

Global AI Data Center Optical Fiber (AIDC Fiber) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Data Center Optical Fiber (AIDC Fiber) market size is expected to reach \$ 4301 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

AI Data Center Optical Fiber (AIDC Fiber) refers to optical fiber products designed for internal and cross-data center high-speed interconnects in AI compute clusters, high-performance cloud data centers, and internet data centers. It encompasses multimode and single-mode fibers, bend-insensitive and low-loss fibers, to meet the bandwidth, low latency, low loss, and high-density cabling requirements of 400G, 800G, 1.6T, and higher optical modules. Serving as the "neural network" infrastructure of data centers, AIDC fiber is primarily used for server-to-switch interconnects within racks, rack-to-rack links, and data hall backbone connections, while supporting high-density MPO/MTP and other efficient termination schemes.

Driven by AI and cloud computing, AIDC fibers not only carry large-scale east-west traffic at high speeds but also must maintain excellent bend performance, low insertion loss, and long-term reliability in high-density deployment scenarios. Compared with traditional data center fiber, the increased fiber demand generated by GPU clusters in AI data centers is reshaping the optical fiber market, making high-end data center fibers one of the fastest-growing segments in the optical communications industry. The share of AI data center fiber in the global optical fiber market is projected to rise rapidly from less than 5% in 2024 to approximately 30%-35% by 2027. In 2025, global AI Data Center Optical Fiber (AIDC Fiber) shipments reached approximately 107 million fiber-km, with an average price of about USD 7.14 per fiber-km and a gross margin of around 40%.

The deployment of AI foundation model training clusters, large-scale GPU clusters, and high-performance cloud data centers is accelerating demand for AIDC optical fiber. In high-density rack and data center environments, fibers with bend insensitivity, low loss, and small coating diameters have become essential, driving rapid development of high-end single-mode and multimode fibers.

The industry faces challenges such as constrained production capacity of high-end fibers, long upstream preform and raw material supply cycles, and limited manufacturing and delivery capabilities. High-density MPO/MTP termination and complex cabling solutions also place higher requirements on manufacturer design, quality control, and delivery performance.

AIDC optical fiber is reshaping the growth logic of the optical fiber industry. Compared with traditional cloud data centers, AIDC fiber consumption is higher and deployment density grows exponentially, driving the sector into a super-cycle of rapid growth. Scale-out cluster interconnects and data center interconnects represent the core demand scenarios.

As AI foundation models and large-scale compute clusters are deployed, AIDC optical fiber demand is expected to continue growing rapidly. The industry is moving toward high-density, high-performance, low-loss, bend-insensitive, and hybrid multimode/single-mode solutions to meet the requirements of next-generation AI data center upgrades and cross-data center interconnects.

This report studies the global AI Data Center Optical Fiber (AIDC Fiber) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Data Center Optical Fiber (AIDC Fiber) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Data Center Optical Fiber (AIDC Fiber) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Optical Fiber (AIDC Fiber) total production and demand, 2021-2032, (M Fiber-km)

Global AI Data Center Optical Fiber (AIDC Fiber) total production value, 2021-2032, (USD Million)

Global AI Data Center Optical Fiber (AIDC Fiber) production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global AI Data Center Optical Fiber (AIDC Fiber) consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

U.S. VS China: AI Data Center Optical Fiber (AIDC Fiber) domestic production, consumption, key domestic manufacturers and share

Global AI Data Center Optical Fiber (AIDC Fiber) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global AI Data Center Optical Fiber (AIDC Fiber) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global AI Data Center Optical Fiber (AIDC Fiber) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global AI Data Center Optical Fiber (AIDC Fiber) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Corning, Sumitomo Electric, Fujikura, Prysmian, Furukawa Electric, Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.), 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 AI Data Center Optical Fiber (AIDC Fiber) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Fiber-km) and average price (US\$/Fiber-km) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Data Center Optical Fiber (AIDC Fiber) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Data Center Optical Fiber (AIDC Fiber) Market, Segmentation by Type:

Bend Radius 7.5mm

Bend Radius 10mm

Bend Radius 15mm

Others

Global AI Data Center Optical Fiber (AIDC Fiber) Market, Segmentation by Fiber Optic Technology:

G.657.A1

G.657.A2

G.652.D

Other(G.654.E,hollow-core fiber,etc.)

