

Global Liquid-cooled EV Charging Cable Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid-cooled EV Charging Cable market size is expected to reach \$ 915 million by 2032, rising at a market growth of 16.5% CAGR during the forecast period (2026-2032).

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

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

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.

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

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

Highlights and key features of the study

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

Global Liquid-cooled EV Charging Cable total production value, 2021-2032, (USD Million)

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

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

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

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

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

Global Liquid-cooled EV Charging Cable production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid-cooled EV Charging 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, Jiaying 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 EV Charging 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 EV Charging Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid-cooled EV Charging Cable Market, Segmentation by Type:

300–400A Grade

500A Grade

600–800A Grade

1000A Grade

Global Liquid-cooled EV Charging Cable Market, Segmentation by Cooling Medium:

Insulated Oil-cooled Wire

Coolant-cooled Wire

Global Liquid-cooled EV Charging Cable Market, Segmentation by Cable Outer Diameter:

Below 30mm

Above 30mm

Global Liquid-cooled EV Charging 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

Jiaying Titon Cable

Far East Electric

Wuxi Xinhongye Wire&Cable

Guangzhou Cable

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Liquid-cooled EV Charging Cable Introduction
- 1.2 World Liquid-cooled EV Charging Cable Supply & Forecast
 - 1.2.1 World Liquid-cooled EV Charging Cable Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Liquid-cooled EV Charging Cable Production (2021-2032)
 - 1.2.3 World Liquid-cooled EV Charging Cable Pricing Trends (2021-2032)
- 1.3 World Liquid-cooled EV Charging Cable Production by Region (Based on Production Site)
 - 1.3.1 World Liquid-cooled EV Charging Cable Production Value by Region (2021-2032)
 - 1.3.2 World Liquid-cooled EV Charging Cable Production by Region (2021-2032)
 - 1.3.3 World Liquid-cooled EV Charging Cable Average Price by Region (2021-2032)
 - 1.3.4 North America Liquid-cooled EV Charging Cable Production (2021-2032)
 - 1.3.5 Europe Liquid-cooled EV Charging Cable Production (2021-2032)
 - 1.3.6 China Liquid-cooled EV Charging Cable Production (2021-2032)
 - 1.3.7 Japan Liquid-cooled EV Charging Cable Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Liquid-cooled EV Charging Cable Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Liquid-cooled EV Charging Cable Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Liquid-cooled EV Charging Cable Demand (2021-2032)
- 2.2 World Liquid-cooled EV Charging Cable Consumption by Region
 - 2.2.1 World Liquid-cooled EV Charging Cable Consumption by Region (2021-2026)
 - 2.2.2 World Liquid-cooled EV Charging Cable Consumption Forecast by Region (2027-2032)
- 2.3 United States Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.4 China Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.5 Europe Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.6 Japan Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.7 South Korea Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.8 ASEAN Liquid-cooled EV Charging Cable Consumption (2021-2032)
- 2.9 India Liquid-cooled EV Charging Cable Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Liquid-cooled EV Charging Cable Production Value by Manufacturer (2021-2026)
- 3.2 World Liquid-cooled EV Charging Cable Production by Manufacturer (2021-2026)
- 3.3 World Liquid-cooled EV Charging Cable Average Price by Manufacturer (2021-2026)
- 3.4 Liquid-cooled EV Charging Cable Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Liquid-cooled EV Charging Cable Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Liquid-cooled EV Charging Cable in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Liquid-cooled EV Charging Cable in 2025
- 3.6 Liquid-cooled EV Charging Cable Market: Overall Company Footprint Analysis
 - 3.6.1 Liquid-cooled EV Charging Cable Market: Region Footprint
 - 3.6.2 Liquid-cooled EV Charging Cable Market: Company Product Type Footprint
 - 3.6.3 Liquid-cooled EV Charging Cable Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Liquid-cooled EV Charging Cable Production Value Comparison
 - 4.1.1 United States VS China: Liquid-cooled EV Charging Cable Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Liquid-cooled EV Charging Cable Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Liquid-cooled EV Charging Cable Production Comparison
 - 4.2.1 United States VS China: Liquid-cooled EV Charging Cable Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Liquid-cooled EV Charging Cable Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Liquid-cooled EV Charging Cable Consumption Comparison

