

Global AIDC Optical Cable Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AIDC Optical Cable market size is expected to reach \$ 5105 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

AIDC Optical Cable, namely AI Data Center Optical Cable, refers to finished optical cable products used for high-speed interconnection within AI data centers, intelligent computing centers, high-performance cloud data centers, and across data centers. It uses AIDC optical fiber as the core transmission medium and combines protective jackets, aramid yarn reinforcement, buffer structures, and MPO/MTP or LC termination components to form high-speed physical connection products that can be directly deployed in intra-rack, inter-rack, data hall backbone, and DCI data center interconnection scenarios. AIDC optical cables mainly serve 400G, 800G, 1.6T, and higher-speed optical modules and switching networks, with significantly higher requirements for low insertion loss, low attenuation, bend resistance, high-density cabling, rapid deployment, and long-term reliability than traditional communication optical cables. In 2025, global AIDC optical cable shipments are estimated at approximately 90 million fiber-km, with an average unit price of around USD 12 per fiber-km and a gross margin of approximately 35%-45%.

The large-scale deployment of AI large-scale model training, inference applications, and tens of thousands of GPU clusters is significantly increasing the demand for optical connections within data centers. Compared to traditional cloud data centers, AI data center network architectures rely more heavily on east-west traffic transmission, requiring denser high-speed optical channels between servers, switches, racks, and the data center itself. AIDC optical cables are no longer merely extensions of ordinary communication links, but core components in AI computing infrastructure that carry high-bandwidth, low-latency, and highly reliable interconnects. With the gradual adoption of

800G and 1.6T optical modules, the demand for high-density, low-loss, bend-resistant, and pre-terminated optical cables in data centers will continue to increase.

The growth of AIDC optical cables is not just reflected in increased shipments, but also in improved product specifications and value. AI data centers have higher requirements for optical cable bending radius, coating diameter, connector end-face quality, insertion loss consistency, and termination reliability, driving G.657.A2 high-bend-resistant single-mode optical cables, MPO/MTP pre-terminated optical cables, small-diameter high-density optical cables, data center backbone optical cables, and branch optical cables to become key growth areas. Pre-terminated optical cables reduce on-site construction time and human error in splicing, making them suitable for rapid deployment of large-scale GPU clusters. Low-loss single-mode optical cables and high-density multimode optical cables are suitable for DCI interconnects and short-distance high-speed connections within data centers, respectively.

The main constraints on the AIDC optical cable market come from the supply of key materials such as upstream optical fiber preforms, optical fibers, and aramid fibers, as well as the stringent certification requirements of downstream cloud vendors and data center customers. High-end AIDC optical cables are not simply cable processing products; their performance depends on fiber consistency, termination accuracy, insertion loss control, sheath structure, and volume delivery capabilities. Integrated vendors with capabilities in optical fiber preforms, optical fibers, optical cables, connection components, and data center customer certification have a greater competitive advantage. Small and medium-sized enterprises (SMEs) with only ordinary optical cable processing capabilities may face problems such as long certification cycles, insufficient delivery capacity, and limited profit margins in high-end AIDC orders.

The future development of AIDC optical cables will move towards high density, high performance, modularity, and rapid delivery. On the product side, upgrades will continue to focus on G.657.A2 bend-resistant optical cables, low-loss single-mode optical cables, OM4/OM5 multimode optical cables, MPO/MTP pre-terminated optical cables, small-diameter high-core-count optical cables, and DCI-specific optical cables. On the application side, the core growth scenarios will be scale-out data center interconnects and inter-building interconnects, DCI data center interconnects, and internal interconnects within AI training clusters. In the long term, competition among AIDC optical cable companies will shift from simple capacity competition to comprehensive competition based on fiber performance, termination capabilities, delivery speed, customer certification, and systematic cabling solutions.

This report studies the global AIDC Optical Cable production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AIDC Optical Cable 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 AIDC Optical Cable that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

Global AIDC Optical Cable total production value, 2021-2032, (USD Million)

Global AIDC Optical Cable production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

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

U.S. VS China: AIDC Optical Cable domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global AIDC Optical Cable 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.), Amphenol, YOFC, Hengtong Group, ZTT Group, 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 AIDC Optical Cable 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 AIDC Optical Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AIDC Optical Cable Market, Segmentation by Type:

Single Mode Cable

Multimode Cable

Global AIDC Optical Cable Market, Segmentation by Fiber Optic Technology:

G.657.A1

G.657.A2

G.652.D

Other

Global AIDC Optical Cable Market, Segmentation by Coating Diameter:

Field-Terminated

Pre-terminated

Global AIDC Optical Cable 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.)

Amphenol

YOFC

Hengtong Group

ZTT Group

FiberHome Telecommunication Technologies Co., Ltd.

Far East Smart Energy

Tongding Interconnection Information Co., Ltd.

Futong Group Co., Ltd.

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

Jiangsu Etern Optical Fiber Technology Co., Ltd

Trigiant Group Limited

Putian Cable Group Co., Ltd.

Wang On Group Limited

Twentsche (Nanjing) Fibre Optics Ltd.

Kingsignal Technology Co., Ltd.

Zhejiang Fuchunjiang Photoelectric Technology Co., Ltd.

Key Questions Answered:

1. How big is the global AIDC Optical Cable market?
2. What is the demand of the global AIDC Optical Cable market?
3. What is the year over year growth of the global AIDC Optical Cable market?
4. What is the production and production value of the global AIDC Optical Cable market?
5. Who are the key producers in the global AIDC Optical Cable market?

6. What are the growth factors driving the market demand?

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