Global AI Data Center Optical Fiber (AIDC Fiber) Market, Segmentation by Coating

Diameter:

250 ?m

200 ?m

180 ?m

Others

Global AI Data Center Optical Fiber (AIDC Fiber) Market, Segmentation by Application:

Scale-Up Interconnect

Scale-Out Interconnect

Data Center Interconnect

Others

Companies Profiled:

Corning

Sumitomo Electric

Fujikura

Prysmian

Furukawa Electric

Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.)

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.

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.

Jiangsu Etern Optical Fiber Technology Co., Ltd

Key Questions Answered:

1. How big is the global AI Data Center Optical Fiber (AIDC Fiber) market?
2. What is the demand of the global AI Data Center Optical Fiber (AIDC Fiber) market?
3. What is the year over year growth of the global AI Data Center Optical Fiber (AIDC Fiber) market?
4. What is the production and production value of the global AI Data Center Optical Fiber (AIDC Fiber) market?
5. Who are the key producers in the global AI Data Center Optical Fiber (AIDC Fiber) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World AI Data Center Optical Fiber (AIDC Fiber) Demand (2021-2032)
- 2.2 World AI Data Center Optical Fiber (AIDC Fiber) Consumption by Region
 - 2.2.1 World AI Data Center Optical Fiber (AIDC Fiber) Consumption by Region (2021-2026)
 - 2.2.2 World AI Data Center Optical Fiber (AIDC Fiber) Consumption Forecast by Region (2027-2032)
- 2.3 United States AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)
- 2.4 China AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)
- 2.5 Europe AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)
- 2.6 Japan AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)

2.7 South Korea AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)

2.8 ASEAN AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)

2.9 India AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Manufacturer (2021-2026)

3.2 World AI Data Center Optical Fiber (AIDC Fiber) Production by Manufacturer (2021-2026)

3.3 World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Manufacturer (2021-2026)

3.4 AI Data Center Optical Fiber (AIDC Fiber) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global AI Data Center Optical Fiber (AIDC Fiber) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for AI Data Center Optical Fiber (AIDC Fiber) in 2025

3.5.3 Global Concentration Ratios (CR8) for AI Data Center Optical Fiber (AIDC Fiber) in 2025

3.6 AI Data Center Optical Fiber (AIDC Fiber) Market: Overall Company Footprint Analysis

3.6.1 AI Data Center Optical Fiber (AIDC Fiber) Market: Region Footprint

3.6.2 AI Data Center Optical Fiber (AIDC Fiber) Market: Company Product Type Footprint

3.6.3 AI Data Center Optical Fiber (AIDC Fiber) 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: AI Data Center Optical Fiber (AIDC Fiber) Production Value Comparison

4.1.1 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Comparison

4.2.1 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Consumption Comparison

4.3.1 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value (2021-2026)

4.4.3 United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2026)

4.5 China Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers and Market Share

4.5.1 China Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value (2021-2026)

4.5.3 China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2026)

4.6 Rest of World Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World AI Data Center Optical Fiber (AIDC Fiber) 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

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World AI Data Center Optical Fiber (AIDC Fiber) Production by Type (2021-2032)

5.3.2 World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Type (2021-2032)

5.3.3 World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FIBER OPTIC TECHNOLOGY

6.1 World AI Data Center Optical Fiber (AIDC Fiber) Market Size Overview by Fiber Optic Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Fiber Optic Technology

6.2.1 G.657.A1

6.2.2 G.657.A2

6.2.3 G.652.D

6.2.4 Other(G.654.E,hollow-core fiber,etc.)

6.3 Market Segment by Fiber Optic Technology

6.3.1 World AI Data Center Optical Fiber (AIDC Fiber) Production by Fiber Optic Technology (2021-2032)

6.3.2 World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Fiber Optic Technology (2021-2032)

6.3.3 World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Fiber Optic Technology (2021-2032)

7 MARKET ANALYSIS BY COATING DIAMETER

7.1 World AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Production by Coating Diameter (2021-2032)

7.3.2 World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Coating Diameter (2021-2032)

7.3.3 World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Coating Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI Data Center Optical Fiber (AIDC Fiber) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Scale-Up Interconnect

