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High Speed Cables Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Direct Attach Copper (DAC) Cable and Active Optical Cable (AOC), Active Copper Cable (ACC), PCIe Cable, Active Electrical Cable (AEC), and SAS Cable), Application (Switch to Switch Interconnect, Switch to Server, and Server to Storage Interconnect), and Geography

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Abstracts

The high speed cables market size is expected to reach US$ 24.99 billion by 2031 from 12.90 billion in 2024, at an estimated CAGR of 10.2% from 2025 to 2031.

By Geography the high speed cables market is segmented into North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America. In 2024, Europe held a significant share in the market. According to Data Center Map, Western Europe currently hosts 2,273 data centers across 24 countries, highlighting the region's advanced digital infrastructure and mature colocation market. This extensive network supports a broad range of industries, with a particular concentration of data centers in key financial and economic hubs such as Frankfurt (Germany), London (United Kingdom), Amsterdam (The Netherlands), and Paris (France). These cities represent the primary markets for data center services in Western Europe, largely due to their roles as financial capitals and their strategic importance in global internet traffic routing. High-density colocation facilities in these locations support massive volumes of data exchange, much of which is handled through major internet exchange points (IXPs) such as DE-CIX in Frankfurt, AMS-IX in Amsterdam, and LINX in London. These

exchanges are among the busiest in the world, facilitating low-latency, high-bandwidth connections that are vital to both commercial and consumer digital services.

The expansion of data centers in Western Europe is significantly driving demand for high-speed cable solutions, including fiber optics and advanced copper cabling systems. High-speed cables are essential for maintaining the performance and reliability of data centers, enabling rapid data transmission between servers, storage systems, and network components. Additionally, advanced technologies such as cloud computing, AI, and edge computing are further intensifying the need for robust, scalable, and high-capacity cabling infrastructure. As Western Europe's digital economy continues to evolve, investment in high-speed cabling is expected to rise in parallel, positioning the region as a major contributor to the global high-speed cable market. The convergence of high-density data centers, critical IXPs, and digital transformation across industries underscores a strong outlook for cable manufacturers and service providers operating within this ecosystem.

The High Speed Cables market analysis has been carried out by considering the following segments: Type and Application.

Based on the type, the market is segmented into direct attach copper (DAC) cable, active optical cable (AOC), active copper cable (ACC), PCIe cable, active electrical cable (AEC), and SAS cable. High-Speed Direct Attach Cables (DACs) are copper-based and are used for short-distance, high-speed data transfer between devices such as servers, switches, and storage systems in data centers. They are available in various form factors and speeds, ranging from 10G to 800G. DACs are perfect for high-performance computing applications since they can handle data transmission speeds of 400 Gbps and more. DACs are more energy-efficient than optical cables as they use less power. DACs are typically less expensive than optical connections, particularly at shorter distances. Cost effectiveness and easy availability of direct attach copper cables are the two crucial factors behind the significant demand for the same. These cables are approximately 2 to 3 times less expensive than optical transceivers or fiber optic cables. Also, the DAC cables are extremely dependable as when attached to the port, the cables make strong connection, thereby ensuring constant flow of signals without interruption. The dependable factor is also another parameter for higher demand of the cables. This factor also drives the market for direct attach copper cables in the high speed cables market.

Moreover, factor such as growing deployment of data centers propel the high speed cables market growth. Also, emergence of smart cities is expected to bring new High

Speed Cables market trends in the coming years.

Based on application, the market is segmented into switch to switch interconnect, switch to server, and server to storage interconnect. SAS, known as Serial-attached SCSI, is technology used for transferring data from and to computer storage devices such as solid-state drives, hard disk drive, and CD-ROM drives. The SAS cable physical links are set for four wires utilized as two differential signal pairs. One pair transmit data in one direction and the other transmits in the opposite direction. With the growing amount of digital data owing to the increasing adoption of computer devices along increasing sales of smartphones has resulted in growing deployment of data centers across the globe, the adoption of SAS cable is on the higher side. Moreover, the growing use solid-state drives over hard disk drives by end users is among another factor contributing to the growth of the market. There are two types of SAS cables available in the market namely; mini SAS and mini SAS high density. The mini SAS high density cables are majorly procured by the larger enterprises owing to the ability of these cables to support 6Gb/sec SAS. The demand for the high density mini SAS cables is expected to rise over the years, as majority of the end users are experiencing rise in data flow. This factor is analyzed to understand and forecast the market of SAS cable in the high speed cable market.

Amphenol Corporation, Axon Cable SAS, Molex LLC, Volex PLC, NVIDIA CORPORATION, Samtec INC, Shenzhen Sopto Technology Co., Ltd., TE Connectivity Corporation, Edge Optical Solutions, and JPC Connectivity are among the key players profiled in the high speed cables market report.

The high speed cables market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the high speed cables market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the high speed cables market.

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Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the high speed cable market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations such as specific country and segmental insight highlights crucial progressive industry trends in the high speed cable market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - High Speed Cable Market

Amphenol Corporation

Axon Cable SAS

Molex LLC

Volex Plc

NVIDIA Corp

Samtec Inc

Shenzhen Sopto Technology Co., Ltd.

TE Connectivity Ltd

JPC Connectivity

EDGE Optical Solutions

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