

Data Center Cable Market by Cable Type (Optical Fiber Cable, Copper Cable), Application (Rack-to-Rack, Intra-Rack, Interconnect, Storage Area Network), Cables, Passive Cables, Active Cables, AI & Non-AI, and Region - Global Forecast to 2032

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Abstracts

The global data center cable market is anticipated to grow from USD 12.24 billion in 2026 to USD 18.81 billion by 2032, growing at a CAGR of 7.4%.

“Based on data center type, the hyperscale data centers segment to register the highest CAGR during the forecast period/”

Hyperscale data centers are expected to witness the highest CAGR in the data center cable market during the forecast period, driven by rapid growth in cloud computing, AI workloads, generative AI, and high-performance computing (HPC) applications that require massive, scalable connectivity infrastructure. Major hyperscalers are investing heavily in large-scale AI-ready facilities featuring high-density server deployments, GPU clusters, and ultra-high-speed networking architectures. This is driving substantial demand for optical fiber, twinaxial, and high-speed copper cabling solutions for server-to-server, rack-to-rack, and interconnect applications.

“Based on workload, non-AI to hold the larger market share.”

The non-AI workload segment holds the larger market share in the data center cable market during the forecast period because conventional enterprise applications, cloud storage, web hosting, colocation services, telecom operations, and business-critical IT workloads continue to account for the majority of global data center infrastructure deployments. Most existing data centers are still designed to support non-AI computing

environments, requiring extensive copper and fiber cabling for networking, power distribution, and interconnectivity. Additionally, enterprises across banking, healthcare, retail, government, and manufacturing sectors continue to expand digital operations, sustaining high demand for structured cabling solutions. While non-AI workloads currently dominate the market, AI workloads are witnessing significant growth due to increasing investments in generative AI, high-performance computing, and AI-driven data center infrastructure.

“North America to hold the largest market share during the forecast period.”

North America is expected to hold the largest market share in the data center cable market during the forecast period due to the strong presence of hyperscale data centers, major cloud service providers, and leading AI infrastructure investments across the US and Canada. The region has high adoption of cloud computing, high-performance computing (HPC), and advanced networking technologies, driving significant demand for optical fiber and high-speed copper cabling solutions. Increasing investments by hyperscalers such as Amazon, Microsoft, Google, and Meta in AI-ready data centers are further accelerating cable deployment. Additionally, growing data traffic, early adoption of 400G/800G networking technologies, and strong digital infrastructure development are supporting sustained market growth across North America.

Extensive primary interviews have been conducted with key industry experts in the data center cable market to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakdown of primary participants for the report is shown below.

The study contains insights from various industry experts, including component suppliers, Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type - Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

By Designation - Directors - 50%, Managers - 30%, and Others - 20%

By Region - North America - 45%, Europe - 30%, Asia Pacific - 20%, and the Rest of the World - 5%.

The key players in the data center cable market include Corning Incorporated (US),

Amphenol Corporation (US), Nexans (France), TE Connectivity (Ireland), Prysmian Group (Italy), Furukawa Electric (Japan), Sumitomo Electric (Japan), Panduit Corp. (US), Belden Inc. (US), and LAPP (Germany).

The study includes an in-depth competitive analysis of these key players in the data center cable market, with their company profiles, recent developments, and key market strategies.

Study Coverage:

The report segments the data center cable market and forecasts its market size by cable type (optical fiber cable, copper cable), application (rack-to-rack, intra-rack, interconnect, storage area network), technology (passive cable, active cable), data center type (hyperscale data center, enterprise data center, colocation data center, edge data center), and workload (AI, Non-AI). The report also analyzes key market drivers, restraints, opportunities, and challenges influencing industry growth. It provides a detailed regional assessment across North America, Europe, Asia Pacific, and the Rest of the World, along with country-level insights for major markets. In addition, the study includes value chain analysis and competitive landscape assessment of leading players operating in the global data center cable ecosystem.

Key Benefits of Buying the Report:

Analysis of key drivers (rising adoption of high-speed networking technologies, increasing data traffic driven by AI, IoT, and cloud computing, rapid growth of hyperscale data centers), restraints (high installation and infrastructure costs, complexity in cable management and design), opportunities (growing adoption of green and energy-efficient data centers, Advancements in high-density and modular cabling solutions), and challenges (compatibility issues with legacy network systems, deployment and installation challenges in large-scale environments).

Product and Service Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the data center cable market.

Market Development: Comprehensive information about lucrative markets by analyzing the data center cable market across varied regions.

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the data center cable market.

Competitive Assessment: In-depth assessment of market shares and growth strategies of leading players, such as Corning Incorporated (US), Amphenol Corporation (US), Nexans (France), TE Connectivity (Ireland), Prysmian Group (Italy), Furukawa Electric (Japan), Sumitomo Electric (Japan), Panduit Corp. (US), Belden Inc. (US), and LAPP (Germany).

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