

Global High-Speed Cable Assemblies for AI Data Center and HPC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-Speed Cable Assemblies for AI Data Center and HPC market size was valued at US\$ 3409 million in 2025 and is forecast to a readjusted size of US\$ 8445 million by 2032 with a CAGR of 13.6% during review period.

In 2025, global High-Speed Cable Assemblies for Data Center and HPC production reached approximately 36331.5 K Units, with an average global market price of around 91.2 USD per Unit.

High-Speed Cable Assemblies for Data Center and HPC refer to factory-terminated high-speed cable assemblies used for short-reach to medium-short-reach interconnection in data centers, AI server clusters, high-performance computing systems, cloud infrastructure, storage networks, and high-speed switching fabrics. These products typically integrate pluggable or customized high-speed interfaces such as SFP/SFP28/SFP56, QSFP/QSFP28/QSFP56, QSFP-DD, OSFP, OSFP-XD, CXP, CDFP, or proprietary high-speed connectors at both ends, with high-speed twinax copper cable, low-loss copper pairs, optical fiber, or active electrical/optical conversion structures in between. They are used to support 25G, 50G, 100G, 200G, 400G, 800G and emerging 1.6T data transmission in data center and HPC environments.

High-speed cables for data centers and HPC, with their core characteristics of low transmission latency, low power consumption, high signal integrity, and strong resistance to electromagnetic interference, combined with the structural advantages of high-density integration and adaptability to short-distance high-speed interconnects, effectively solve the industry pain points of traditional interconnect solutions in high-end

computing clusters and supercomputing scenarios, such as high photoelectric conversion loss, large transmission latency, complex cabling redundancy, and high operation and maintenance costs. They are also adaptable to new deployment environments such as liquid cooling and high-density racks, ensuring stable real-time transmission of high-bandwidth, high-throughput computing data. This overcomes the shortcomings of traditional transmission media in supporting the explosive data interaction of AI computing power, making them a core supporting component of high-end computing infrastructure.

The industrialization of artificial intelligence is driving the continuous expansion of computing clusters, accelerating the construction of supercomputing and cloud-based intelligent computing centers, and promoting the continuous iterative upgrades of high-speed interconnect ports for servers and switches. Coupled with the industry trend of energy conservation, carbon reduction, and high-density intensive development in data centers, this is driving the continuous upgrading of high-speed cables towards ultra-high speed, low loss, and high adaptability.

The upstream of High-Speed Cable Assemblies for Data Center and HPC mainly includes high-purity copper/oxygen-free copper conductors, high-speed twinax wires, fluoropolymers and low-dielectric insulation materials, EMI shielding materials, optical fibers, and high-speed connectors such as SFP/QSFP/QSFP-DD/OSFP.

Representative upstream suppliers include Aurubis, Wieland, Mitsubishi Materials, LS Cable & System, Property, Samtec, 3M, Amphenol, Molex, and TE Connectivity. The downstream applications are mainly in data centers and HPC. Downstream users of high-speed cable assemblies for data centers and HPC include hyperscale cloud service providers, AI computing infrastructure operators, HPC/supercomputing centers, network equipment OEMs, server OEMs/ODMs, storage system manufacturers, telecom operators, and large enterprise data centers. Typical users include AWS, Microsoft Azure, Google Cloud, Meta, Oracle Cloud, Alibaba Cloud, Tencent Cloud, ByteDance, and Baidu AI Cloud.

The single-line capacity of high-speed cables for data centers and HPC varies greatly depending on product specifications, technology, and the degree of factory automation. The industry gross profit margin is usually in the range of 30%-40%.

This report is a detailed and comprehensive analysis for global High-Speed Cable Assemblies for AI Data Center and HPC 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 High-Speed Cable Assemblies for AI Data Center and HPC market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Speed Cable Assemblies for AI Data Center and HPC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Speed Cable Assemblies for AI Data Center and HPC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Speed Cable Assemblies for AI Data Center and HPC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 High-Speed Cable Assemblies for AI Data Center and HPC

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 High-Speed Cable Assemblies for AI Data Center and HPC 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 Amphenol

Corporation, Molex, LLC, TE Connectivity Ltd., Volex plc, NVIDIA Corporation, 3M, Coherent Corp, NEC Corporation, Credo Technology Group, ColorChip Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-Speed Cable Assemblies for AI Data Center and HPC 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

DAC

ACC

AEC

AOC

Others

Market segment by Transmission Medium

Copper-based Type

Optical Type

Market segment by Data Rate

100G

200G

400G

800G

Others

Market segment by Application

Data Center

HPC

Major players covered

Amphenol Corporation

Molex, LLC

TE Connectivity Ltd.

Volex plc

NVIDIA Corporatio

3M

Coherent Corp

NEC Corporation

Credo Technology Group

ColorChip Ltd.

Juniper Networks

Proterial, Ltd

BizLink Holding Inc.

Siemon

Legrand

Luxshare Precision Industry

FIT Hon Teng Limited

Zhejiang Zhaolong Interconnect Technology

Shenzhen Lianrui Electronics

Kingsignal Technology

LTK Electric Wire (HuiZhou) Ltd

Shenzhen Yifeiyang Communication Technology

Chengdu New Yisheng Communication Technology

Accelink Technologies

Zhongji Innolight

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 High-Speed Cable Assemblies for AI Data Center and HPC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Speed Cable Assemblies for AI Data Center and HPC, with price, sales quantity, revenue, and global market share of High-Speed Cable Assemblies for AI Data Center and HPC from 2021 to 2026.

Chapter 3, the High-Speed Cable Assemblies for AI Data Center and HPC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Speed Cable Assemblies for AI Data Center and HPC 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 High-Speed Cable Assemblies for AI Data Center and HPC 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 High-Speed Cable Assemblies for AI Data Center and HPC.

Chapter 14 and 15, to describe High-Speed Cable Assemblies for AI Data Center and HPC sales channel, distributors, customers, research findings and

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