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Global High Speed Cables for Data Center and HPC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Speed Cables for Data Center and HPC market size is expected to reach $ 7963 million by 2032, rising at a market growth of 14.3% CAGR during the forecast period (2026-2032).

In 2025, global High Speed Cables for Data Center and HPC production reached approximately 35647.5 K Units, with an average global market price of around 84.5 USD per Unit.

High Speed Cables 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

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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 cables for data centers 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 studies the global High Speed Cables for Data Center and HPC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Speed Cables for Data Center and HPC 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 High Speed

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Cables for Data Center and HPC that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global High Speed Cables for Data Center and HPC total production and demand, 2021-2032, (K Units)
Global High Speed Cables for Data Center and HPC total production value, 2021-2032, (USD Million)
Global High Speed Cables for Data Center and HPC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global High Speed Cables for Data Center and HPC consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: High Speed Cables for Data Center and HPC domestic production, consumption, key domestic manufacturers and share
Global High Speed Cables for Data Center and HPC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global High Speed Cables for Data Center and HPC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global High Speed Cables for Data Center and HPC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Speed Cables for Data Center and HPC 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 Amphenol Corporation, Molex, LLC, TE Connectivity Ltd., Volex plc, NVIDIA Corporatio, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Speed Cables for Data Center and HPC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by

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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 High Speed Cables for Data Center and HPC Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global High Speed Cables for Data Center and HPC Market, Segmentation by Type:

- DAC
- ACC
- AEC
- AOC
- Others

Global High Speed Cables for Data Center and HPC Market, Segmentation by Transmission Medium:

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Copper-based Type

Optical Type

Global High Speed Cables for Data Center and HPC Market, Segmentation by Data Rate:

100G

200G

400G

800G

Others

Global High Speed Cables for Data Center and HPC Market, Segmentation by Application:

Data Center

HPC

Companies Profiled:

Amphenol Corporation

Molex, LLC

TE Connectivity Ltd.

Volex plc

NVIDIA Corporatio

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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

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Key Questions Answered:

1. How big is the global High Speed Cables for Data Center and HPC market?
2. What is the demand of the global High Speed Cables for Data Center and HPC market?
3. What is the year over year growth of the global High Speed Cables for Data Center and HPC market?
4. What is the production and production value of the global High Speed Cables for Data Center and HPC market?
5. Who are the key producers in the global High Speed Cables for Data Center and HPC market?
6. What are the growth factors driving the market demand?

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