiber Sales Growth

5 AMERICAS

- 5.1 Americas Bend-Insensitive Fiber Sales by Country
 - 5.1.1 Americas Bend-Insensitive Fiber Sales by Country (2021-2026)
 - 5.1.2 Americas Bend-Insensitive Fiber Revenue by Country (2021-2026)
- 5.2 Americas Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026)
- 5.3 Americas Bend-Insensitive Fiber Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Bend-Insensitive Fiber Sales by Region

6.1.1 APAC Bend-Insensitive Fiber Sales by Region (2021-2026)

6.1.2 APAC Bend-Insensitive Fiber Revenue by Region (2021-2026)

6.2 APAC Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026)

6.3 APAC Bend-Insensitive Fiber Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Bend-Insensitive Fiber by Country

7.1.1 Europe Bend-Insensitive Fiber Sales by Country (2021-2026)

7.1.2 Europe Bend-Insensitive Fiber Revenue by Country (2021-2026)

7.2 Europe Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026)

7.3 Europe Bend-Insensitive Fiber Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Bend-Insensitive Fiber by Country

8.1.1 Middle East & Africa Bend-Insensitive Fiber Sales by Country (2021-2026)

8.1.2 Middle East & Africa Bend-Insensitive Fiber Revenue by Country (2021-2026)

8.2 Middle East & Africa Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026)

8.3 Middle East & Africa Bend-Insensitive Fiber Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Bend-Insensitive Fiber

10.3 Manufacturing Process Analysis of Bend-Insensitive Fiber

10.4 Industry Chain Structure of Bend-Insensitive Fiber

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Bend-Insensitive Fiber Distributors

11.3 Bend-Insensitive Fiber Customer

12 WORLD FORECAST REVIEW FOR BEND-INSENSITIVE FIBER BY GEOGRAPHIC REGION

12.1 Global Bend-Insensitive Fiber Market Size Forecast by Region

12.1.1 Global Bend-Insensitive Fiber Forecast by Region (2027-2032)

12.1.2 Global Bend-Insensitive Fiber Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Bend-Insensitive Fiber Forecast by Coating Diameter (2027-2032)

12.7 Global Bend-Insensitive Fiber Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Corning Incorporated

13.1.1 Corning Incorporated Company Information

- 13.1.2 Corning Incorporated Bend-Insensitive Fiber Product Portfolios and Specifications
- 13.1.3 Corning Incorporated Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Corning Incorporated Main Business Overview
- 13.1.5 Corning Incorporated Latest Developments
- 13.2 Furukawa Electric Co., Ltd.
 - 13.2.1 Furukawa Electric Co., Ltd. Company Information
 - 13.2.2 Furukawa Electric Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications
 - 13.2.3 Furukawa Electric Co., Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Furukawa Electric Co., Ltd. Main Business Overview
 - 13.2.5 Furukawa Electric Co., Ltd. Latest Developments
- 13.3 Prysmian S.p.A.
 - 13.3.1 Prysmian S.p.A. Company Information
 - 13.3.2 Prysmian S.p.A. Bend-Insensitive Fiber Product Portfolios and Specifications
 - 13.3.3 Prysmian S.p.A. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Prysmian S.p.A. Main Business Overview
 - 13.3.5 Prysmian S.p.A. Latest Developments
- 13.4 Sumitomo Electric Industries, Ltd.
 - 13.4.1 Sumitomo Electric Industries, Ltd. Company Information
 - 13.4.2 Sumitomo Electric Industries, Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications
 - 13.4.3 Sumitomo Electric Industries, Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Sumitomo Electric Industries, Ltd. Main Business Overview
 - 13.4.5 Sumitomo Electric Industries, Ltd. Latest Developments
- 13.5 Fujikura Ltd.
 - 13.5.1 Fujikura Ltd. Company Information
 - 13.5.2 Fujikura Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications
 - 13.5.3 Fujikura Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Fujikura Ltd. Main Business Overview
 - 13.5.5 Fujikura Ltd. Latest Developments
- 13.6 Yangtze Optical Fibre and Cable Joint Stock Limited Company
 - 13.6.1 Yangtze Optical Fibre and Cable Joint Stock Limited Company Company Information

