

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bend-Insensitive Single-Mode Fiber (G.657.A2) market size is expected to reach \$ 19729 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

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 studies the global Bend-Insensitive Single-Mode Fiber (G.657.A2) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) total production and demand,

2021-2032, (M Fiber-km)

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) total production value, 2021-2032, (USD Million)

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

U.S. VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) domestic production, consumption, key domestic manufacturers and share

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global Bend-Insensitive Single-Mode Fiber (G.657.A2) 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bend-Insensitive Single-Mode Fiber (G.657.A2) 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 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Market, Segmentation by Type:

Bend Radius 7.5mm

Bend Radius 10mm

Bend Radius 15mm

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Market, Segmentation by Fabrication Process:

OVD

PCVD

Others

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Market, Segmentation by

Coating Diameter:

250 ?m

200 ?m

180 ?m

Others

Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Market, Segmentation by Application:

Data Center

UAV

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Bend-Insensitive Single-Mode Fiber (G.657.A2) market?
2. What is the demand of the global Bend-Insensitive Single-Mode Fiber (G.657.A2) market?
3. What is the year over year growth of the global Bend-Insensitive Single-Mode Fiber (G.657.A2) market?
4. What is the production and production value of the global Bend-Insensitive Single-Mode Fiber (G.657.A2) market?
5. Who are the key producers in the global Bend-Insensitive Single-Mode Fiber (G.657.A2) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Bend-Insensitive Single-Mode Fiber (G.657.A2) Introduction
- 1.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Supply & Forecast
 - 1.2.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032)
 - 1.2.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Pricing Trends (2021-2032)
- 1.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Region (Based on Production Site)
 - 1.3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Region (2021-2032)
 - 1.3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Region (2021-2032)
 - 1.3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Region (2021-2032)
 - 1.3.4 North America Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032)
 - 1.3.5 Europe Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032)
 - 1.3.6 China Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032)
 - 1.3.7 Japan Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Bend-Insensitive Single-Mode Fiber (G.657.A2) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Demand (2021-2032)
- 2.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption by Region
 - 2.2.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption by Region (2021-2026)
 - 2.2.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Forecast by Region (2027-2032)
- 2.3 United States Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)

- 2.4 China Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)
- 2.5 Europe Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)
- 2.6 Japan Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)
- 2.7 South Korea Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)
- 2.8 ASEAN Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)
- 2.9 India Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Manufacturer (2021-2026)
- 3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Manufacturer (2021-2026)
- 3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Manufacturer (2021-2026)
- 3.4 Bend-Insensitive Single-Mode Fiber (G.657.A2) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Bend-Insensitive Single-Mode Fiber (G.657.A2) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Bend-Insensitive Single-Mode Fiber (G.657.A2) in 2025
- 3.6 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Overall Company Footprint Analysis
 - 3.6.1 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Region Footprint
 - 3.6.2 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Company Product Type Footprint
 - 3.6.3 Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Comparison

4.1.1 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Comparison

4.2.1 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Comparison

4.3.1 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2026)

4.5 China Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers and Market Share

4.5.1 China Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value (2021-2026)

4.5.3 China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2026)

4.6 Rest of World Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Bend Radius 7.5mm

5.2.2 Bend Radius 10mm

5.2.3 Bend Radius 15mm

5.3 Market Segment by Type

5.3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Type (2021-2032)

5.3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Type (2021-2032)

5.3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FABRICATION PROCESS

6.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Size Overview by Fabrication Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Fabrication Process

6.2.1 OVD

6.2.2 PCVD

6.2.3 Others

6.3 Market Segment by Fabrication Process

6.3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Fabrication Process (2021-2032)

6.3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Fabrication Process (2021-2032)

6.3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Fabrication Process (2021-2032)

7 MARKET ANALYSIS BY COATING DIAMETER

7.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Size Overview by Coating Diameter: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Coating Diameter

7.2.1 250 ?m

7.2.2 200 ?m

7.2.3 180 ?m

7.2.4 Others

7.3 Market Segment by Coating Diameter

7.3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Coating Diameter (2021-2032)

7.3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Coating Diameter (2021-2032)

7.3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Coating Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Data Center

8.2.2 UAV

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Application (2021-2032)

8.3.2 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Application (2021-2032)