4.3.1 United States VS China: Liquid-cooled EV Charging Cable Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Liquid-cooled EV Charging Cable Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Liquid-cooled EV Charging Cable Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Liquid-cooled EV Charging Cable Production Value (2021-2026)

4.4.3 United States Based Manufacturers Liquid-cooled EV Charging Cable Production (2021-2026)

4.5 China Based Liquid-cooled EV Charging Cable Manufacturers and Market Share

4.5.1 China Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Liquid-cooled EV Charging Cable Production Value (2021-2026)

4.5.3 China Based Manufacturers Liquid-cooled EV Charging Cable Production (2021-2026)

4.6 Rest of World Based Liquid-cooled EV Charging Cable Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Liquid-cooled EV Charging Cable Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 300–400A Grade

5.2.2 500A Grade

5.2.3 600–800A Grade

5.2.4 1000A Grade

5.3 Market Segment by Type

5.3.1 World Liquid-cooled EV Charging Cable Production by Type (2021-2032)

- 5.3.2 World Liquid-cooled EV Charging Cable Production Value by Type (2021-2032)
- 5.3.3 World Liquid-cooled EV Charging Cable Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COOLING MEDIUM

- 6.1 World Liquid-cooled EV Charging Cable Market Size Overview by Cooling Medium: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Cooling Medium
 - 6.2.1 Insulated Oil-cooled Wire
 - 6.2.2 Coolant-cooled Wire
- 6.3 Market Segment by Cooling Medium
 - 6.3.1 World Liquid-cooled EV Charging Cable Production by Cooling Medium (2021-2032)
 - 6.3.2 World Liquid-cooled EV Charging Cable Production Value by Cooling Medium (2021-2032)
 - 6.3.3 World Liquid-cooled EV Charging Cable Average Price by Cooling Medium (2021-2032)

7 MARKET ANALYSIS BY CABLE OUTER DIAMETER

- 7.1 World Liquid-cooled EV Charging Cable Market Size Overview by Cable Outer Diameter: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Cable Outer Diameter
 - 7.2.1 Below 30mm
 - 7.2.2 Above 30mm
- 7.3 Market Segment by Cable Outer Diameter
 - 7.3.1 World Liquid-cooled EV Charging Cable Production by Cable Outer Diameter (2021-2032)
 - 7.3.2 World Liquid-cooled EV Charging Cable Production Value by Cable Outer Diameter (2021-2032)
 - 7.3.3 World Liquid-cooled EV Charging Cable Average Price by Cable Outer Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Liquid-cooled EV Charging Cable Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Light Vehicle Charging Stations

8.2.2 Heavy Truck Charging Stations

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Liquid-cooled EV Charging Cable Production by Application (2021-2032)