13.6.2 Yangtze Optical Fibre and Cable Joint Stock Limited Company Bend-Insensitive Fiber Product Portfolios and Specifications

13.6.3 Yangtze Optical Fibre and Cable Joint Stock Limited Company Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Yangtze Optical Fibre and Cable Joint Stock Limited Company Main Business Overview

13.6.5 Yangtze Optical Fibre and Cable Joint Stock Limited Company Latest Developments

13.7 FiberHome Telecommunication Technologies Co., Ltd.

13.7.1 FiberHome Telecommunication Technologies Co., Ltd. Company Information

13.7.2 FiberHome Telecommunication Technologies Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

13.7.3 FiberHome Telecommunication Technologies Co., Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 FiberHome Telecommunication Technologies Co., Ltd. Main Business Overview

13.7.5 FiberHome Telecommunication Technologies Co., Ltd. Latest Developments

13.8 Hengtong Group Co., Ltd.

13.8.1 Hengtong Group Co., Ltd. Company Information

13.8.2 Hengtong Group Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

13.8.3 Hengtong Group Co., Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Hengtong Group Co., Ltd. Main Business Overview

13.8.5 Hengtong Group Co., Ltd. Latest Developments

13.9 Tongding Group Co., Ltd.

13.9.1 Tongding Group Co., Ltd. Company Information

13.9.2 Tongding Group Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

13.9.3 Tongding Group Co., Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Tongding Group Co., Ltd. Main Business Overview

13.9.5 Tongding Group Co., Ltd. Latest Developments

13.10 Shenzhen Kingsignal Technology Co., Ltd.

13.10.1 Shenzhen Kingsignal Technology Co., Ltd. Company Information

13.10.2 Shenzhen Kingsignal Technology Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

13.10.3 Shenzhen Kingsignal Technology Co., Ltd. Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Shenzhen Kingsignal Technology Co., Ltd. Main Business Overview

13.10.5 Shenzhen Kingsignal Technology Co., Ltd. Latest Developments

13.11 Sterlite Technologies Limited

13.11.1 Sterlite Technologies Limited Company Information

13.11.2 Sterlite Technologies Limited Bend-Insensitive Fiber Product Portfolios and Specifications

13.11.3 Sterlite Technologies Limited Bend-Insensitive Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Sterlite Technologies Limited Main Business Overview

13.11.5 Sterlite Technologies Limited Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Bend-Insensitive Fiber Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Bend-Insensitive Fiber Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 180~200 Micron Coated Fiber

Table 4. Major Players of 200~250 Micron Coated Fiber

Table 5. Major Players of Other

Table 6. Global Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026) & (K Meter)

Table 7. Global Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)

Table 8. Global Bend-Insensitive Fiber Revenue by Coating Diameter (2021-2026) & (\$ million)

Table 9. Global Bend-Insensitive Fiber Revenue Market Share by Coating Diameter (2021-2026)

Table 10. Global Bend-Insensitive Fiber Sale Price by Coating Diameter (2021-2026) & (US\$/Meter)

Table 11. Major Players of 1550 nm Standard-Attenuation Fiber

Table 12. Major Players of 1550 nm Low-Attenuation Fiber

Table 13. Major Players of 1550 nm Ultra-Low-Attenuation Fiber

Table 14. Major Players of Other

Table 15. Global Bend-Insensitive Fiber Sales by Performance Grade (2021-2026) & (K Meter)

Table 16. Global Bend-Insensitive Fiber Sales Market Share by Performance Grade (2021-2026)

Table 17. Global Bend-Insensitive Fiber Revenue by Performance Grade (2021-2026) & (\$ million)

Table 18. Global Bend-Insensitive Fiber Revenue Market Share by Performance Grade (2021-2026)

Table 19. Global Bend-Insensitive Fiber Sale Price by Performance Grade (2021-2026) & (US\$/Meter)

