

Global AIDC Optical Cable Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G90EF802C173EN.html>

Date: July 2026

Pages: 152

Price: US\$ 3,480.00 (Single User License)

ID: G90EF802C173EN

Abstracts

According to our (Global Info Research) latest study, the global AIDC Optical Cable market size was valued at US\$ 1111 million in 2025 and is forecast to a readjusted size of US\$ 5105 million by 2032 with a CAGR of 20.5% during review period.

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 is a detailed and comprehensive analysis for global AIDC Optical Cable market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AIDC Optical Cable market size and forecasts, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global AIDC Optical Cable market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global AIDC Optical Cable market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Fiber-km), and average selling prices (US\$/Fiber-km), 2021-2032

Global AIDC Optical Cable market shares of main players, shipments in revenue (\$ Million), sales quantity (M Fiber-km), and ASP (US\$/Fiber-km), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AIDC Optical Cable

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AIDC Optical Cable market based on the

following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

AIDC Optical Cable market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Mode Cable

Multimode Cable

Market segment by Fiber Optic Technology

G.657.A1

G.657.A2

G.652.D

Other

Market segment by Coating Diameter

Field-Terminated

Pre-terminated

Market segment by Application

Scale-Up Interconnect

Scale-Out Interconnect

Data Center Interconnect

Others

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AIDC Optical Cable product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AIDC Optical Cable, with price, sales quantity, revenue, and global market share of AIDC Optical Cable from 2021 to 2026.

Chapter 3, the AIDC Optical Cable competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AIDC Optical Cable breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AIDC Optical Cable market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AIDC Optical Cable.

Chapter 14 and 15, to describe AIDC Optical Cable sales channel, distributors, customers, research findings and conclusion.

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