

Global AI Server Power Cable Assembly Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Power Cable Assembly market size is expected to reach \$ 5136 million by 2032, rising at a market growth of 22.1% CAGR during the forecast period (2026-2032).

AI Server Power Cable Assembly refers to power cable assemblies, wire harnesses, GPU power cables, PSU power cables, rack power cables, busbar-to-server cables, and internal power distribution cables used in AI servers, GPU servers, AI accelerator systems, rack-scale computing systems, and high-density data center infrastructure. These products are used to transmit electrical power from power supply units, power shelves, busbars, power distribution modules, or server motherboards to GPUs, CPUs, accelerator cards, storage modules, fan modules, and other high-power server components. In this report, the market mainly includes GPU power cable assemblies, CPU power cable assemblies, PSU-to-board power cables, busbar power cable assemblies, ORV3 power cable assemblies, high-current DC power cable assemblies, AC input power cable assemblies, custom server wire harnesses, and overmolded power cable assemblies. The 2025 benchmark ASP is US\$18 / unit, shipment volume is 68,000k units, and average gross margin is 27%. The upstream industry chain includes copper conductors, high-temperature wires, insulation materials, cable jackets, terminals, crimp contacts, power connectors, housings, heat-shrink tubes, shielding materials, labels, testing fixtures, and cable management accessories. The midstream includes cable design, wire cutting, stripping, crimping, soldering, overmolding, harness assembly, electrical testing, pull-force testing, high-current testing, insulation testing, and customized production. The downstream includes AI servers, GPU servers, cloud computing data centers, artificial intelligence and high-performance computing, colocation data centers, enterprise IT infrastructure, telecom infrastructure, and server OEM/ODM manufacturing.

AI server power cable assemblies are becoming more important as AI servers require higher current delivery, denser internal layouts, and more reliable power routing for GPUs and accelerator modules. Compared with conventional server power cables, AI server power cable assemblies must support higher power density, better thermal resistance, safer connector mating, stable current sharing, and compact cable routing inside space-constrained chassis. Demand is supported by the growth of GPU servers, rack-scale AI systems, high-density data centers, and the shift toward higher-voltage and busbar-based power architectures. Product development is moving toward high-current connectors, lower contact resistance, improved cable flexibility, better airflow management, stronger flame resistance, more standardized OCP-compatible interfaces, and customized harness designs for different server platforms.

This report studies the global AI Server Power Cable Assembly production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Power Cable Assembly 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 AI Server Power Cable Assembly that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Power Cable Assembly total production and demand, 2021-2032, (K Units)

Global AI Server Power Cable Assembly total production value, 2021-2032, (USD Million)

Global AI Server Power Cable Assembly production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Server Power Cable Assembly consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Server Power Cable Assembly domestic production, consumption, key domestic manufacturers and share

Global AI Server Power Cable Assembly production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Server Power Cable Assembly production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Server Power Cable Assembly production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Server Power Cable Assembly 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, TE Connectivity, Amphenol, BizLink, JPC Connectivity, Luxshare Technologies, Foxconn Interconnect Technology, Y.C. Cable, NFSB Tech, JPC Powertech, 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 AI Server Power Cable Assembly 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 AI Server Power Cable Assembly Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Power Cable Assembly Market, Segmentation by Type:

GPU Power Cable Assembly

CPU Power Cable Assembly

PSU Power Cable Assembly

Global AI Server Power Cable Assembly Market, Segmentation by Current Rating:

Low-Current Power Cable Assembly

Medium-Current Power Cable Assembly

High-Current Power Cable Assembly

Ultra-High-Current Power Cable Assembly

Global AI Server Power Cable Assembly Market, Segmentation by End User:

Server OEM Use

Server ODM Use

Data Center Retrofit Use

System Integration Use

Global AI Server Power Cable Assembly Market, Segmentation by Application:

Cloud Computing

Artificial Intelligence & High-Performance Computing

Data Center Infrastructure

Telecommunications & Network Infrastructure

Enterprise IT Infrastructure

Companies Profiled:

Molex

TE Connectivity

Amphenol

BizLink

JPC Connectivity

Luxshare Technologies

Foxconn Interconnect Technology

Y.C. Cable

NFSB Tech

JPC Powertech

Key Questions Answered:

1. How big is the global AI Server Power Cable Assembly market?
2. What is the demand of the global AI Server Power Cable Assembly market?
3. What is the year over year growth of the global AI Server Power Cable Assembly market?
4. What is the production and production value of the global AI Server Power Cable Assembly market?
5. Who are the key producers in the global AI Server Power Cable Assembly market?
6. What are the growth factors driving the market demand?

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