Table 20. Major Players of Backbone Access Fiber

Table 21. Major Players of Distribution Fiber

Table 22. Major Players of In-Building Riser Fiber

Table 23. Major Players of Internal Optical Component Interconnect Fiber

Table 24. Major Players of Other

Table 25. Global Bend-Insensitive Fiber Sales by Application Link Position (2021-2026) & (K Meter)

Table 26. Global Bend-Insensitive Fiber Sales Market Share by Application Link Position (2021-2026)

Table 27. Global Bend-Insensitive Fiber Revenue by Application Link Position (2021-2026) & (\$ million)

Table 28. Global Bend-Insensitive Fiber Revenue Market Share by Application Link Position (2021-2026)

Table 29. Global Bend-Insensitive Fiber Sale Price by Application Link Position (2021-2026) & (US\$/Meter)

Table 30. Global Bend-Insensitive Fiber Sale by Application (2021-2026) & (K Meter)

Table 31. Global Bend-Insensitive Fiber Sale Market Share by Application (2021-2026)

Table 32. Global Bend-Insensitive Fiber Revenue by Application (2021-2026) & (\$ million)

Table 33. Global Bend-Insensitive Fiber Revenue Market Share by Application (2021-2026)

Table 34. Global Bend-Insensitive Fiber Sale Price by Application (2021-2026) & (US\$/Meter)

Table 35. Global Bend-Insensitive Fiber Sales by Company (2021-2026) & (K Meter)

Table 36. Global Bend-Insensitive Fiber Sales Market Share by Company (2021-2026)

Table 37. Global Bend-Insensitive Fiber Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global Bend-Insensitive Fiber Revenue Market Share by Company (2021-2026)

Table 39. Global Bend-Insensitive Fiber Sale Price by Company (2021-2026) & (US\$/Meter)

Table 40. Key Manufacturers Bend-Insensitive Fiber Producing Area Distribution and Sales Area

Table 41. Players Bend-Insensitive Fiber Products Offered

Table 42. Bend-Insensitive Fiber Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global Bend-Insensitive Fiber Sales by Geographic Region (2021-2026) & (K Meter)

Table 46. Global Bend-Insensitive Fiber Sales Market Share Geographic Region (2021-2026)

Table 47. Global Bend-Insensitive Fiber Revenue by Geographic Region (2021-2026) &

(\$ millions)

Table 48. Global Bend-Insensitive Fiber Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global Bend-Insensitive Fiber Sales by Country/Region (2021-2026) & (K Meter)

Table 50. Global Bend-Insensitive Fiber Sales Market Share by Country/Region (2021-2026)

Table 51. Global Bend-Insensitive Fiber Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global Bend-Insensitive Fiber Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas Bend-Insensitive Fiber Sales by Country (2021-2026) & (K Meter)

Table 54. Americas Bend-Insensitive Fiber Sales Market Share by Country (2021-2026)

Table 55. Americas Bend-Insensitive Fiber Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026) & (K Meter)

Table 57. Americas Bend-Insensitive Fiber Sales by Application (2021-2026) & (K Meter)

Table 58. APAC Bend-Insensitive Fiber Sales by Region (2021-2026) & (K Meter)

Table 59. APAC Bend-Insensitive Fiber Sales Market Share by Region (2021-2026)

Table 60. APAC Bend-Insensitive Fiber Revenue by Region (2021-2026) & (\$ millions)

Table 61. APAC Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026) & (K Meter)

Table 62. APAC Bend-Insensitive Fiber Sales by Application (2021-2026) & (K Meter)

Table 63. Europe Bend-Insensitive Fiber Sales by Country (2021-2026) & (K Meter)

Table 64. Europe Bend-Insensitive Fiber Revenue by Country (2021-2026) & (\$ millions)

Table 65. Europe Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026) & (K Meter)

Table 66. Europe Bend-Insensitive Fiber Sales by Application (2021-2026) & (K Meter)

Table 67. Middle East & Africa Bend-Insensitive Fiber Sales by Country (2021-2026) & (K Meter)

Table 68. Middle East & Africa Bend-Insensitive Fiber Revenue Market Share by Country (2021-2026)

Table 69. Middle East & Africa Bend-Insensitive Fiber Sales by Coating Diameter (2021-2026) & (K Meter)

