

Global AI Data Center Optical Fiber (AIDC Fiber) Market Growth 2026-2032

<https://marketpublishers.com/r/GFD0DE6DED41EN.html>

Date: July 2026

Pages: 136

Price: US\$ 3,660.00 (Single User License)

ID: GFD0DE6DED41EN

Abstracts

The global AI Data Center Optical Fiber (AIDC Fiber) market size is predicted to grow from US\$ 747 million in 2025 to US\$ 4357 million in 2032; it is expected to grow at a CAGR of 21.8% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global AI Data Center Optical Fiber (AIDC Fiber) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Data Center Optical Fiber (AIDC Fiber) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Data Center Optical Fiber (AIDC

Fiber) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Data Center Optical Fiber (AIDC Fiber) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Data Center Optical Fiber (AIDC Fiber).

This report presents a comprehensive overview, market shares, and growth opportunities of AI Data Center Optical Fiber (AIDC Fiber) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Bend Radius 7.5mm

Bend Radius 10mm

Bend Radius 15mm

Others

Segmentation by Fiber Optic Technology:

G.657.A1

G.657.A2

G.652.D

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

Segmentation by Coating Diameter:

250 ?m

200 ?m

180 ?m

Others

Segmentation by Application:

Scale-Up Interconnect

Scale-Out Interconnect

Data Center Interconnect

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Corning

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 Addressed in this Report

What is the 10-year outlook for the global AI Data Center Optical Fiber (AIDC Fiber) market?

What factors are driving AI Data Center Optical Fiber (AIDC Fiber) market growth, globally and by region?

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

How do AI Data Center Optical Fiber (AIDC Fiber) market opportunities vary by end market size?

How does AI Data Center Optical Fiber (AIDC Fiber) break out by Type, by Application?

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