8.2.2 Scale-Out Interconnect

8.2.3 Data Center Interconnect

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World AI Data Center Optical Fiber (AIDC Fiber) Production by Application (2021-2032)

8.3.2 World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Application (2021-2032)

8.3.3 World AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.1.4 Corning AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
 - 9.2.4 Sumitomo Electric AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
 - 9.3.4 Fujikura AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
 - 9.4.4 Prysmian AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
 - 9.5.4 Furukawa Electric AI Data Center Optical Fiber (AIDC Fiber) 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 (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.)
 - 9.6.1 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Details
 - 9.6.2 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co.,

Ltd.) Major Business

9.6.3 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.6.4 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Recent Developments/Updates

9.6.6 Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Competitive Strengths & Weaknesses

9.7 YOFC

9.7.1 YOFC Details

9.7.2 YOFC Major Business

9.7.3 YOFC AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.7.4 YOFC AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.8.4 Hengtong Group AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.9.4 ZTT Group AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.10.4 Wuhan Fenghuo Ruituo Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.11.4 Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.12.4 Far East Smart Energy AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.13.4 Tongding Interconnection Information Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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 Futong Group Co., Ltd.

9.14.1 Futong Group Co., Ltd. Details

9.14.2 Futong Group Co., Ltd. Major Business

9.14.3 Futong Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.14.4 Futong Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.15 Putian Cable Group Co., Ltd.

9.15.1 Putian Cable Group Co., Ltd. Details

9.15.2 Putian Cable Group Co., Ltd. Major Business

9.15.3 Putian Cable Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.15.4 Putian Cable Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.16 Weihai Changhe Optical Guide Technology Co., Ltd.

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

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

9.16.3 Weihai Changhe Optical Guide Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.16.4 Weihai Changhe Optical Guide Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.17 Twentsche (Nanjing) Fibre Optics Ltd.

9.17.1 Twentsche (Nanjing) Fibre Optics Ltd. Details

9.17.2 Twentsche (Nanjing) Fibre Optics Ltd. Major Business

9.17.3 Twentsche (Nanjing) Fibre Optics Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.17.4 Twentsche (Nanjing) Fibre Optics Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.18 Kingsignal Technology Co., Ltd.

9.18.1 Kingsignal Technology Co., Ltd. Details

9.18.2 Kingsignal Technology Co., Ltd. Major Business

9.18.3 Kingsignal Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.18.4 Kingsignal Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Kingsignal Technology Co., Ltd. Recent Developments/Updates

9.18.6 Kingsignal Technology Co., Ltd. Competitive Strengths & Weaknesses

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

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

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

9.19.3 Furukawa Electric Xi'an Optical Communication Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.19.4 Furukawa Electric Xi'an Optical Communication Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.20 Jiangsu Etern Optical Fiber Technology Co., Ltd

9.20.1 Jiangsu Etern Optical Fiber Technology Co., Ltd Details

9.20.2 Jiangsu Etern Optical Fiber Technology Co., Ltd Major Business

9.20.3 Jiangsu Etern Optical Fiber Technology Co., Ltd AI Data Center Optical Fiber (AIDC Fiber) Product and Services

9.20.4 Jiangsu Etern Optical Fiber Technology Co., Ltd AI Data Center Optical Fiber (AIDC Fiber) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Jiangsu Etern Optical Fiber Technology Co., Ltd Recent Developments/Updates

9.20.6 Jiangsu Etern Optical Fiber Technology Co., Ltd Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 AI Data Center Optical Fiber (AIDC Fiber) Industry Chain

10.2 AI Data Center Optical Fiber (AIDC Fiber) Upstream Analysis

10.2.1 AI Data Center Optical Fiber (AIDC Fiber) Core Raw Materials

10.2.2 Main Manufacturers of AI Data Center Optical Fiber (AIDC Fiber) Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 AI Data Center Optical Fiber (AIDC Fiber) Production Mode

10.6 AI Data Center Optical Fiber (AIDC Fiber) Procurement Model

10.7 AI Data Center Optical Fiber (AIDC Fiber) Industry Sales Model and Sales Channels

10.7.1 AI Data Center Optical Fiber (AIDC Fiber) Sales Model

10.7.2 AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Region (2021-2026)

Table 5. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Region (2027-2032)

Table 6. World AI Data Center Optical Fiber (AIDC Fiber) Production by Region (2021-2026) & (M Fiber-km)