Table 70. Middle East & Africa Bend-Insensitive Fiber Sales by Application (2021-2026) & (K Meter)

Table 71. Key Market Drivers & Growth Opportunities of Bend-Insensitive Fiber
Table 72. Key Market Challenges & Risks of Bend-Insensitive Fiber
Table 73. Key Industry Trends of Bend-Insensitive Fiber
Table 74. Bend-Insensitive Fiber Raw Material
Table 75. Key Suppliers of Raw Materials
Table 76. Bend-Insensitive Fiber Distributors List
Table 77. Bend-Insensitive Fiber Customer List
Table 78. Global Bend-Insensitive Fiber Sales Forecast by Region (2027-2032) & (K Meter)
Table 79. Global Bend-Insensitive Fiber Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Americas Bend-Insensitive Fiber Sales Forecast by Country (2027-2032) & (K Meter)
Table 81. Americas Bend-Insensitive Fiber Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. APAC Bend-Insensitive Fiber Sales Forecast by Region (2027-2032) & (K Meter)
Table 83. APAC Bend-Insensitive Fiber Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 84. Europe Bend-Insensitive Fiber Sales Forecast by Country (2027-2032) & (K Meter)
Table 85. Europe Bend-Insensitive Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Middle East & Africa Bend-Insensitive Fiber Sales Forecast by Country (2027-2032) & (K Meter)
Table 87. Middle East & Africa Bend-Insensitive Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 88. Global Bend-Insensitive Fiber Sales Forecast by Coating Diameter (2027-2032) & (K Meter)
Table 89. Global Bend-Insensitive Fiber Revenue Forecast by Coating Diameter (2027-2032) & (\$ millions)
Table 90. Global Bend-Insensitive Fiber Sales Forecast by Application (2027-2032) & (K Meter)
Table 91. Global Bend-Insensitive Fiber Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 92. Corning Incorporated Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors
Table 93. Corning Incorporated Bend-Insensitive Fiber Product Portfolios and Specifications

Table 94. Corning Incorporated Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 95. Corning Incorporated Main Business

Table 96. Corning Incorporated Latest Developments

Table 97. Furukawa Electric Co., Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 98. Furukawa Electric Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 99. Furukawa Electric Co., Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 100. Furukawa Electric Co., Ltd. Main Business

Table 101. Furukawa Electric Co., Ltd. Latest Developments

Table 102. Prysmian S.p.A. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 103. Prysmian S.p.A. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 104. Prysmian S.p.A. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 105. Prysmian S.p.A. Main Business

Table 106. Prysmian S.p.A. Latest Developments

Table 107. Sumitomo Electric Industries, Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 108. Sumitomo Electric Industries, Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 109. Sumitomo Electric Industries, Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 110. Sumitomo Electric Industries, Ltd. Main Business

Table 111. Sumitomo Electric Industries, Ltd. Latest Developments

Table 112. Fujikura Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 113. Fujikura Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 114. Fujikura Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 115. Fujikura Ltd. Main Business

Table 116. Fujikura Ltd. Latest Developments

Table 117. Yangtze Optical Fibre and Cable Joint Stock Limited Company Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 118. Yangtze Optical Fibre and Cable Joint Stock Limited Company Bend-Insensitive Fiber Product Portfolios and Specifications

Table 119. Yangtze Optical Fibre and Cable Joint Stock Limited Company Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 120. Yangtze Optical Fibre and Cable Joint Stock Limited Company Main Business

Table 121. Yangtze Optical Fibre and Cable Joint Stock Limited Company Latest Developments

Table 122. FiberHome Telecommunication Technologies Co., Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 123. FiberHome Telecommunication Technologies Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 124. FiberHome Telecommunication Technologies Co., Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 125. FiberHome Telecommunication Technologies Co., Ltd. Main Business

Table 126. FiberHome Telecommunication Technologies Co., Ltd. Latest Developments

Table 127. Hengtong Group Co., Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 128. Hengtong Group Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 129. Hengtong Group Co., Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 130. Hengtong Group Co., Ltd. Main Business

