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Liquid-Cooled EV Charging Cable Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

https://marketpublishers.com/r/LD18D0F41145EN.html
Date: November 2025
Pages: 206
Price: US$ 4,850.00 (Single User License)
ID: LD18D0F41145EN

Abstracts

The Global Liquid-Cooled EV Charging Cable Market was valued at USD 2.03 billion in 2024 and is estimated to grow at a CAGR of 16.5% to reach USD 10.88 billion by 2034.

The accelerated deployment of ultra-fast DC charging infrastructure is transforming the EV charging landscape. Liquid-cooled charging cables support high current capacities ranging from 150 kW to more than 1.5 MW, enabling faster and safer charging while maintaining a compact design. These cables allow operators and network providers to reduce charging time significantly without increasing cable weight or heat risks. This technology also optimizes site area usage, simplifies operation and maintenance of high-power chargers, and supports large-scale fleet electrification and highway corridor development.

The market is seeing intensified investments and production expansion as manufacturers and OEMs scale operations to meet rising megawatt-level demand. Numerous producers and charging infrastructure integrators have upgraded manufacturing facilities, initiated pilot-scale production of liquid-cooling components, and partnered with connector and cooling system suppliers to accelerate deployment of charging systems ranging from 350 kW to over 1,000 kW. The growing transition to electric commercial transport, including trucks, buses, and delivery fleets, is a major catalyst for liquid-cooled charging solutions. Heavy-duty charging applications demand consistent thermal performance, making liquid-cooled cables ideal for operators seeking longer equipment lifespan and efficient thermal regulation under demanding operational conditions.

In 2024, the passenger vehicle segment held a 71% share and is anticipated to grow at

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a CAGR of 16.2% through 2034. The strong dominance of this segment is linked to the rapid global increase in electric car adoption and the rising need for ultra-fast charging options. As automakers continue integrating higher voltage systems, efficient heat management during fast charging becomes critical. Liquid-cooled cables enable safe and compact power delivery, allowing higher energy throughput and shorter charging durations while maintaining system safety and performance reliability.

The level 3 segment held a 66% share and is expected to grow at a CAGR of 17.5% between 2025 and 2034. This segment's leadership stems from its capability to deliver ultra-fast DC charging that significantly minimizes vehicle downtime. With the surge in electric vehicle adoption, demand for high-power charging exceeding 350 kW has risen sharply, especially in public and highway charging applications. Liquid-cooled cables play a vital role in this space by managing heat efficiently during high current flow, ensuring reliable, safe operation, and longer cable service life even under continuous heavy-duty cycles.

United States Liquid-Cooled EV Charging Cable Market held an 85% share, generating USD 554.4 million in 2024. Market expansion in the U.S. is being driven by the nationwide implementation of high-speed charging networks supported by federal and state initiatives. Rapid development of megawatt-scale infrastructure across both public and fleet networks is stimulating demand for advanced liquid-cooled cable systems that can handle high voltage and current levels. These solutions enhance safety, performance, and durability, which are critical in large-scale public and commercial charging environments.

Leading players in the Global Liquid-Cooled EV Charging Cable Market include Sumitomo Electric, ABB, Huber+Suhner, Phoenix Contact, TE Connectivity, KemPower, Besen International, Brugg eConnect, Leoni, and Sinbon Electronics. These companies continue to strengthen their competitive advantage through technological innovation and strategic expansion. Key participants in the Liquid-Cooled EV Charging Cable Market are adopting a range of strategic initiatives to enhance their market position. Many are investing in research and development to design next-generation cables capable of supporting ultra-high power levels while maintaining flexibility and safety. Strategic collaborations with charging system manufacturers and thermal management specialists are helping accelerate technology commercialization. Companies are also expanding production capacities and establishing localized manufacturing hubs to meet regional demand and reduce supply chain lead times.

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