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Global Liquid-cooled EV Charging Cable Market Growth 2026-2032

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Abstracts

The global Liquid-cooled EV Charging Cable market size is predicted to grow from US$ 291 million in 2025 to US$ 917 million in 2032; it is expected to grow at a CAGR of 17.6% from 2026 to 2032.

Liquid-cooled electric vehicle charging cables are power transmission cables that utilize liquid cooling technology in high-power DC charging systems for electric vehicles. By integrating coolant circulation channels within the cable, heat generated in the conductor is promptly dissipated during high-current charging (e.g., 500A, 600A and above), effectively controlling temperature rise and enhancing current-carrying capacity. Compared to traditional air-cooled cables, liquid-cooled structures can achieve higher power output with smaller wire diameters and lighter weight, improving charging efficiency and user comfort. They are widely used in 800V high-voltage platforms for new energy vehicles and ultra-fast charging infrastructure, and are one of the key components for achieving high-power fast charging. 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 charging cables can be as low as around $1500 per cable, while ultra-high-power liquid-cooled charging cables can exceed $5000 per cable.

Liquid-cooled electric vehicle charging cables are key power transmission components in high-power DC charging systems. By integrating coolant circulation channels within the cable, they effectively dissipate heat generated by the conductor under high-current operation, significantly improving current-carrying capacity and controlling temperature rise. Compared to traditional air-cooled cables, liquid-cooled structures can carry currents of 500A, 600A, and even above 800A with smaller wire diameters and lighter weight, significantly improving charging efficiency and user experience. As new energy

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vehicles upgrade to 800V and higher voltage platforms, liquid-cooled charging cables are becoming an important technological support for the construction of ultra-fast charging infrastructure.

In recent years, the global penetration rate of new energy vehicles has continued to increase, and the construction of charging infrastructure has accelerated its transformation from conventional fast charging to high-power ultra-fast charging. The rapid growth in the number of 800V high-voltage platform vehicles has made high-current charging a market necessity. Traditional air-cooled cables face challenges such as difficulty in temperature rise control and heavy wire diameters under continuous high-power operation, while liquid-cooling technology effectively solves the technical bottlenecks in high-power charging scenarios through efficient heat dissipation design. Meanwhile, the accelerated electrification of commercial vehicles and heavy trucks is further expanding the demand for higher-power charging capabilities, driving rapid growth in the liquid-cooled charging cable market.

From a product structure perspective, liquid-cooled electric vehicle charging cables can be categorized by current rating into 500A, 600A, 800A, and higher specifications, with 600A and above specifications showing the fastest growth. In terms of voltage platform, 800V systems are currently the mainstream, while 1000V and above platforms have development potential in the commercial vehicle and energy storage sectors. Technologically, optimized cooling channel structures, the application of high-conductivity copper materials, upgraded insulation materials, and lightweight design are key competitive factors. High-reliability sealing technology and improved weather resistance help extend product lifespan and enhance safety levels.

In terms of the industry chain, upstream suppliers include high-purity copper conductor materials, coolant system components, and high-performance insulation materials; midstream suppliers are liquid-cooled charging cable manufacturers; and downstream suppliers are charging pile manufacturers and charging operators. The industry exhibits a highly technology-driven competitive landscape, with companies possessing core R&D capabilities and large-scale manufacturing capabilities holding an advantage in the high-end market. In terms of regional markets, China is the world's largest market for new energy vehicles and charging infrastructure construction. Europe and North America are experiencing rapid growth in high-power charging network deployment, and emerging markets are also gradually launching high-power charging station construction.

Looking ahead, the global liquid-cooled electric vehicle charging cable market will be

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driven by three core factors: first, the continued penetration of high-voltage platforms for new energy vehicles; second, the expansion of ultra-fast charging network construction; and third, the increasing demand for upgraded charging efficiency and user experience. Market growth is not only reflected in increased quantity but also in upgraded specifications and enhanced product value.

LP Information, Inc. (LPI) ' newest research report, the “Liquid-cooled EV Charging Cable Industry Forecast” looks at past sales and reviews total world Liquid-cooled EV Charging Cable sales in 2025, providing a comprehensive analysis by region and market sector of projected Liquid-cooled EV Charging Cable sales for 2026 through 2032. With Liquid-cooled EV Charging Cable sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Liquid-cooled EV Charging Cable industry.

This Insight Report provides a comprehensive analysis of the global Liquid-cooled EV Charging Cable landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Liquid-cooled EV Charging Cable portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Liquid-cooled EV Charging Cable market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Liquid-cooled EV Charging Cable and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Liquid-cooled EV Charging Cable.

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid-cooled EV Charging Cable market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

300–400A Grade

500A Grade

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600–800A Grade

1000A Grade

Segmentation by Cooling Medium:

Insulated Oil-cooled Wire

Coolant-cooled Wire

Segmentation by Cable Outer Diameter:

Below 30mm

Above 30mm

Segmentation by Application:

Light Vehicle Charging Stations

Heavy Truck Charging Stations

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

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The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

LS Cable

LEONI

CPC

Phoenix Contact

Caledonian

Rifeng Electric Cable

Pacific Electric Wire & Cable

Omg Transmitting Technology

Jiaxing Tition Cable

Far East Electric

Wuxi Xinhongye Wire&Cable

Guangzhou Cable

Key Questions Addressed in this Report
What is the 10-year outlook for the global Liquid-cooled EV Charging Cable market?
What factors are driving Liquid-cooled EV Charging Cable market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Liquid-cooled EV Charging Cable market opportunities vary by end market size?
How does Liquid-cooled EV Charging Cable break out by Type, by Application?

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