Table 131. Hengtong Group Co., Ltd. Latest Developments

Table 132. Tongding Group Co., Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 133. Tongding Group Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 134. Tongding Group Co., Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 135. Tongding Group Co., Ltd. Main Business

Table 136. Tongding Group Co., Ltd. Latest Developments

Table 137. Shenzhen Kingsignal Technology Co., Ltd. Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors

Table 138. Shenzhen Kingsignal Technology Co., Ltd. Bend-Insensitive Fiber Product Portfolios and Specifications

Table 139. Shenzhen Kingsignal Technology Co., Ltd. Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 140. Shenzhen Kingsignal Technology Co., Ltd. Main Business

Table 141. Shenzhen Kingsignal Technology Co., Ltd. Latest Developments
Table 142. Sterlite Technologies Limited Basic Information, Bend-Insensitive Fiber Manufacturing Base, Sales Area and Its Competitors
Table 143. Sterlite Technologies Limited Bend-Insensitive Fiber Product Portfolios and Specifications
Table 144. Sterlite Technologies Limited Bend-Insensitive Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)
Table 145. Sterlite Technologies Limited Main Business
Table 146. Sterlite Technologies Limited Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Bend-Insensitive Fiber
- Figure 2. Bend-Insensitive Fiber Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Bend-Insensitive Fiber Sales Growth Rate 2021-2032 (K Meter)
- Figure 7. Global Bend-Insensitive Fiber Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Bend-Insensitive Fiber Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Bend-Insensitive Fiber Sales Market Share by Country/Region (2025)
- Figure 10. Bend-Insensitive Fiber Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 180~200 Micron Coated Fiber
- Figure 12. Product Picture of 200~250 Micron Coated Fiber
- Figure 13. Product Picture of Other
- Figure 14. Global Bend-Insensitive Fiber Sales Market Share by Coating Diameter in 2026
- Figure 15. Global Bend-Insensitive Fiber Revenue Market Share by Coating Diameter (2021-2026)
- Figure 16. Product Picture of 1550 nm Standard-Attenuation Fiber
- Figure 17. Product Picture of 1550 nm Low-Attenuation Fiber
- Figure 18. Product Picture of 1550 nm Ultra-Low-Attenuation Fiber
- Figure 19. Product Picture of Other
- Figure 20. Global Bend-Insensitive Fiber Sales Market Share by Performance Grade in 2026
- Figure 21. Global Bend-Insensitive Fiber Revenue Market Share by Performance Grade (2021-2026)
- Figure 22. Product Picture of Backbone Access Fiber
- Figure 23. Product Picture of Distribution Fiber
- Figure 24. Product Picture of In-Building Riser Fiber
- Figure 25. Product Picture of Internal Optical Component Interconnect Fiber
- Figure 26. Product Picture of Other
- Figure 27. Global Bend-Insensitive Fiber Sales Market Share by Application Link Position in 2026
- Figure 28. Global Bend-Insensitive Fiber Revenue Market Share by Application Link

Position (2021-2026)

Figure 29. Bend-Insensitive Fiber Consumed in FTTH Home Access

Figure 30. Global Bend-Insensitive Fiber Market: FTTH Home Access (2021-2026) & (K Meter)

Figure 31. Bend-Insensitive Fiber Consumed in Operator Access Network

Figure 32. Global Bend-Insensitive Fiber Market: Operator Access Network (2021-2026) & (K Meter)

Figure 33. Bend-Insensitive Fiber Consumed in Data Center High-Density Cabling

Figure 34. Global Bend-Insensitive Fiber Market: Data Center High-Density Cabling (2021-2026) & (K Meter)

Figure 35. Bend-Insensitive Fiber Consumed in Enterprise Campus Network

Figure 36. Global Bend-Insensitive Fiber Market: Enterprise Campus Network (2021-2026) & (K Meter)

Figure 37. Bend-Insensitive Fiber Consumed in Optical Component Miniaturization

Figure 38. Global Bend-Insensitive Fiber Market: Optical Component Miniaturization (2021-2026) & (K Meter)

Figure 39. Bend-Insensitive Fiber Consumed in Other

Figure 40. Global Bend-Insensitive Fiber Market: Other (2021-2026) & (K Meter)