Table 7. World AI Data Center Optical Fiber (AIDC Fiber) Production by Region (2027-2032) & (M Fiber-km)

Table 8. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Region (2021-2026)

Table 9. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Region (2027-2032)

Table 10. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Region (2021-2026) & (US\$/Fiber-km)

Table 11. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Region (2027-2032) & (US\$/Fiber-km)

Table 12. AI Data Center Optical Fiber (AIDC Fiber) Major Market Trends

Table 13. World AI Data Center Optical Fiber (AIDC Fiber) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Fiber-km)

Table 14. World AI Data Center Optical Fiber (AIDC Fiber) Consumption by Region (2021-2026) & (M Fiber-km)

Table 15. World AI Data Center Optical Fiber (AIDC Fiber) Consumption Forecast by Region (2027-2032) & (M Fiber-km)

Table 16. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI Data Center Optical Fiber (AIDC Fiber) Producers in 2025

Table 18. World AI Data Center Optical Fiber (AIDC Fiber) Production by Manufacturer (2021-2026) & (M Fiber-km)

Table 19. Production Market Share of Key AI Data Center Optical Fiber (AIDC Fiber) Producers in 2025

Table 20. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Manufacturer (2021-2026) & (US\$/Fiber-km)

Table 21. Global AI Data Center Optical Fiber (AIDC Fiber) Company Evaluation Quadrant

Table 22. World AI Data Center Optical Fiber (AIDC Fiber) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AI Data Center Optical Fiber (AIDC Fiber) Production Site of Key Manufacturer

Table 24. AI Data Center Optical Fiber (AIDC Fiber) Market: Company Product Type Footprint

Table 25. AI Data Center Optical Fiber (AIDC Fiber) Market: Company Product Application Footprint

Table 26. AI Data Center Optical Fiber (AIDC Fiber) Competitive Factors

Table 27. AI Data Center Optical Fiber (AIDC Fiber) New Entrant and Capacity Expansion Plans

Table 28. AI Data Center Optical Fiber (AIDC Fiber) Mergers & Acquisitions Activity

Table 29. United States VS China AI Data Center Optical Fiber (AIDC Fiber) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI Data Center Optical Fiber (AIDC Fiber) Production Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 31. United States VS China AI Data Center Optical Fiber (AIDC Fiber) Consumption Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 32. United States Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2026) & (M Fiber-km)

Table 36. United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share (2021-2026)

Table 37. China Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber)

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production, (2021-2026) & (M Fiber-km)

Table 41. China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share (2021-2026)

Table 42. Rest of World Based AI Data Center Optical Fiber (AIDC Fiber) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production, (2021-2026) & (M Fiber-km)

Table 46. Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share (2021-2026)

Table 47. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AI Data Center Optical Fiber (AIDC Fiber) Production by Type (2021-2026) & (M Fiber-km)

Table 49. World AI Data Center Optical Fiber (AIDC Fiber) Production by Type (2027-2032) & (M Fiber-km)

Table 50. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Type (2021-2026) & (USD Million)

Table 51. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Type (2027-2032) & (USD Million)

Table 52. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Type (2021-2026) & (US\$/Fiber-km)

Table 53. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Type (2027-2032) & (US\$/Fiber-km)

Table 54. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Fiber Optic Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World AI Data Center Optical Fiber (AIDC Fiber) Production by Fiber Optic Technology (2021-2026) & (M Fiber-km)

Table 56. World AI Data Center Optical Fiber (AIDC Fiber) Production by Fiber Optic Technology (2027-2032) & (M Fiber-km)

Table 57. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Fiber Optic Technology (2021-2026) & (USD Million)

Table 58. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Fiber Optic Technology (2027-2032) & (USD Million)

Table 59. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Fiber Optic Technology (2021-2026) & (US\$/Fiber-km)

Table 60. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Fiber Optic Technology (2027-2032) & (US\$/Fiber-km)

Table 61. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World AI Data Center Optical Fiber (AIDC Fiber) Production by Coating Diameter (2021-2026) & (M Fiber-km)

Table 63. World AI Data Center Optical Fiber (AIDC Fiber) Production by Coating Diameter (2027-2032) & (M Fiber-km)

Table 64. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Coating Diameter (2021-2026) & (USD Million)