8.3.2 World Liquid-cooled EV Charging Cable Production Value by Application (2021-2032)

8.3.3 World Liquid-cooled EV Charging Cable Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 LS Cable

9.1.1 LS Cable Details

9.1.2 LS Cable Major Business

9.1.3 LS Cable Liquid-cooled EV Charging Cable Product and Services

9.1.4 LS Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 LS Cable Recent Developments/Updates

9.1.6 LS Cable Competitive Strengths & Weaknesses

9.2 LEONI

9.2.1 LEONI Details

9.2.2 LEONI Major Business

9.2.3 LEONI Liquid-cooled EV Charging Cable Product and Services

9.2.4 LEONI Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 LEONI Recent Developments/Updates

9.2.6 LEONI Competitive Strengths & Weaknesses

9.3 CPC

9.3.1 CPC Details

9.3.2 CPC Major Business

9.3.3 CPC Liquid-cooled EV Charging Cable Product and Services

9.3.4 CPC Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 CPC Recent Developments/Updates

9.3.6 CPC Competitive Strengths & Weaknesses

9.4 Phoenix Contact

9.4.1 Phoenix Contact Details

9.4.2 Phoenix Contact Major Business

9.4.3 Phoenix Contact Liquid-cooled EV Charging Cable Product and Services

- 9.4.4 Phoenix Contact Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Phoenix Contact Recent Developments/Updates
- 9.4.6 Phoenix Contact Competitive Strengths & Weaknesses
- 9.5 Caledonian
 - 9.5.1 Caledonian Details
 - 9.5.2 Caledonian Major Business
 - 9.5.3 Caledonian Liquid-cooled EV Charging Cable Product and Services
 - 9.5.4 Caledonian Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Caledonian Recent Developments/Updates
 - 9.5.6 Caledonian Competitive Strengths & Weaknesses
- 9.6 Rifeng Electric Cable
 - 9.6.1 Rifeng Electric Cable Details
 - 9.6.2 Rifeng Electric Cable Major Business
 - 9.6.3 Rifeng Electric Cable Liquid-cooled EV Charging Cable Product and Services
 - 9.6.4 Rifeng Electric Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Rifeng Electric Cable Recent Developments/Updates
 - 9.6.6 Rifeng Electric Cable Competitive Strengths & Weaknesses
- 9.7 Pacific Electric Wire & Cable
 - 9.7.1 Pacific Electric Wire & Cable Details
 - 9.7.2 Pacific Electric Wire & Cable Major Business
 - 9.7.3 Pacific Electric Wire & Cable Liquid-cooled EV Charging Cable Product and Services
 - 9.7.4 Pacific Electric Wire & Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Pacific Electric Wire & Cable Recent Developments/Updates
 - 9.7.6 Pacific Electric Wire & Cable Competitive Strengths & Weaknesses
- 9.8 Omg Transmitting Technology
 - 9.8.1 Omg Transmitting Technology Details
 - 9.8.2 Omg Transmitting Technology Major Business
 - 9.8.3 Omg Transmitting Technology Liquid-cooled EV Charging Cable Product and Services
 - 9.8.4 Omg Transmitting Technology Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Omg Transmitting Technology Recent Developments/Updates
 - 9.8.6 Omg Transmitting Technology Competitive Strengths & Weaknesses
- 9.9 Jiaxing Tition Cable

- 9.9.1 Jiaxing Tition Cable Details
- 9.9.2 Jiaxing Tition Cable Major Business
- 9.9.3 Jiaxing Tition Cable Liquid-cooled EV Charging Cable Product and Services
- 9.9.4 Jiaxing Tition Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Jiaxing Tition Cable Recent Developments/Updates
- 9.9.6 Jiaxing Tition Cable Competitive Strengths & Weaknesses
- 9.10 Far East Electric
 - 9.10.1 Far East Electric Details
 - 9.10.2 Far East Electric Major Business
 - 9.10.3 Far East Electric Liquid-cooled EV Charging Cable Product and Services
 - 9.10.4 Far East Electric Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Far East Electric Recent Developments/Updates
 - 9.10.6 Far East Electric Competitive Strengths & Weaknesses
- 9.11 Wuxi Xinhongye Wire&Cable
 - 9.11.1 Wuxi Xinhongye Wire&Cable Details
 - 9.11.2 Wuxi Xinhongye Wire&Cable Major Business
 - 9.11.3 Wuxi Xinhongye Wire&Cable Liquid-cooled EV Charging Cable Product and Services
 - 9.11.4 Wuxi Xinhongye Wire&Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Wuxi Xinhongye Wire&Cable Recent Developments/Updates
 - 9.11.6 Wuxi Xinhongye Wire&Cable Competitive Strengths & Weaknesses
- 9.12 Guangzhou Cable
 - 9.12.1 Guangzhou Cable Details
 - 9.12.2 Guangzhou Cable Major Business
 - 9.12.3 Guangzhou Cable Liquid-cooled EV Charging Cable Product and Services
 - 9.12.4 Guangzhou Cable Liquid-cooled EV Charging Cable Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Guangzhou Cable Recent Developments/Updates
 - 9.12.6 Guangzhou Cable Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Liquid-cooled EV Charging Cable Industry Chain
- 10.2 Liquid-cooled EV Charging Cable Upstream Analysis
 - 10.2.1 Liquid-cooled EV Charging Cable Core Raw Materials
 - 10.2.2 Main Manufacturers of Liquid-cooled EV Charging Cable Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Liquid-cooled EV Charging Cable Production Mode

