

# Interconnect for Automotive applications

## Airbag Cable Assembly

To ensure the highest possible level of safety, Amphenol produces not only the connectors, but also the complete cable assembly. The Amphenol cable program sets specifications of car manufacturers worldwide. Major features are Connector Position Assurance (CPA), One-Step-Mating, Kojiri-Safe Connectors, different coding, EMI protection with insulating coils, and ferrites and capacitors corresponding to the filtered frequency ranges for all types of common cables.



## Automotive Interconnect Systems

A broad range of connectors and interconnect systems, designed for vehicle control, entertainment, communications, and passenger safety. These products include automatic clutch and gearbox connectors, cable assemblies, and connectors used with audio, cellular, & GPS systems.



## Battery

RADSO<sup>®</sup> technology provides electrical performance comparable to traditional bolted connections, while allowing tool-less installation and preventing over/under torqued warranty concerns. Ideal for PDCs, alternators, starters and batteries for 24V or 48V systems, the BeCu grid is well suited to serve mate/unmate cycles, and is tolerant of hot-plugging.



## FAKRA Cable Assembly

To keep RF interconnection costs low, and to ensure high levels of electrical and mechanical performance for cable applications, Amphenol offers FAKRA cable assemblies using multiple coaxial cables (RG-58, RG-174, RG-316, RG-178 and other micro-cables), which provide the highest performance and cost effectiveness for automotive communication solutions.



## Retainers

Amphenol offers retainers for all current gas generators, suitable for standard 10mm and 11mm cable assemblies, in up to 5 different codings. The retainers are suitable for fully automated assembly processes. Different colors allow marking according to customer preferences.



## Specific Cable Assemblies

Amphenol provides wiring components, custom specific overmolded devices, and harness assemblies for engine control, sensors, and actuators, as well as for auxiliary motors.



## FAKRA II

The coalition of German automotive manufacturers, have established a new interconnect architecture FAKRA (FAchKReis Automobile). Amphenol has also developed the next generation system FAKRA II, a new and cost effective version with no performance degradation. Dual Plug housing utilizes an internal low cost design. The cable jack connector features a pre-assembled plastic housing to reduce cable assembly production time.



## FAKRA Socket and Plug

Utilizing a RF connector embedded within a plastic housing and designed with multiple colored codes for easy identification, FAKRA connector performs up to 4 GHz and satisfy to mechanical and environmental requirements of the automobile industry. Cable jacks have a snap-in primary locking mechanism, plus a secondary locking mechanism, which works by depressing an additional lock-piece to allow the plastic housing rotates 360 degree after assembly.

