

Global Active Electrical Cables (AEC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Active Electrical Cables (AEC) market size is expected to reach \$ 1572 million by 2032, rising at a market growth of 27.5% CAGR during the forecast period (2026-2032).

An Active Electrical Cable (AEC) is a short-reach, high-speed copper interconnect assembly designed for data centers and high-performance computing systems. It typically consists of high-speed copper cables, connectors, and signal-processing circuitry integrated into the connector ends. By incorporating components such as retimers, DSPs, CDRs, gearboxes, or FEC circuitry, an AEC regenerates, equalizes, retimes, or converts high-speed electrical signals to improve signal integrity and enable reliable transmission with thinner cables and smaller bend radii. Compared with passive direct-attach copper cables, AECs support higher data rates and longer reach. Within suitable transmission distances, they can also offer lower power consumption, greater deployment flexibility, and more competitive total cost than optical interconnect solutions. In 2025, global Active Electrical Cable (AEC) sales volume was approximately 1.60 million units, with an average selling price of around USD 505 per unit, although actual prices vary depending on data rate, connector type, cable length, and signal-processing architecture.

The upstream segment of the AEC industry primarily includes high-speed copper cables and conductors, connectors, signal-processing chips such as retimers and DSPs, printed circuit boards, shielding materials, metal or plastic structural components, as well as high-speed signal testing and automated assembly equipment. Midstream manufacturers develop products for different data rates, interface form factors, cable lengths, and deployment scenarios, covering chip integration, signal-integrity optimization, connector assembly, reliability validation, and mass production. They

provide both standardized and customized interconnect solutions. Downstream customers mainly include cloud and hyperscale data center operators, AI server and GPU cluster suppliers, switch and networking equipment manufacturers, high-performance computing system integrators, telecommunications equipment providers, and server and storage equipment manufacturers. AECs are primarily deployed for short-reach, high-speed connections within racks, between adjacent racks, and among servers, switches, network interface cards, and computing nodes.

Active Electrical Cables (AECs) have rapidly emerged as a high-growth segment within the high-speed interconnect market, driven by the accelerating demand for high-bandwidth, cost-efficient, and thermally optimized connectivity in modern data center environments. As cloud service providers, hyperscalers, and AI infrastructure builders scale toward 400G, 800G, and beyond, traditional passive copper cables (DACs) are reaching their performance and reach limits. AECs offer a compelling alternative: they retain the lower cost and power advantages of copper while incorporating embedded electronics to enable longer reach (up to 7?10 meters) and better signal integrity at high data rates.

The AEC market is increasingly favored by hyperscale data center operators seeking to delay the full shift to Active Optical Cables (AOCs), which are more expensive and power-hungry. AECs now serve as a ?transition solution? between DACs and AOCs in rack-to-rack and leaf-to-spine deployments, especially in AI/ML server clusters where density, cable management, and thermal load are critical. Leading vendors?including Amphenol, TE Connectivity, Molex, and Credo?are investing in next-gen AEC modules capable of handling 112 Gbps per lane and scaling toward 224 Gbps, aligning with upcoming 800G and 1.6T system designs.

While demand is currently strongest in North America and China, AEC adoption is expected to expand globally as OEMs and telecom operators seek more efficient 100G/200G/400G interconnect solutions. Challenges remain, including standardization, interoperability, and limited market awareness, but as interoperability improves and costs decline, AECs are poised to play a pivotal role in future-proofing short-reach connectivity across AI, cloud, and enterprise networks.

This report studies the global Active Electrical Cables (AEC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Active Electrical Cables (AEC) 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 Active Electrical Cables (AEC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Active Electrical Cables (AEC) total production and demand, 2021-2032, (K Units)

Global Active Electrical Cables (AEC) total production value, 2021-2032, (USD Million)

Global Active Electrical Cables (AEC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Active Electrical Cables (AEC) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Active Electrical Cables (AEC) domestic production, consumption, key domestic manufacturers and share

Global Active Electrical Cables (AEC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Active Electrical Cables (AEC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Active Electrical Cables (AEC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Active Electrical Cables (AEC) 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 Molex, Amphenol, TE Connectivity, Volex, JPC Connectivity, Luxshare Precision, Zhaolong Interconnect, 10Gtek, Credo, Broadex Technologies, 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 Active Electrical Cables (AEC) 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

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 Active Electrical Cables (AEC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Electrical Cables (AEC) Market, Segmentation by Type:

100G AEC

200G AEC

400G AEC

800G AEC

1.6T AEC ???

Global Active Electrical Cables (AEC) Market, Segmentation by Connector and Interface Form Factor:

QSFP-series AEC

OSFP-series AEC

Breakout and Mixed-interface AEC

Others

Global Active Electrical Cables (AEC) Market, Segmentation by Signal-processing Function:

Retiming AEC

Speed-shifting AEC

Breakout AEC

Topology-optimized AEC

Global Active Electrical Cables (AEC) Market, Segmentation by Application:

Hyperscalers / Cloud Providers

OEM / ODM Customers

Telecom Operators

Distributors / VARs

Others

Companies Profiled:

Molex

Amphenol

TE Connectivity

Volex

JPC Connectivity

Luxshare Precision

Zhaolong Interconnect

10Gtek

Credo

Broadex Technologies

C-FLINK Technology

Shenzhen HTD Information-Tech

Infraeo

Approved Networks (Legrand)

Key Questions Answered:

1. How big is the global Active Electrical Cables (AEC) market?
2. What is the demand of the global Active Electrical Cables (AEC) market?
3. What is the year over year growth of the global Active Electrical Cables (AEC) market?
4. What is the production and production value of the global Active Electrical Cables (AEC) market?
5. Who are the key producers in the global Active Electrical Cables (AEC) market?
6. What are the growth factors driving the market demand?

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