10.6 Liquid-cooled EV Charging Cable Procurement Model

10.7 Liquid-cooled EV Charging Cable Industry Sales Model and Sales Channels

10.7.1 Liquid-cooled EV Charging Cable Sales Model

10.7.2 Liquid-cooled EV Charging Cable Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Liquid-cooled EV Charging Cable Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Liquid-cooled EV Charging Cable Production Value by Region (2021-2026) & (USD Million)

Table 3. World Liquid-cooled EV Charging Cable Production Value by Region (2027-2032) & (USD Million)

Table 4. World Liquid-cooled EV Charging Cable Production Value Market Share by Region (2021-2026)

Table 5. World Liquid-cooled EV Charging Cable Production Value Market Share by Region (2027-2032)

Table 6. World Liquid-cooled EV Charging Cable Production by Region (2021-2026) & (K Units)

Table 7. World Liquid-cooled EV Charging Cable Production by Region (2027-2032) & (K Units)

Table 8. World Liquid-cooled EV Charging Cable Production Market Share by Region (2021-2026)

Table 9. World Liquid-cooled EV Charging Cable Production Market Share by Region (2027-2032)

Table 10. World Liquid-cooled EV Charging Cable Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Liquid-cooled EV Charging Cable Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Liquid-cooled EV Charging Cable Major Market Trends

Table 13. World Liquid-cooled EV Charging Cable Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Liquid-cooled EV Charging Cable Consumption by Region (2021-2026) & (K Units)

Table 15. World Liquid-cooled EV Charging Cable Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Liquid-cooled EV Charging Cable Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Liquid-cooled EV Charging Cable Producers in 2025

Table 18. World Liquid-cooled EV Charging Cable Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Liquid-cooled EV Charging Cable Producers in 2025

Table 20. World Liquid-cooled EV Charging Cable Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Liquid-cooled EV Charging Cable Company Evaluation Quadrant

Table 22. World Liquid-cooled EV Charging Cable Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Liquid-cooled EV Charging Cable Production Site of Key Manufacturer

Table 24. Liquid-cooled EV Charging Cable Market: Company Product Type Footprint

Table 25. Liquid-cooled EV Charging Cable Market: Company Product Application Footprint

Table 26. Liquid-cooled EV Charging Cable Competitive Factors

Table 27. Liquid-cooled EV Charging Cable New Entrant and Capacity Expansion Plans

Table 28. Liquid-cooled EV Charging Cable Mergers & Acquisitions Activity

Table 29. United States VS China Liquid-cooled EV Charging Cable Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Liquid-cooled EV Charging Cable Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Liquid-cooled EV Charging Cable Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Liquid-cooled EV Charging Cable Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Liquid-cooled EV Charging Cable Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Liquid-cooled EV Charging Cable Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share (2021-2026)

Table 37. China Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Liquid-cooled EV Charging Cable Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Liquid-cooled EV Charging Cable Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Liquid-cooled EV Charging Cable Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share (2021-2026)

Table 42. Rest of World Based Liquid-cooled EV Charging Cable Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share (2021-2026)

Table 47. World Liquid-cooled EV Charging Cable Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Liquid-cooled EV Charging Cable Production by Type (2021-2026) & (K Units)

Table 49. World Liquid-cooled EV Charging Cable Production by Type (2027-2032) & (K Units)

Table 50. World Liquid-cooled EV Charging Cable Production Value by Type (2021-2026) & (USD Million)

