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# Global Liquid-cooled Charging Cable Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Liquid-cooled Charging Cable market size was valued at US$ 322 million in 2025 and is forecast to a readjusted size of US$ 950 million by 2032 with a CAGR of 16.2% during review period.

Liquid-cooled charging cables are power transmission cables that utilize liquid cooling technology in high-power electric vehicle charging systems. By integrating coolant circulation channels within the cable, heat generated in the conductor is carried away during high-current operation, effectively controlling temperature rise and increasing current-carrying capacity. Compared to traditional air-cooled cables, liquid-cooled charging cables can carry higher currents (such as 500A, 600A and above) with smaller wire diameters and lighter weight, while 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 charging cables are core power transmission components in high-power electric vehicle charging systems. By integrating coolant circulation channels within the cable, they effectively reduce conductor temperature rise under high-current operating conditions, thereby achieving higher current-carrying capacity and more stable charging performance. Compared to traditional air-cooled cables, liquid cooling technology can carry currents of 500A, 600A, and even above 800A with smaller wire diameters and

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lighter weight, significantly improving charging efficiency and operational comfort. As new energy vehicles upgrade to 800V and higher voltage platforms, liquid-cooled charging cables are becoming a crucial foundational component of ultra-fast charging systems.

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 supercharging. The increasing number of 800V high-voltage platform vehicles places higher demands on high-current charging capabilities. Traditional air-cooled cables face challenges in temperature rise control and are heavy and bulky under continuous high-power operation, while liquid-cooled cables, through efficient heat dissipation design, effectively solve the technical bottlenecks in high-power charging scenarios. Therefore, liquid-cooled charging cables have become a key deployment direction in the construction of new supercharging stations and the upgrading of existing stations.

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

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 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. Regionally, China is the world's largest supercharging network construction market, while Europe and North America are accelerating their high-power charging network deployments, and emerging markets are also gradually initiating high-power charging infrastructure construction.

Looking ahead, the global liquid-cooled charging cable market will be driven by three core factors: first, the continued increase in the penetration rate of high-voltage

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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 reflected not only in increased volume but also in upgraded specifications and higher unit prices.

This report is a detailed and comprehensive analysis for global Liquid-cooled Charging Cable market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

**Key Features:**

Global Liquid-cooled Charging Cable market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid-cooled Charging Cable market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid-cooled Charging Cable market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid-cooled Charging Cable market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

**The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Liquid-cooled Charging Cable
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace
This report profiles key players in the global Liquid-cooled Charging Cable market based on the following parameters - company overview, sales quantity, revenue, 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

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Contact, Caledonian, Rifeng Electric Cable, Pacific Electric Wire & Cable, Omg Transmitting Technology, Jiaxing Tition Cable, Far East Electric, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

**Market Segmentation**

Liquid-cooled Charging Cable market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

300–400A Grade

500A Grade

600–800A Grade

1000A Grade

Market segment by Cooling Medium

Insulated Oil-cooled Wire

Coolant-cooled Wire

Market segment by Cable Outer Diameter

Below 30mm

Above 30mm

Market segment by Application

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Light Vehicle Charging Stations

Heavy Truck Charging Stations

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

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South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Liquid-cooled Charging Cable product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid-cooled Charging Cable, with price, sales quantity, revenue, and global market share of Liquid-cooled Charging Cable from 2021 to 2026.

Chapter 3, the Liquid-cooled Charging Cable competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid-cooled Charging Cable breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Liquid-cooled Charging Cable market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Liquid-cooled Charging Cable.

Chapter 14 and 15, to describe Liquid-cooled Charging Cable sales channel, distributors, customers, research findings and conclusion.

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# Contents

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