8.3.3 World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Corning

9.1.1 Corning Details

9.1.2 Corning Major Business

9.1.3 Corning Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.1.4 Corning Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Corning Recent Developments/Updates
- 9.1.6 Corning Competitive Strengths & Weaknesses
- 9.2 Sumitomo Electric
 - 9.2.1 Sumitomo Electric Details
 - 9.2.2 Sumitomo Electric Major Business
 - 9.2.3 Sumitomo Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.2.4 Sumitomo Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Sumitomo Electric Recent Developments/Updates
 - 9.2.6 Sumitomo Electric Competitive Strengths & Weaknesses
- 9.3 Fujikura
 - 9.3.1 Fujikura Details
 - 9.3.2 Fujikura Major Business
 - 9.3.3 Fujikura Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.3.4 Fujikura Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Fujikura Recent Developments/Updates
 - 9.3.6 Fujikura Competitive Strengths & Weaknesses
- 9.4 Prysmian
 - 9.4.1 Prysmian Details
 - 9.4.2 Prysmian Major Business
 - 9.4.3 Prysmian Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.4.4 Prysmian Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Prysmian Recent Developments/Updates
 - 9.4.6 Prysmian Competitive Strengths & Weaknesses
- 9.5 Furukawa Electric
 - 9.5.1 Furukawa Electric Details
 - 9.5.2 Furukawa Electric Major Business
 - 9.5.3 Furukawa Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.5.4 Furukawa Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Furukawa Electric Recent Developments/Updates
 - 9.5.6 Furukawa Electric Competitive Strengths & Weaknesses
- 9.6 Sterlite Technologies Limited
 - 9.6.1 Sterlite Technologies Limited Details
 - 9.6.2 Sterlite Technologies Limited Major Business

9.6.3 Sterlite Technologies Limited Bend-Insensitive Single-Mode Fiber (G.657.A2)
Product and Services

9.6.4 Sterlite Technologies Limited Bend-Insensitive Single-Mode Fiber (G.657.A2)
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Sterlite Technologies Limited Recent Developments/Updates

9.6.6 Sterlite Technologies Limited Competitive Strengths & Weaknesses

9.7 YOFC

9.7.1 YOFC Details

9.7.2 YOFC Major Business

9.7.3 YOFC Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.7.4 YOFC Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.7.5 YOFC Recent Developments/Updates

9.7.6 YOFC Competitive Strengths & Weaknesses

9.8 Hengtong Group

9.8.1 Hengtong Group Details

9.8.2 Hengtong Group Major Business

9.8.3 Hengtong Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and
Services

9.8.4 Hengtong Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Production,
Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Hengtong Group Recent Developments/Updates

9.8.6 Hengtong Group Competitive Strengths & Weaknesses

9.9 ZTT Group

9.9.1 ZTT Group Details

9.9.2 ZTT Group Major Business

9.9.3 ZTT Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and
Services

9.9.4 ZTT Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price,
Value, Gross Margin and Market Share (2021-2026)

9.9.5 ZTT Group Recent Developments/Updates

9.9.6 ZTT Group Competitive Strengths & Weaknesses

9.10 Wuhan Fenghuo Ruituo Technology Co., Ltd.

9.10.1 Wuhan Fenghuo Ruituo Technology Co., Ltd. Details

9.10.2 Wuhan Fenghuo Ruituo Technology Co., Ltd. Major Business

9.10.3 Wuhan Fenghuo Ruituo Technology Co., Ltd. Bend-Insensitive Single-Mode
Fiber (G.657.A2) Product and Services

9.10.4 Wuhan Fenghuo Ruituo Technology Co., Ltd. Bend-Insensitive Single-Mode
Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Wuhan Fenghuo Ruituo Technology Co., Ltd. Recent Developments/Updates
- 9.10.6 Wuhan Fenghuo Ruituo Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd.
 - 9.11.1 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Details
 - 9.11.2 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Major Business
 - 9.11.3 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.11.4 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Recent Developments/Updates
 - 9.11.6 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.12 Far East Smart Energy
 - 9.12.1 Far East Smart Energy Details
 - 9.12.2 Far East Smart Energy Major Business
 - 9.12.3 Far East Smart Energy Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.12.4 Far East Smart Energy Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Far East Smart Energy Recent Developments/Updates
 - 9.12.6 Far East Smart Energy Competitive Strengths & Weaknesses
- 9.13 Tongding Interconnection Information Co., Ltd.
 - 9.13.1 Tongding Interconnection Information Co., Ltd. Details
 - 9.13.2 Tongding Interconnection Information Co., Ltd. Major Business
 - 9.13.3 Tongding Interconnection Information Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
 - 9.13.4 Tongding Interconnection Information Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Tongding Interconnection Information Co., Ltd. Recent Developments/Updates
 - 9.13.6 Tongding Interconnection Information Co., Ltd. Competitive Strengths & Weaknesses
- 9.14 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.
 - 9.14.1 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Details
 - 9.14.2 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Major Business
 - 9.14.3 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.14.4 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Recent Developments/Updates