Table 51. World Liquid-cooled EV Charging Cable Production Value by Type (2027-2032) & (USD Million)

Table 52. World Liquid-cooled EV Charging Cable Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Liquid-cooled EV Charging Cable Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Liquid-cooled EV Charging Cable Production Value by Cooling Medium, (USD Million), 2021 & 2025 & 2032

Table 55. World Liquid-cooled EV Charging Cable Production by Cooling Medium (2021-2026) & (K Units)

Table 56. World Liquid-cooled EV Charging Cable Production by Cooling Medium (2027-2032) & (K Units)

Table 57. World Liquid-cooled EV Charging Cable Production Value by Cooling Medium (2021-2026) & (USD Million)

Table 58. World Liquid-cooled EV Charging Cable Production Value by Cooling Medium (2027-2032) & (USD Million)

Table 59. World Liquid-cooled EV Charging Cable Average Price by Cooling Medium (2021-2026) & (US\$/Unit)

Table 60. World Liquid-cooled EV Charging Cable Average Price by Cooling Medium

(2027-2032) & (US\$/Unit)

Table 61. World Liquid-cooled EV Charging Cable Production Value by Cable Outer Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World Liquid-cooled EV Charging Cable Production by Cable Outer Diameter (2021-2026) & (K Units)

Table 63. World Liquid-cooled EV Charging Cable Production by Cable Outer Diameter (2027-2032) & (K Units)

Table 64. World Liquid-cooled EV Charging Cable Production Value by Cable Outer Diameter (2021-2026) & (USD Million)

Table 65. World Liquid-cooled EV Charging Cable Production Value by Cable Outer Diameter (2027-2032) & (USD Million)

Table 66. World Liquid-cooled EV Charging Cable Average Price by Cable Outer Diameter (2021-2026) & (US\$/Unit)

Table 67. World Liquid-cooled EV Charging Cable Average Price by Cable Outer Diameter (2027-2032) & (US\$/Unit)

Table 68. World Liquid-cooled EV Charging Cable Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Liquid-cooled EV Charging Cable Production by Application (2021-2026) & (K Units)

Table 70. World Liquid-cooled EV Charging Cable Production by Application (2027-2032) & (K Units)

Table 71. World Liquid-cooled EV Charging Cable Production Value by Application (2021-2026) & (USD Million)

Table 72. World Liquid-cooled EV Charging Cable Production Value by Application (2027-2032) & (USD Million)

Table 73. World Liquid-cooled EV Charging Cable Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Liquid-cooled EV Charging Cable Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. LS Cable Basic Information, Manufacturing Base and Competitors

Table 76. LS Cable Major Business

Table 77. LS Cable Liquid-cooled EV Charging Cable Product and Services

Table 78. LS Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. LS Cable Recent Developments/Updates

Table 80. LS Cable Competitive Strengths & Weaknesses

Table 81. LEONI Basic Information, Manufacturing Base and Competitors

Table 82. LEONI Major Business

- Table 83. LEONI Liquid-cooled EV Charging Cable Product and Services
- Table 84. LEONI Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. LEONI Recent Developments/Updates
- Table 86. LEONI Competitive Strengths & Weaknesses
- Table 87. CPC Basic Information, Manufacturing Base and Competitors
- Table 88. CPC Major Business
- Table 89. CPC Liquid-cooled EV Charging Cable Product and Services
- Table 90. CPC Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. CPC Recent Developments/Updates
- Table 92. CPC Competitive Strengths & Weaknesses
- Table 93. Phoenix Contact Basic Information, Manufacturing Base and Competitors
- Table 94. Phoenix Contact Major Business
- Table 95. Phoenix Contact Liquid-cooled EV Charging Cable Product and Services
- Table 96. Phoenix Contact Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Phoenix Contact Recent Developments/Updates
- Table 98. Phoenix Contact Competitive Strengths & Weaknesses
- Table 99. Caledonian Basic Information, Manufacturing Base and Competitors
- Table 100. Caledonian Major Business
- Table 101. Caledonian Liquid-cooled EV Charging Cable Product and Services
- Table 102. Caledonian Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Caledonian Recent Developments/Updates
- Table 104. Caledonian Competitive Strengths & Weaknesses
- Table 105. Rifeng Electric Cable Basic Information, Manufacturing Base and Competitors
- Table 106. Rifeng Electric Cable Major Business
- Table 107. Rifeng Electric Cable Liquid-cooled EV Charging Cable Product and Services
- Table 108. Rifeng Electric Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Rifeng Electric Cable Recent Developments/Updates
- Table 110. Rifeng Electric Cable Competitive Strengths & Weaknesses

