

Global 800G Active Electrical Cable (AEC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 800G Active Electrical Cable (AEC) market size is expected to reach \$ 1156 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

In 2025, global 800G Active Electrical Cable (AEC) production reached approximately 600.9 k units with an average global market price of around US\$ 600 per unit. The production capacity for 800G Active Electrical Cable (AEC) in 2025 was approximately 700 k units. The typical gross profit margin for 800G Active Electrical Cable (AEC) is between 20% and 40%. The 800G Active Electrical Cable (AEC) is a high-speed copper interconnect solution that integrates active signal-conditioning chips, such as retimers or equalizers, within the cable assembly. It is primarily used for 800G Ethernet, AI servers, and high-performance computing (HPC) systems for intra-rack and adjacent-rack connections. Compared with passive DACs, 800G AECs compensate for high-frequency insertion loss and crosstalk in copper cables, enabling longer reach?typically 2 to 5 meters or more?while maintaining low latency, relatively low power consumption, and a cost advantage over optical solutions in the 112G SerDes era.

The 800G AEC market is experiencing rapid growth driven by the expansion of AI training clusters, hyperscale data centers, and the transition to 800G Ethernet. Enabled by 112G SerDes, next-generation 800G switches, and AI accelerators, AECs serve as a critical middle-ground solution between passive DACs and optical interconnects in short-reach applications. While AECs have higher power consumption and cost than passive DACs, their extended reach and improved signal integrity make them increasingly attractive for 2?5 meter interconnects in AI servers and HPC racks, positioning them as a key growth segment in the 800G copper interconnect market.

This report studies the global 800G Active Electrical Cable (AEC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 800G

Active Electrical Cable (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 800G Active Electrical Cable (AEC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 800G Active Electrical Cable (AEC) total production and demand, 2021-2032, (K Unit)

Global 800G Active Electrical Cable (AEC) total production value, 2021-2032, (USD Million)

Global 800G Active Electrical Cable (AEC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Unit), (based on production site)

Global 800G Active Electrical Cable (AEC) consumption by region & country, CAGR, 2021-2032 & (K Unit)

U.S. VS China: 800G Active Electrical Cable (AEC) domestic production, consumption, key domestic manufacturers and share

Global 800G Active Electrical Cable (AEC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Unit)

Global 800G Active Electrical Cable (AEC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Unit)

Global 800G Active Electrical Cable (AEC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Unit)

This report profiles key players in the global 800G Active Electrical Cable (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, Credo, Infraeo, Approved Networks (Legrand), Luxshare Precision, Zhaolong Interconnect, 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 800G Active Electrical Cable (AEC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Unit) 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 800G Active Electrical Cable (AEC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 800G Active Electrical Cable (AEC) Market, Segmentation by Type:

QSFP28 AEC

QSFP56 AEC

QSFP112 / OSFP AEC

Others

Global 800G Active Electrical Cable (AEC) Market, Segmentation by Cable Length:

Short-range AEC: 2?3 m

Medium-range AEC: 3?5 m

Long-range AEC: 5?7 m

Global 800G Active Electrical Cable (AEC) Market, Segmentation by Channel Architecture:

8?100GAEC

4?200GAEC

Global 800G Active Electrical Cable (AEC) Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Molex

Amphenol

TE Connectivity

Volex

JPC Connectivity

Credo

Infraeo

Approved Networks (Legrand)

Luxshare Precision

Zhaolong Interconnect

10Gtek

Broadex Technologies

C-FLINK Technology

Shenzhen HTD Information-Tech

Key Questions Answered:

1. How big is the global 800G Active Electrical Cable (AEC) market?
2. What is the demand of the global 800G Active Electrical Cable (AEC) market?
3. What is the year over year growth of the global 800G Active Electrical Cable (AEC) market?
4. What is the production and production value of the global 800G Active Electrical Cable (AEC) market?
5. Who are the key producers in the global 800G Active Electrical Cable (AEC) market?
6. What are the growth factors driving the market demand?

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