9.14.6 Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Competitive Strengths & Weaknesses

9.15 Futong Group Co., Ltd.

9.15.1 Futong Group Co., Ltd. Details

9.15.2 Futong Group Co., Ltd. Major Business

9.15.3 Futong Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.15.4 Futong Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Futong Group Co., Ltd. Recent Developments/Updates

9.15.6 Futong Group Co., Ltd. Competitive Strengths & Weaknesses

9.16 Putian Cable Group Co., Ltd.

9.16.1 Putian Cable Group Co., Ltd. Details

9.16.2 Putian Cable Group Co., Ltd. Major Business

9.16.3 Putian Cable Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.16.4 Putian Cable Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Putian Cable Group Co., Ltd. Recent Developments/Updates

9.16.6 Putian Cable Group Co., Ltd. Competitive Strengths & Weaknesses

9.17 Weihai Changhe Optical Guide Technology Co., Ltd.

9.17.1 Weihai Changhe Optical Guide Technology Co., Ltd. Details

9.17.2 Weihai Changhe Optical Guide Technology Co., Ltd. Major Business

9.17.3 Weihai Changhe Optical Guide Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

9.17.4 Weihai Changhe Optical Guide Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Weihai Changhe Optical Guide Technology Co., Ltd. Recent Developments/Updates

9.17.6 Weihai Changhe Optical Guide Technology Co., Ltd. Competitive Strengths & Weaknesses

9.18 Twentsche (Nanjing) Fibre Optics Ltd.

9.18.1 Twentsche (Nanjing) Fibre Optics Ltd. Details

- 9.18.2 Twentsche (Nanjing) Fibre Optics Ltd. Major Business
- 9.18.3 Twentsche (Nanjing) Fibre Optics Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
- 9.18.4 Twentsche (Nanjing) Fibre Optics Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Twentsche (Nanjing) Fibre Optics Ltd. Recent Developments/Updates
- 9.18.6 Twentsche (Nanjing) Fibre Optics Ltd. Competitive Strengths & Weaknesses
- 9.19 Kingsignal Technology Co., Ltd.
- 9.19.1 Kingsignal Technology Co., Ltd. Details
- 9.19.2 Kingsignal Technology Co., Ltd. Major Business
- 9.19.3 Kingsignal Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
- 9.19.4 Kingsignal Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Kingsignal Technology Co., Ltd. Recent Developments/Updates
- 9.19.6 Kingsignal Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.20 Furukawa Electric Xi'an Optical Communication Co., Ltd.
- 9.20.1 Furukawa Electric Xi'an Optical Communication Co., Ltd. Details
- 9.20.2 Furukawa Electric Xi'an Optical Communication Co., Ltd. Major Business
- 9.20.3 Furukawa Electric Xi'an Optical Communication Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services
- 9.20.4 Furukawa Electric Xi'an Optical Communication Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 Furukawa Electric Xi'an Optical Communication Co., Ltd. Recent Developments/Updates
- 9.20.6 Furukawa Electric Xi'an Optical Communication Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Bend-Insensitive Single-Mode Fiber (G.657.A2) Industry Chain
- 10.2 Bend-Insensitive Single-Mode Fiber (G.657.A2) Upstream Analysis
 - 10.2.1 Bend-Insensitive Single-Mode Fiber (G.657.A2) Core Raw Materials
 - 10.2.2 Main Manufacturers of Bend-Insensitive Single-Mode Fiber (G.657.A2) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Mode

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

10.7 Bend-Insensitive Single-Mode Fiber (G.657.A2) Industry Sales Model and Sales Channels

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

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

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Region (2021-2026)

Table 5. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Region (2027-2032)

Table 6. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Region (2021-2026) & (M Fiber-km)

Table 7. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Region (2027-2032) & (M Fiber-km)

Table 8. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Region (2021-2026)