Table 111. Pacific Electric Wire & Cable Basic Information, Manufacturing Base and Competitors

Table 112. Pacific Electric Wire & Cable Major Business

Table 113. Pacific Electric Wire & Cable Liquid-cooled EV Charging Cable Product and Services

Table 114. Pacific Electric Wire & Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Pacific Electric Wire & Cable Recent Developments/Updates

Table 116. Pacific Electric Wire & Cable Competitive Strengths & Weaknesses

Table 117. Omg Transmitting Technology Basic Information, Manufacturing Base and Competitors

Table 118. Omg Transmitting Technology Major Business

Table 119. Omg Transmitting Technology Liquid-cooled EV Charging Cable Product and Services

Table 120. Omg Transmitting Technology Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Omg Transmitting Technology Recent Developments/Updates

Table 122. Omg Transmitting Technology Competitive Strengths & Weaknesses

Table 123. Jiaxing Tition Cable Basic Information, Manufacturing Base and Competitors

Table 124. Jiaxing Tition Cable Major Business

Table 125. Jiaxing Tition Cable Liquid-cooled EV Charging Cable Product and Services

Table 126. Jiaxing Tition Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Jiaxing Tition Cable Recent Developments/Updates

Table 128. Jiaxing Tition Cable Competitive Strengths & Weaknesses

Table 129. Far East Electric Basic Information, Manufacturing Base and Competitors

Table 130. Far East Electric Major Business

Table 131. Far East Electric Liquid-cooled EV Charging Cable Product and Services

Table 132. Far East Electric Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Far East Electric Recent Developments/Updates

Table 134. Far East Electric Competitive Strengths & Weaknesses

Table 135. Wuxi Xinhongye Wire&Cable Basic Information, Manufacturing Base and Competitors

Table 136. Wuxi Xinhongye Wire&Cable Major Business

Table 137. Wuxi Xinhongye Wire&Cable Liquid-cooled EV Charging Cable Product and Services

Table 138. Wuxi Xinhongye Wire&Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuxi Xinhongye Wire&Cable Recent Developments/Updates

Table 140. Wuxi Xinhongye Wire&Cable Competitive Strengths & Weaknesses

Table 141. Guangzhou Cable Basic Information, Manufacturing Base and Competitors

Table 142. Guangzhou Cable Major Business

Table 143. Guangzhou Cable Liquid-cooled EV Charging Cable Product and Services

Table 144. Guangzhou Cable Liquid-cooled EV Charging Cable Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Guangzhou Cable Recent Developments/Updates

Table 146. Guangzhou Cable Competitive Strengths & Weaknesses

Table 147. Global Key Players of Liquid-cooled EV Charging Cable Upstream (Raw Materials)

Table 148. Global Liquid-cooled EV Charging Cable Typical Customers

Table 149. Liquid-cooled EV Charging Cable Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Liquid-cooled EV Charging Cable Picture

Figure 2. World Liquid-cooled EV Charging Cable Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Liquid-cooled EV Charging Cable Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Liquid-cooled EV Charging Cable Production (2021-2032) & (K Units)

Figure 5. World Liquid-cooled EV Charging Cable Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Liquid-cooled EV Charging Cable Production Value Market Share by Region (2021-2032)

