

Global Liquid Cooled Cable Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooled Cable market size is expected to reach \$ 950 million by 2032, rising at a market growth of 16.2% CAGR during the forecast period (2026-2032).

Liquid-cooled cables are high-performance power transmission cables that integrate internal liquid cooling channels. The circulating coolant removes heat generated in the conductor during high-current operation, thereby increasing current-carrying capacity and controlling temperature rise. Compared to traditional air-cooled cables, liquid-cooled cables can carry higher currents with smaller wire diameters and lighter weight, offering better heat dissipation efficiency and stability. They are suitable for high-power applications such as ultra-fast charging systems for new energy vehicles, energy storage devices, and high-power industrial power supply systems, making them a crucial technological solution for achieving high-power, high-efficiency power transmission. In recent years, the liquid-cooled supercharging pile market has developed rapidly, with significant price fluctuations and substantial price differences between different power ratings. Low-power liquid-cooled cables can be as low as around \$1500 per cable, while ultra-high-power liquid-cooled cables can exceed \$5000 per cable.

Liquid-cooled cables are high-performance power transmission products that integrate liquid cooling channels within the cable. Through coolant circulation, they effectively remove heat generated in the conductor during high-current operation, significantly improving current-carrying capacity and controlling temperature rise. Compared to traditional air-cooled cables, liquid-cooled cables can carry higher currents with smaller wire diameters and lighter weight, exhibiting superior heat dissipation efficiency and stability. They are widely used in ultra-fast charging systems for new energy vehicles, high-power energy storage systems, industrial high-power power supply, and data

centers, serving as a crucial technological solution for achieving high-power, high-efficiency power transmission.

In recent years, with the acceleration of global electrification and the advancement of energy structure transformation, the demand for high-power power transmission has continued to grow. The upgrade of the new energy vehicle industry to 800V and higher voltage platforms has driven a rapid increase in the demand for high-current charging; the expansion of energy storage systems and the grid connection of renewable energy sources has also placed higher demands on cable products with high reliability and stability. Against this backdrop, the limitations of traditional air-cooled cables in terms of heat dissipation capacity and weight control have gradually become apparent, making liquid cooling technology a key breakthrough direction, driving the liquid-cooled cable market into a phase of rapid development.

From a product structure perspective, liquid-cooled cables can be categorized by current rating into 500A, 600A, 800A, and higher specifications, with high-current-rated products experiencing faster growth. By application area, new energy vehicle charging systems remain the largest source of demand, while the market potential for energy storage and high-power industrial equipment is gradually being realized.

Technologically, optimized cooling channel design, the application of high-conductivity copper materials, upgraded insulation materials, and lightweight structural design have become core competitive advantages in the industry. High-reliability sealing technology and improved weather resistance help extend product lifespan and enhance safety.

In terms of the industry chain, upstream suppliers include high-purity copper conductor materials, cooling system components, and high-performance insulation materials; midstream suppliers are liquid-cooled cable manufacturers; and downstream suppliers include charging pile manufacturers, energy storage system integrators, and industrial equipment manufacturers. The industry exhibits a technology-driven competitive landscape, with companies possessing core R&D capabilities and large-scale manufacturing capabilities holding an advantage in the high-end market. Regionally, China is the world's largest market for new energy vehicles and energy storage, while Europe and North America are experiencing significant growth in demand for high-power applications, and emerging markets are also gradually initiating high-power infrastructure construction.

Looking ahead, the global liquid-cooled cable market will be driven by three core factors: first, the continued penetration of high-voltage platforms in new energy vehicles; second, the expansion of energy storage and renewable energy systems; and third, the

increasing demand for upgrades in high-power industrial applications. Market growth will be reflected not only in increased quantity but also in upgraded specifications and enhanced product value.

This report studies the global Liquid Cooled Cable production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Liquid Cooled Cable total production and demand, 2021-2032, (K Units)

Global Liquid Cooled Cable total production value, 2021-2032, (USD Million)

Global Liquid Cooled Cable production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Cooled Cable consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Cooled Cable domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooled Cable production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Cooled Cable production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Cooled Cable production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Cooled Cable 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 LS Cable, LEONI, CPC, Phoenix Contact, Caledonian, Rifeng Electric Cable, Pacific Electric Wire & Cable, Omg Transmitting Technology, Jiaxing Titon Cable, Far East Electric, 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 Liquid Cooled Cable 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 Liquid Cooled Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooled Cable Market, Segmentation by Type:

300–400A Grade

500A Grade

600–800A Grade

1000A Grade

Global Liquid Cooled Cable Market, Segmentation by Cooling Medium:

Insulated Oil-cooled Wire

Coolant-cooled Wire

Global Liquid Cooled Cable Market, Segmentation by Cable Outer Diameter:

Below 30mm

Above 30mm

Global Liquid Cooled Cable Market, Segmentation by Application:

Light Vehicle Charging Stations

Heavy Truck Charging Stations

Others

Companies Profiled:

LS Cable

LEONI

CPC

Phoenix Contact

Caledonian

Rifeng Electric Cable

Pacific Electric Wire & Cable

Omg Transmitting Technology

Jiaxing Titon Cable

Far East Electric

Wuxi Xinhongye Wire&Cable

Guangzhou Cable

Key Questions Answered:

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

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