Table 9. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Region (2027-2032)

Table 10. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Region (2021-2026) & (US\$/Fiber-km)

Table 11. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Region (2027-2032) & (US\$/Fiber-km)

Table 12. Bend-Insensitive Single-Mode Fiber (G.657.A2) Major Market Trends

Table 13. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Fiber-km)

Table 14. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption by Region (2021-2026) & (M Fiber-km)

Table 15. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Forecast by Region (2027-2032) & (M Fiber-km)

Table 16. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Bend-Insensitive Single-Mode Fiber (G.657.A2) Producers in 2025

Table 18. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Manufacturer (2021-2026) & (M Fiber-km)

Table 19. Production Market Share of Key Bend-Insensitive Single-Mode Fiber (G.657.A2) Producers in 2025

Table 20. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Manufacturer (2021-2026) & (US\$/Fiber-km)

Table 21. Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Company Evaluation Quadrant

Table 22. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Site of Key Manufacturer

Table 24. Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Company Product Type Footprint

Table 25. Bend-Insensitive Single-Mode Fiber (G.657.A2) Market: Company Product Application Footprint

Table 26. Bend-Insensitive Single-Mode Fiber (G.657.A2) Competitive Factors

Table 27. Bend-Insensitive Single-Mode Fiber (G.657.A2) New Entrant and Capacity Expansion Plans

Table 28. Bend-Insensitive Single-Mode Fiber (G.657.A2) Mergers & Acquisitions Activity

Table 29. United States VS China Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 31. United States VS China Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 32. United States Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2026) & (M Fiber-km)

Table 36. United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share (2021-2026)

Table 37. China Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, (2021-2026) & (M Fiber-km)

Table 41. China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share (2021-2026)

Table 42. Rest of World Based Bend-Insensitive Single-Mode Fiber (G.657.A2) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production, (2021-2026) & (M Fiber-km)

Table 46. Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share (2021-2026)

Table 47. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Type (2021-2026) & (M Fiber-km)

Table 49. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Type (2027-2032) & (M Fiber-km)

Table 50. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Type (2021-2026) & (US\$/Fiber-km)

Table 53. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Type (2027-2032) & (US\$/Fiber-km)

Table 54. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Fabrication Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Fabrication Process (2021-2026) & (M Fiber-km)

Table 56. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Fabrication Process (2027-2032) & (M Fiber-km)

Table 57. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Fabrication Process (2021-2026) & (USD Million)

Table 58. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by

Fabrication Process (2027-2032) & (USD Million)

Table 59. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Fabrication Process (2021-2026) & (US\$/Fiber-km)

Table 60. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Fabrication Process (2027-2032) & (US\$/Fiber-km)

Table 61. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Coating Diameter (2021-2026) & (M Fiber-km)

Table 63. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Coating Diameter (2027-2032) & (M Fiber-km)

Table 64. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Coating Diameter (2021-2026) & (USD Million)

Table 65. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Coating Diameter (2027-2032) & (USD Million)

Table 66. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Coating Diameter (2021-2026) & (US\$/Fiber-km)

Table 67. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Coating Diameter (2027-2032) & (US\$/Fiber-km)

Table 68. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Application (2021-2026) & (M Fiber-km)

Table 70. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production by Application (2027-2032) & (M Fiber-km)

Table 71. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Application (2021-2026) & (US\$/Fiber-km)

Table 74. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Application (2027-2032) & (US\$/Fiber-km)

Table 75. Corning Basic Information, Manufacturing Base and Competitors

Table 76. Corning Major Business

Table 77. Corning Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 78. Corning Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Corning Recent Developments/Updates

Table 80. Corning Competitive Strengths & Weaknesses

Table 81. Sumitomo Electric Basic Information, Manufacturing Base and Competitors

Table 82. Sumitomo Electric Major Business

Table 83. Sumitomo Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 84. Sumitomo Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sumitomo Electric Recent Developments/Updates

Table 86. Sumitomo Electric Competitive Strengths & Weaknesses

Table 87. Fujikura Basic Information, Manufacturing Base and Competitors

Table 88. Fujikura Major Business

Table 89. Fujikura Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 90. Fujikura Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Fujikura Recent Developments/Updates

Table 92. Fujikura Competitive Strengths & Weaknesses

Table 93. Prysmian Basic Information, Manufacturing Base and Competitors

Table 94. Prysmian Major Business

Table 95. Prysmian Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 96. Prysmian Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Prysmian Recent Developments/Updates