Table 65. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Coating Diameter (2027-2032) & (USD Million)

Table 66. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Coating Diameter (2021-2026) & (US\$/Fiber-km)

Table 67. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Coating Diameter (2027-2032) & (US\$/Fiber-km)

Table 68. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AI Data Center Optical Fiber (AIDC Fiber) Production by Application (2021-2026) & (M Fiber-km)

Table 70. World AI Data Center Optical Fiber (AIDC Fiber) Production by Application (2027-2032) & (M Fiber-km)

Table 71. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Application (2021-2026) & (USD Million)

Table 72. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Application (2027-2032) & (USD Million)

Table 73. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Application (2021-2026) & (US\$/Fiber-km)

Table 74. World AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 78. Corning AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
Table 84. Sumitomo Electric AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
Table 90. Fujikura AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
Table 96. Prysmian AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services
Table 102. Furukawa Electric AI Data Center Optical Fiber (AIDC Fiber) 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 (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Basic Information, Manufacturing Base and Competitors
Table 106. Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Major Business

Table 107. Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 108. Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Recent Developments/Updates

Table 110. Sterlite Technologies Limited (Jiangsu Sterlite Tongguang Optical Fiber Co., Ltd.) Competitive Strengths & Weaknesses

Table 111. YOFC Basic Information, Manufacturing Base and Competitors

Table 112. YOFC Major Business

Table 113. YOFC AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 114. YOFC AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 120. Hengtong Group AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 126. ZTT Group AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber

(AIDC Fiber) Product and Services

Table 132. Wuhan Fenghuo Ruituo Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 138. Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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 AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 144. Far East Smart Energy AI Data Center Optical Fiber (AIDC Fiber) 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. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 150. Tongding Interconnection Information Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) 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. Futong Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Futong Group Co., Ltd. Major Business

Table 155. Futong Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 156. Futong Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Futong Group Co., Ltd. Recent Developments/Updates

Table 158. Futong Group Co., Ltd. Competitive Strengths & Weaknesses

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

Table 160. Putian Cable Group Co., Ltd. Major Business

Table 161. Putian Cable Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 162. Putian Cable Group Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Putian Cable Group Co., Ltd. Recent Developments/Updates

Table 164. Putian Cable Group Co., Ltd. Competitive Strengths & Weaknesses

Table 165. Weihai Changhe Optical Guide Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Weihai Changhe Optical Guide Technology Co., Ltd. Major Business

Table 167. Weihai Changhe Optical Guide Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 168. Weihai Changhe Optical Guide Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Weihai Changhe Optical Guide Technology Co., Ltd. Recent Developments/Updates

Table 170. Weihai Changhe Optical Guide Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Twentsche (Nanjing) Fibre Optics Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Twentsche (Nanjing) Fibre Optics Ltd. Major Business

Table 173. Twentsche (Nanjing) Fibre Optics Ltd. AI Data Center Optical Fiber (AIDC

Fiber) Product and Services

Table 174. Twentsche (Nanjing) Fibre Optics Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Twentsche (Nanjing) Fibre Optics Ltd. Recent Developments/Updates

Table 176. Twentsche (Nanjing) Fibre Optics Ltd. Competitive Strengths & Weaknesses

Table 177. Kingsignal Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Kingsignal Technology Co., Ltd. Major Business

Table 179. Kingsignal Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 180. Kingsignal Technology Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Kingsignal Technology Co., Ltd. Recent Developments/Updates

Table 182. Kingsignal Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 183. Furukawa Electric Xi'an Optical Communication Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Furukawa Electric Xi'an Optical Communication Co., Ltd. Major Business

Table 185. Furukawa Electric Xi'an Optical Communication Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 186. Furukawa Electric Xi'an Optical Communication Co., Ltd. AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Furukawa Electric Xi'an Optical Communication Co., Ltd. Recent Developments/Updates

Table 188. Furukawa Electric Xi'an Optical Communication Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Jiangsu Etern Optical Fiber Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 190. Jiangsu Etern Optical Fiber Technology Co., Ltd Major Business

Table 191. Jiangsu Etern Optical Fiber Technology Co., Ltd AI Data Center Optical Fiber (AIDC Fiber) Product and Services

Table 192. Jiangsu Etern Optical Fiber Technology Co., Ltd AI Data Center Optical Fiber (AIDC Fiber) Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Jiangsu Etern Optical Fiber Technology Co., Ltd Recent Developments/Updates