Figure 7. World Liquid-cooled EV Charging Cable Production Market Share by Region (2021-2032)

Figure 8. North America Liquid-cooled EV Charging Cable Production (2021-2032) & (K Units)

Figure 9. Europe Liquid-cooled EV Charging Cable Production (2021-2032) & (K Units)

Figure 10. China Liquid-cooled EV Charging Cable Production (2021-2032) & (K Units)

Figure 11. Japan Liquid-cooled EV Charging Cable Production (2021-2032) & (K Units)

Figure 12. Liquid-cooled EV Charging Cable Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 15. World Liquid-cooled EV Charging Cable Consumption Market Share by Region (2021-2032)

Figure 16. United States Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 17. China Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 18. Europe Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 19. Japan Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 20. South Korea Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 22. India Liquid-cooled EV Charging Cable Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Liquid-cooled EV Charging Cable by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Liquid-cooled EV Charging Cable Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Liquid-cooled EV Charging Cable Markets in 2025

Figure 26. United States VS China: Liquid-cooled EV Charging Cable Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Liquid-cooled EV Charging Cable Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Liquid-cooled EV Charging Cable Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share 2025

Figure 30. China Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Liquid-cooled EV Charging Cable Production Market Share 2025

Figure 32. World Liquid-cooled EV Charging Cable Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Liquid-cooled EV Charging Cable Production Value Market Share by Type in 2025

Figure 34. 300–400A Grade

Figure 35. 500A Grade

Figure 36. 600–800A Grade

Figure 37. 1000A Grade

Figure 38. World Liquid-cooled EV Charging Cable Production Market Share by Type (2021-2032)

Figure 39. World Liquid-cooled EV Charging Cable Production Value Market Share by Type (2021-2032)

Figure 40. World Liquid-cooled EV Charging Cable Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Liquid-cooled EV Charging Cable Production Value by Cooling Medium, (USD Million), 2021 & 2025 & 2032

Figure 42. World Liquid-cooled EV Charging Cable Production Value Market Share by Cooling Medium in 2025

Figure 43. Insulated Oil-cooled Wire

Figure 44. Coolant-cooled Wire

Figure 45. World Liquid-cooled EV Charging Cable Production Market Share by Cooling Medium (2021-2032)

Figure 46. World Liquid-cooled EV Charging Cable Production Value Market Share by Cooling Medium (2021-2032)

Figure 47. World Liquid-cooled EV Charging Cable Average Price by Cooling Medium (2021-2032) & (US\$/Unit)

Figure 48. World Liquid-cooled EV Charging Cable Production Value by Cable Outer Diameter, (USD Million), 2021 & 2025 & 2032

Figure 49. World Liquid-cooled EV Charging Cable Production Value Market Share by Cable Outer Diameter in 2025

Figure 50. Below 30mm

Figure 51. Above 30mm

Figure 52. World Liquid-cooled EV Charging Cable Production Market Share by Cable Outer Diameter (2021-2032)

Figure 53. World Liquid-cooled EV Charging Cable Production Value Market Share by Cable Outer Diameter (2021-2032)

Figure 54. World Liquid-cooled EV Charging Cable Average Price by Cable Outer Diameter (2021-2032) & (US\$/Unit)

Figure 55. World Liquid-cooled EV Charging Cable Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Liquid-cooled EV Charging Cable Production Value Market Share by Application in 2025

Figure 57. Light Vehicle Charging Stations

Figure 58. Heavy Truck Charging Stations

Figure 59. Others

Figure 60. World Liquid-cooled EV Charging Cable Production Market Share by Application (2021-2032)

Figure 61. World Liquid-cooled EV Charging Cable Production Value Market Share by Application (2021-2032)

Figure 62. World Liquid-cooled EV Charging Cable Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Liquid-cooled EV Charging Cable Industry Chain

Figure 64. Liquid-cooled EV Charging Cable Procurement Model

Figure 65. Liquid-cooled EV Charging Cable Sales Model

Figure 66. Liquid-cooled EV Charging Cable Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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