Figure 41. Global Bend-Insensitive Fiber Sale Market Share by Application (2025)

Figure 42. Global Bend-Insensitive Fiber Revenue Market Share by Application in 2025

Figure 43. Bend-Insensitive Fiber Sales by Company in 2025 (K Meter)

Figure 44. Global Bend-Insensitive Fiber Sales Market Share by Company in 2025

Figure 45. Bend-Insensitive Fiber Revenue by Company in 2025 (\$ millions)

Figure 46. Global Bend-Insensitive Fiber Revenue Market Share by Company in 2025

Figure 47. Global Bend-Insensitive Fiber Sales Market Share by Geographic Region (2021-2026)

Figure 48. Global Bend-Insensitive Fiber Revenue Market Share by Geographic Region in 2025

Figure 49. Americas Bend-Insensitive Fiber Sales 2021-2026 (K Meter)

Figure 50. Americas Bend-Insensitive Fiber Revenue 2021-2026 (\$ millions)

Figure 51. APAC Bend-Insensitive Fiber Sales 2021-2026 (K Meter)

Figure 52. APAC Bend-Insensitive Fiber Revenue 2021-2026 (\$ millions)

Figure 53. Europe Bend-Insensitive Fiber Sales 2021-2026 (K Meter)

Figure 54. Europe Bend-Insensitive Fiber Revenue 2021-2026 (\$ millions)

Figure 55. Middle East & Africa Bend-Insensitive Fiber Sales 2021-2026 (K Meter)

Figure 56. Middle East & Africa Bend-Insensitive Fiber Revenue 2021-2026 (\$ millions)

Figure 57. Americas Bend-Insensitive Fiber Sales Market Share by Country in 2025

Figure 58. Americas Bend-Insensitive Fiber Revenue Market Share by Country (2021-2026)

Figure 59. Americas Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)

Figure 60. Americas Bend-Insensitive Fiber Sales Market Share by Application (2021-2026)

Figure 61. United States Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 62. Canada Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 63. Mexico Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 65. APAC Bend-Insensitive Fiber Sales Market Share by Region in 2025

Figure 66. APAC Bend-Insensitive Fiber Revenue Market Share by Region (2021-2026)

Figure 67. APAC Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)

Figure 68. APAC Bend-Insensitive Fiber Sales Market Share by Application (2021-2026)

Figure 69. China Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 73. India Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe Bend-Insensitive Fiber Sales Market Share by Country in 2025

Figure 77. Europe Bend-Insensitive Fiber Revenue Market Share by Country (2021-2026)

Figure 78. Europe Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)

Figure 79. Europe Bend-Insensitive Fiber Sales Market Share by Application (2021-2026)

Figure 80. Germany Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 81. France Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa Bend-Insensitive Fiber Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa Bend-Insensitive Fiber Sales Market Share by Coating Diameter (2021-2026)

- Figure 87. Middle East & Africa Bend-Insensitive Fiber Sales Market Share by Application (2021-2026)
- Figure 88. Egypt Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 89. South Africa Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Israel Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 91. Turkey Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 92. GCC Countries Bend-Insensitive Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 93. Manufacturing Cost Structure Analysis of Bend-Insensitive Fiber in 2026
- Figure 94. Manufacturing Process Analysis of Bend-Insensitive Fiber
- Figure 95. Industry Chain Structure of Bend-Insensitive Fiber
- Figure 96. Channels of Distribution
- Figure 97. Global Bend-Insensitive Fiber Sales Market Forecast by Region (2027-2032)
- Figure 98. Global Bend-Insensitive Fiber Revenue Market Share Forecast by Region (2027-2032)
- Figure 99. Global Bend-Insensitive Fiber Sales Market Share Forecast by Coating Diameter (2027-2032)
- Figure 100. Global Bend-Insensitive Fiber Revenue Market Share Forecast by Coating Diameter (2027-2032)
- Figure 101. Global Bend-Insensitive Fiber Sales Market Share Forecast by Application (2027-2032)
- Figure 102. Global Bend-Insensitive Fiber Revenue Market Share Forecast by Application (2027-2032)

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