Table 194. Jiangsu Etern Optical Fiber Technology Co., Ltd Competitive Strengths &

Weaknesses

Table 195. Global Key Players of AI Data Center Optical Fiber (AIDC Fiber) Upstream (Raw Materials)

Table 196. Global AI Data Center Optical Fiber (AIDC Fiber) Typical Customers

Table 197. AI Data Center Optical Fiber (AIDC Fiber) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AI Data Center Optical Fiber (AIDC Fiber) Picture

Figure 2. World AI Data Center Optical Fiber (AIDC Fiber) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AI Data Center Optical Fiber (AIDC Fiber) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2032) & (M Fiber-km)

Figure 5. World AI Data Center Optical Fiber (AIDC Fiber) Average Price (2021-2032) & (US\$/Fiber-km)

Figure 6. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Region (2021-2032)

Figure 7. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Region (2021-2032)

Figure 8. North America AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2032) & (M Fiber-km)

Figure 9. Europe AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2032) & (M Fiber-km)

Figure 10. China AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2032) & (M Fiber-km)

Figure 11. Japan AI Data Center Optical Fiber (AIDC Fiber) Production (2021-2032) & (M Fiber-km)

Figure 12. AI Data Center Optical Fiber (AIDC Fiber) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 15. World AI Data Center Optical Fiber (AIDC Fiber) Consumption Market Share by Region (2021-2032)

Figure 16. United States AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 17. China AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 18. Europe AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 19. Japan AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 20. South Korea AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 21. ASEAN AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 22. India AI Data Center Optical Fiber (AIDC Fiber) Consumption (2021-2032) & (M Fiber-km)

Figure 23. Producer Shipments of AI Data Center Optical Fiber (AIDC Fiber) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for AI Data Center Optical Fiber (AIDC Fiber) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for AI Data Center Optical Fiber (AIDC Fiber) Markets in 2025

Figure 26. United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI Data Center Optical Fiber (AIDC Fiber) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share 2025

Figure 30. China Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers AI Data Center Optical Fiber (AIDC Fiber) Production Market Share 2025

Figure 32. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World AI Data Center Optical Fiber (AIDC Fiber) 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. Others

Figure 38. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Type (2021-2032)

Figure 39. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Type (2021-2032)

Figure 40. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Type (2021-2032) & (US\$/Fiber-km)

Figure 41. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Fiber

Optic Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Fiber Optic Technology in 2025

Figure 43. G.657.A1

Figure 44. G.657.A2

Figure 45. G.652.D

Figure 46. Other(G.654.E,hollow-core fiber,etc.)

Figure 47. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Fiber Optic Technology (2021-2032)

Figure 48. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Fiber Optic Technology (2021-2032)

Figure 49. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Fiber Optic Technology (2021-2032) & (US\$/Fiber-km)

Figure 50. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Figure 51. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Coating Diameter in 2025

Figure 52. 250 ?m

Figure 53. 200 ?m

Figure 54. 180 ?m

Figure 55. Others

Figure 56. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Coating Diameter (2021-2032)

Figure 57. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Coating Diameter (2021-2032)

Figure 58. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Coating Diameter (2021-2032) & (US\$/Fiber-km)

Figure 59. World AI Data Center Optical Fiber (AIDC Fiber) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Application in 2025

Figure 61. Scale-Up Interconnect

Figure 62. Scale-Out Interconnect

Figure 63. Data Center Interconnect

Figure 64. Others

Figure 65. World AI Data Center Optical Fiber (AIDC Fiber) Production Market Share by Application (2021-2032)

Figure 66. World AI Data Center Optical Fiber (AIDC Fiber) Production Value Market Share by Application (2021-2032)

Figure 67. World AI Data Center Optical Fiber (AIDC Fiber) Average Price by Application (2021-2032) & (US\$/Fiber-km)

Figure 68. AI Data Center Optical Fiber (AIDC Fiber) Industry Chain

Figure 69. AI Data Center Optical Fiber (AIDC Fiber) Procurement Model

Figure 70. AI Data Center Optical Fiber (AIDC Fiber) Sales Model

Figure 71. AI Data Center Optical Fiber (AIDC Fiber) Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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