

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

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## Abstracts

The global Liquid-Cooled Charging Pile 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 charging pile cables are liquid-cooled power transmission cables used in high-power DC charging piles. They integrate conductive core wires and coolant circulation channels to ensure safe and stable power transmission under high current conditions (e.g., 500A, 600A and above). By circulating coolant within the cable to remove heat generated by the conductors, temperature rise is effectively reduced, allowing the cable to carry higher power output with smaller wire diameters and lighter weight, improving charging efficiency and ease of operation. Liquid-cooled charging pile cables are widely used in 800V high-voltage platform ultra-fast charging systems for new energy vehicles and are one of the key components for upgrading high-power charging infrastructure. 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 pile cables can be as low as around \$1500 per cable, while ultra-high-power liquid-cooled charging pile cables can cost over \$5000 per cable.

Liquid-cooled charging cables are key power transmission components in high-power DC charging systems. By integrating coolant circulation channels within the cable, they effectively reduce conductor temperature rise under high-current operating conditions, achieving higher power output and more stable charging performance. Compared to traditional air-cooled cables, liquid-cooled structures can handle higher currents (such as 500A, 600A, 800A, and even over 1000A) while maintaining smaller wire diameters and lighter weight, significantly improving charging efficiency and user experience. As

new energy vehicles upgrade to 800V and higher voltage platforms, liquid-cooled charging cables are becoming a crucial core component in the construction of ultra-fast charging infrastructure.

In recent years, the global penetration rate of new energy vehicles has rapidly increased, and charging infrastructure construction has upgraded from 'fast charging' to 'ultra-fast charging.' The increasing number of high-power charging stations has driven the continuous growth in demand for liquid-cooled cables. Especially with the increasing number of 800V high-voltage platform vehicles, traditional air-cooled cables can no longer meet the long-term stable output requirements of high current, making liquid-cooling technology the mainstream development direction. The commercial vehicle and heavy-duty truck sectors have an even more urgent need for high-power charging, further expanding the market for high-specification liquid-cooled cables.

From a product structure perspective, liquid-cooled charging pile cables can be categorized by current rating into 500A, 600A, 800A, and higher specifications, with 600A and above products experiencing 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 charging sectors. Technologically, optimized cooling channel design, the application of high-conductivity copper materials, upgraded insulation materials, and lightweight structures are key competitive advantages. 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 cable manufacturers; and downstream suppliers are charging pile manufacturers and charging operators. The industry exhibits a technology-driven competitive landscape, with companies possessing R&D capabilities and system integration capabilities having a greater advantage in the high-end market. Regionally, China is the world's largest supercharging network construction market, while Europe and North America are accelerating the deployment of high-power charging networks, and emerging markets are also gradually initiating high-power infrastructure construction.

Looking ahead, the global liquid-cooled charging cable market will be driven by three core factors: first, the increasing penetration rate of high-voltage platforms for new energy vehicles; second, the expansion of ultra-fast charging network construction; and third, the growing demand for improved charging efficiency and user experience. Market

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

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Liquid-Cooled Charging Pile 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 Tition 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 Charging Pile 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 Charging Pile Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Liquid-Cooled Charging Pile Cable Market, Segmentation by Type:

300–400A Grade

500A Grade

600–800A Grade

1000A Grade

### Global Liquid-Cooled Charging Pile Cable Market, Segmentation by Cooling Medium:

Insulated Oil-cooled Wire

Coolant-cooled Wire

### Global Liquid-Cooled Charging Pile Cable Market, Segmentation by Cable Outer Diameter:

Below 30mm

Above 30mm

### Global Liquid-Cooled Charging Pile 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 Charging Pile Cable market?
2. What is the demand of the global Liquid-Cooled Charging Pile Cable market?
3. What is the year over year growth of the global Liquid-Cooled Charging Pile Cable market?
4. What is the production and production value of the global Liquid-Cooled Charging Pile Cable market?
5. Who are the key producers in the global Liquid-Cooled Charging Pile Cable market?
6. What are the growth factors driving the market demand?

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