Table 98. Prysmian Competitive Strengths & Weaknesses

Table 99. Furukawa Electric Basic Information, Manufacturing Base and Competitors

Table 100. Furukawa Electric Major Business

Table 101. Furukawa Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 102. Furukawa Electric Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Furukawa Electric Recent Developments/Updates

Table 104. Furukawa Electric Competitive Strengths & Weaknesses

Table 105. Sterlite Technologies Limited Basic Information, Manufacturing Base and Competitors

Table 106. Sterlite Technologies Limited Major Business

Table 107. Sterlite Technologies Limited Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 108. Sterlite Technologies Limited Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sterlite Technologies Limited Recent Developments/Updates

Table 110. Sterlite Technologies Limited Competitive Strengths & Weaknesses

Table 111. YOFC Basic Information, Manufacturing Base and Competitors

Table 112. YOFC Major Business

Table 113. YOFC Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 114. YOFC Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. YOFC Recent Developments/Updates

Table 116. YOFC Competitive Strengths & Weaknesses

Table 117. Hengtong Group Basic Information, Manufacturing Base and Competitors

Table 118. Hengtong Group Major Business

Table 119. Hengtong Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 120. Hengtong Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hengtong Group Recent Developments/Updates

Table 122. Hengtong Group Competitive Strengths & Weaknesses

Table 123. ZTT Group Basic Information, Manufacturing Base and Competitors

Table 124. ZTT Group Major Business

Table 125. ZTT Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 126. ZTT Group Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. ZTT Group Recent Developments/Updates

Table 128. ZTT Group Competitive Strengths & Weaknesses

Table 129. Wuhan Fenghuo Ruituo Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Wuhan Fenghuo Ruituo Technology Co., Ltd. Major Business

Table 131. Wuhan Fenghuo Ruituo Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 132. Wuhan Fenghuo Ruituo Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Wuhan Fenghuo Ruituo Technology Co., Ltd. Recent Developments/Updates

Table 134. Wuhan Fenghuo Ruituo Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Major Business

Table 137. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 138. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Recent Developments/Updates

Table 140. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Far East Smart Energy Basic Information, Manufacturing Base and Competitors

Table 142. Far East Smart Energy Major Business

Table 143. Far East Smart Energy Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 144. Far East Smart Energy Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Far East Smart Energy Recent Developments/Updates

Table 146. Far East Smart Energy Competitive Strengths & Weaknesses

Table 147. Tongding Interconnection Information Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Tongding Interconnection Information Co., Ltd. Major Business

Table 149. Tongding Interconnection Information Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 150. Tongding Interconnection Information Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Tongding Interconnection Information Co., Ltd. Recent Developments/Updates

Table 152. Tongding Interconnection Information Co., Ltd. Competitive Strengths & Weaknesses

Table 153. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Major Business

Table 155. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 156. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Recent Developments/Updates

Table 158. Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd. Competitive Strengths & Weaknesses

Table 159. Futong Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 160. Futong Group Co., Ltd. Major Business

Table 161. Futong Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 162. Futong Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Futong Group Co., Ltd. Recent Developments/Updates

Table 164. Futong Group Co., Ltd. Competitive Strengths & Weaknesses

Table 165. Putian Cable Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Putian Cable Group Co., Ltd. Major Business

Table 167. Putian Cable Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 168. Putian Cable Group Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Putian Cable Group Co., Ltd. Recent Developments/Updates

Table 170. Putian Cable Group Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Weihai Changhe Optical Guide Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Weihai Changhe Optical Guide Technology Co., Ltd. Major Business

Table 173. Weihai Changhe Optical Guide Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 174. Weihai Changhe Optical Guide Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Weihai Changhe Optical Guide Technology Co., Ltd. Recent Developments/Updates

Table 176. Weihai Changhe Optical Guide Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Twentsche (Nanjing) Fibre Optics Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Twentsche (Nanjing) Fibre Optics Ltd. Major Business

Table 179. Twentsche (Nanjing) Fibre Optics Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 180. Twentsche (Nanjing) Fibre Optics Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Twentsche (Nanjing) Fibre Optics Ltd. Recent Developments/Updates

Table 182. Twentsche (Nanjing) Fibre Optics Ltd. Competitive Strengths & Weaknesses

Table 183. Kingsignal Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Kingsignal Technology Co., Ltd. Major Business

