

# RF INTERCONNECT SOLUTIONS FOR ELECTRIC VEHICLES & EV INFRASTRUCTURE

The electric vehicle (EV) market has become a leader in utilizing next-generation technology to redefine the transportation landscape. The cutting edge technologies being designed into EV applications are constantly evolving as end-users demand smarter vehicles. As electrification in vehicles evolves, the need for higher density, higher voltage and higher bandwidth RF interconnect grows. Amphenol RF's broad portfolio of standard products are designed to support electric vehicles and EV infrastructure with a range of durable and reliable options. In addition to commercially available products, our global team of engineers are able to leverage our core competencies to develop custom solutions to fit specific design requirements or challenges.



## APPLICATIONS

- Wireless Charging Stations
- In-Road Charging Systems
- Robotic Charging Systems
- Electromagnetic Compatibility Testing Devices
- Smart Battery Management Systems
- Roadside V2X
- Advanced Driver Assistance Systems (ADAS)
- Telematics

## CORE COMPETENCIES

- Waterproof IP67/68 sealed solutions ideal for harsh environments
- Ruggedized products offering dust, vibration and corrosion resistance
- Quick mating and quick disconnect RF connectors
- Customized hybrid solutions supporting RF, signal and power
- Blindmate connector systems
- Custom cable assemblies and sub-systems

## STANDARD PRODUCTS



AUTOMATE®  
Mini-FAKRA



FAKRA



SMA



AUTOMATE to  
FAKRA Cable  
Assemblies



FAKRA to AMC  
Cable Assemblies



Internal  
Antennas



## CUSTOM SOLUTIONS

### CAMERA INTERCONNECT



Sealed automotive camera interconnect are designed with overmolding of cable and connectors for a fully integrated, clean solution. Sealed interconnect prevent ingress of fluids and dust while high float solutions allow for blind mating of camera back.

### SMART ANTENNA INTERCONNECT



RF interconnect that enable the consolidation of all radio functions into a single module create effective and efficient communication between automotive systems.

## e-Mobility

Amphenol provides a broad array of compact, robust, leading-edge interconnect solutions.



Battery  
Management  
System



EV Charging



Power Inverter  
and Converter



Vehicle  
Control Unit



On-Board  
Charger  
Cell Connection  
System