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NA and APAC High Speed Copper Cable Market Size and Forecast (2021–2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type [Direct Attach Copper (DAC) Cable, Active Electrical Cable (AEC), Active Copper Cable (ACC), and Others], Application (Switch to Switch Interconnect, Switch to Server Interconnect, and Server to Storage Interconnect), Bandwidth (56G, 112G, and 224G and Above), End Users (Data Center, Telecommunication, Networking, High Performance Computing, and Others), and Country

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Abstracts

The NA And APAC High Speed Copper Cable Market size was valued at US$ 4.05 billion in 2023 and is expected to reach US$ 6.80 billion by 2031. The NA And APAC High Speed Copper Cable Market is estimated to record a CAGR of 6.7% from 2023 to 2031.

Asia Pacific (APAC) is a diverse region with a large population and a growing digital economy, contributing to the surge in data. APAC has been at the forefront of data computing adoption due to the proliferation of IoT devices, smart city initiatives, and the need for real-time data processing. APAC has witnessed a significant increase in internet penetration rates, leading to a surge in data consumption and the need for localized data processing. According to the GSM Association, the IT industry has been instrumental in extending connectivity across the world. In 2021, the number of internet subscribers reached 4.2 billion globally. In APAC, there were 59% of internet

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subscribers in 2021, projected to reach up to 62% by 2025. The rise of penetration of the internet is directly linked to increasing internet usage.

The rollout of 5G networks is expected to increase internet usage by enabling faster data speeds, lower latency, and higher data device density. According to the GSM Association, the 5G users in APAC were up to 8% in 2021 and projected to increase up to 25% in 2025. Therefore, the internet penetration indicates the vast high speed copper cable market for network infrastructure.

The increasing adoption of cloud, AI, and digitization is driving the demand for hyperscale data centers in the region, which further led to the launch of new hyperscale data centers. For example, in June 2024, Equinix opened its hyperscale xScale data center, OS4x, in Osaka, Japan. In October 2022, Yotta Infrastructure unveiled North India's first hyperscale data center, Yotta D1, in Delhi. Hyperscale data centers use high speed copper cables to support robust data processing and cloud computing operations.

Organizations such as Asia-Pacific Telecommunity (APT) are focused on communication technology development in Asia Pacific. APT implements several pilot projects to promote ICT development in the region. The presence of such an organization is fostering the development of the telecommunication infrastructure in the region. In addition, government investments and FDIs in the telecommunication sector further foster the telecommunication infrastructure in the region. For example, according to the Indian Brand Equity Foundation (IBEF), FDI inflow in the telecom sector stood at US$ 39.32 billion between April 2000 and March 2024. The development in the telecom sector drives the demand for high speed copper cables in the region, fueling the NA And APAC High Speed Copper Cable Market growth.

Based on bandwidth, the NA and APAC high speed copper cable market is segmented into 56G, 112G, 224G and above. The 112G segment held the largest NA And APAC High Speed Copper Cable Market share in 2023. A 112G cable refers to a high-speed data transmission cable capable of supporting data rates of 112 gigabits per second (Gbps) per channel. This type of cable is typically used in high-performance networking and data center environments where extreme data throughput and low latency are required. 112G cables are designed to enable faster data transmission across networks and interconnect devices, such as servers, switches, routers, and storage systems. They are used in industries such as cloud computing, artificial intelligence, high-performance computing (HPC), and telecommunications, where massive amounts of data need to be moved quickly. 112G cables are based on PAM4 (Pulse Amplitude

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Modulation 4-level) signaling. PAM4 allows more data to be transmitted per cycle by encoding two bits per symbol [compared to one bit in traditional NRZ (Non-Return to Zero) signaling], effectively doubling the bandwidth without doubling the frequency.

TE Connectivity Ltd, Molex LLC, Samtec Inc, Amphenol Corp, Yamaichi Electronics Co., Ltd., Credo Technology Group Holding Ltd, JPC Connectivity, NVIDIA Corp, Volex Plc, and The Siemon Co are among the prominent players profiled in the NA And APAC High Speed Copper Cable Market report. Several other major players were also studied and analyzed in the NA And APAC High Speed Copper Cable Market report to get a holistic view of the market and its ecosystem.

The overall NA And APAC High Speed Copper Cable Market share has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the NA And APAC High Speed Copper Cable Market. 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 NA And APAC High Speed Copper Cable Market.

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