Table 185. Kingsignal Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 186. Kingsignal Technology Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Kingsignal Technology Co., Ltd. Recent Developments/Updates

Table 188. Kingsignal Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Furukawa Electric Xi'an Optical Communication Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 190. Furukawa Electric Xi'an Optical Communication Co., Ltd. Major Business

Table 191. Furukawa Electric Xi'an Optical Communication Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Product and Services

Table 192. Furukawa Electric Xi'an Optical Communication Co., Ltd. Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Furukawa Electric Xi'an Optical Communication Co., Ltd. Recent Developments/Updates

Table 194. Furukawa Electric Xi'an Optical Communication Co., Ltd. Competitive Strengths & Weaknesses

Table 195. Global Key Players of Bend-Insensitive Single-Mode Fiber (G.657.A2) Upstream (Raw Materials)

Table 196. Global Bend-Insensitive Single-Mode Fiber (G.657.A2) Typical Customers

Table 197. Bend-Insensitive Single-Mode Fiber (G.657.A2) Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Bend-Insensitive Single-Mode Fiber (G.657.A2) Picture
- Figure 2. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032) & (M Fiber-km)
- Figure 5. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price (2021-2032) & (US\$/Fiber-km)
- Figure 6. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Region (2021-2032)
- Figure 7. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Region (2021-2032)
- Figure 8. North America Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032) & (M Fiber-km)
- Figure 9. Europe Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032) & (M Fiber-km)
- Figure 10. China Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032) & (M Fiber-km)
- Figure 11. Japan Bend-Insensitive Single-Mode Fiber (G.657.A2) Production (2021-2032) & (M Fiber-km)
- Figure 12. Bend-Insensitive Single-Mode Fiber (G.657.A2) Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)
- Figure 15. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Market Share by Region (2021-2032)
- Figure 16. United States Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)
- Figure 17. China Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)
- Figure 18. Europe Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)
- Figure 19. Japan Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)

Figure 20. South Korea Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)

Figure 21. ASEAN Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)

Figure 22. India Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption (2021-2032) & (M Fiber-km)

Figure 23. Producer Shipments of Bend-Insensitive Single-Mode Fiber (G.657.A2) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Bend-Insensitive Single-Mode Fiber (G.657.A2) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Bend-Insensitive Single-Mode Fiber (G.657.A2) Markets in 2025

Figure 26. United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Bend-Insensitive Single-Mode Fiber (G.657.A2) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share 2025

Figure 30. China Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share 2025

Figure 32. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Type in 2025

Figure 34. Bend Radius 7.5mm

Figure 35. Bend Radius 10mm

Figure 36. Bend Radius 15mm

Figure 37. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Type (2021-2032)

Figure 38. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Type (2021-2032)

Figure 39. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Type (2021-2032) & (US\$/Fiber-km)

Figure 40. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Fabrication Process, (USD Million), 2021 & 2025 & 2032

Figure 41. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Fabrication Process in 2025

Figure 42. OVD

Figure 43. PCVD

Figure 44. Others

Figure 45. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Fabrication Process (2021-2032)

Figure 46. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Fabrication Process (2021-2032)

Figure 47. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Fabrication Process (2021-2032) & (US\$/Fiber-km)

Figure 48. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Figure 49. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Coating Diameter in 2025

Figure 50. 250 ?m

Figure 51. 200 ?m

Figure 52. 180 ?m

Figure 53. Others

Figure 54. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Coating Diameter (2021-2032)

Figure 55. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Coating Diameter (2021-2032)

Figure 56. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Coating Diameter (2021-2032) & (US\$/Fiber-km)

Figure 57. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Application in 2025

Figure 59. Data Center

Figure 60. UAV

Figure 61. Others

Figure 62. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Market Share by Application (2021-2032)

Figure 63. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Production Value Market Share by Application (2021-2032)

Figure 64. World Bend-Insensitive Single-Mode Fiber (G.657.A2) Average Price by Application (2021-2032) & (US\$/Fiber-km)

Figure 65. Bend-Insensitive Single-Mode Fiber (G.657.A2) Industry Chain

Figure 66. Bend-Insensitive Single-Mode Fiber (G.657.A2) Procurement Model

Figure 67. Bend-Insensitive Single-Mode Fiber (G.657.A2) Sales Model

Figure 68. Bend-Insensitive Single-Mode Fiber (G.657.A2) Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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