

Europe Automotive High Voltage Cable Market Forecast to 2030 - Regional Analysis - by Vehicle Type [(Battery Electric Vehicles (BEV), Plugin Hybrid Electric Vehicles (PHEV), Plugin Hybrid Vehicles (PHV)], Conductor Type (Copper and Aluminum), and Core Type (Multi Core and Single Core)

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Abstracts

The Europe automotive high voltage cable market was valued at US\$ 737.22 million in 2022 and is expected to reach US\$ 1,365.85 million by 2030; it is estimated to grow at a CAGR of 8.0% from 2022 to 2030.

Increasing Initiatives Related to Safety Requirements and Test Methods for EV High Voltage Systems Fuels the Europe Automotive High Voltage Cable Market

Initiatives toward safety requirements and test methods for EV high voltage systems aim to ensure the efficient and reliable operation of EVs while prioritizing the safety of occupants and the surrounding environment. Properly functioning cables are crucial for the safe operation of automobiles, as any malfunction can lead to serious safety hazards such as short circuits or latency in self-driving vehicle cameras. To address safety concerns, standards such as IEC 62955 have been established. This standard provides guidelines for designing and testing EV high-voltage cables, covering aspects such as electrical performance, mechanical robustness, and environmental resistance. By adhering to these standards, automotive high-voltage cable manufacturers can ensure the safety and reliability of their products.

New policies and regulations have been introduced by governments to regulate factors such as protection against electric shock, electrical isolation, and environmental resistance. These regulations create a framework that promotes the adoption of safe and reliable EV high voltage systems, thereby increasing the need for high-quality cables that meet the specified safety requirements.

Various initiatives are emerging to promote EV high voltage systems and ensure compliance with safety standards. For example, the SAE J1772 standard has established guidelines for charging connectors and communication protocols used in EV charging infrastructure, including high voltage cable. These initiatives provide a roadmap for manufacturers to develop cables that meet the necessary safety and performance standards. As safety regulations and test methods for EV high voltage systems evolve, the demand for automotive high voltage cables also grows. Manufacturers prioritizing safety and adhering to these requirements are well-positioned to meet the increasing market demand. Thus, increasing initiatives regarding safety requirements and test methods for EV high voltage systems drive the growth of the automotive high voltage cables market.

Europe Automotive High Voltage Cable Market Overview

The Europe automotive high voltage cable market is segmented into France, Germany, Italy, Russia, the UK, and the Rest of Europe. The European automotive industry is experiencing rapid growth due to the increasing production of vehicles in countries such as France, Germany, and Italy. According to European Commission, the automotive industry provides direct and indirect jobs to 13.8 million Europeans, representing 15.1% of total European employment. Europe's EV sector saw significantly more growth than other regions in 2019. According to statistics cited by the European Federation for Transport and Environment, the United Kingdom committed to a net zero emissions target by 2050 and proposed a ban on selling all polluting vehicles by 2035. Several players are launching new EVs in Europe. For instance, in July 2023, E-commerce giant Amazon will deploy its first European vans from US electric vehicle (EV) maker Rivian in Germany over the coming weeks as part of long-term plans to electrify its transportation network. Near 300 electric vans will hit the roads in the Munich, Berlin, and Dusseldorf regions as part of a 100,000 vehicle order it made in 2019 from Rivian. Additionally, in Sep 2022, MG4 launched the new innovative electric car in Europe. The demand for electric vehicles is increasing in Europe. Several companies in Europe are investing in many projects for high voltage cables. High voltage cables are highly used in EVs. For example, in Jan 2023, Collins announced to coordinate development of new high-voltage distribution technologies with EU industry partners under Clean Aviation HECATE projects. Thus, with the increasing demand for EVs the Europe automotive high voltage cable market is increasing significantly.

Europe Automotive High Voltage Cable Market Revenue and Forecast to 2030 (US\$ Mn)

Europe Automotive High Voltage Cable Market Segmentation

The Europe automotive high voltage cable market is segmented into vehicle type, conductor type, core type, and country.

Based on vehicle type, the Europe automotive high voltage cable market is segmented

into battery electric vehicles (BEV), plugin hybrid electric vehicles (PHEV), plugin hybrid vehicles (PHV). The battery electric vehicles (BEV) segment held the largest market share in 2022.

Based on conductor type, the Europe automotive high voltage cable market is bifurcated into copper and aluminum. The copper segment held a larger market share in 2022.

Based on core type, the Europe automotive high voltage cable market is segmented into multi core and single core. The multi core segment held a larger market share in 2022.

Based on country, the Europe automotive high voltage cable market is segmented into Germany, the UK, France, Italy, Russia, and the Rest of Europe. Germany dominated the Europe automotive high voltage cable market in 2022.

ACOME Co, Coroplast Fritz Muller GmbH & Co KG, Gebauer & Griller Kabelwerke GesmbH, Huber+Suhner AG, LEONI AG, Prysmian SpA, Shanghai KMCable Group Co Ltd, and Sumitomo Electric Industries Ltd are some of the leading companies operating in the Europe automotive high voltage cable market.

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