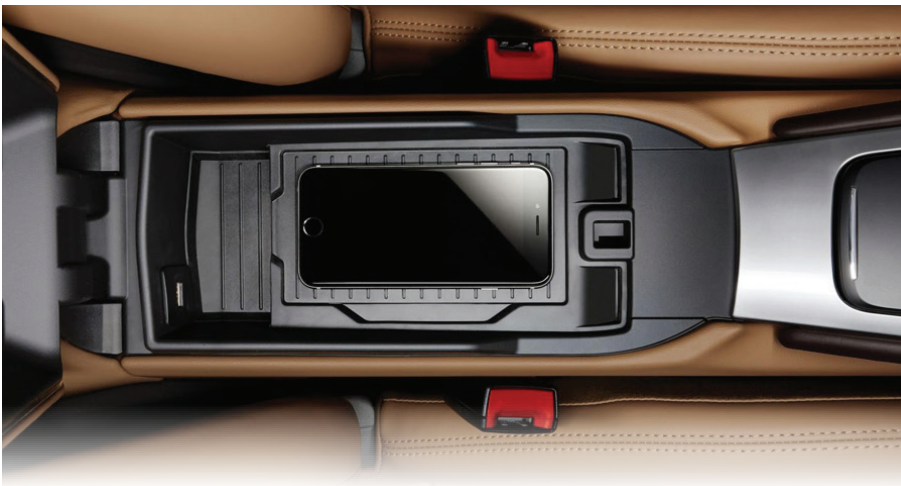




COMPENSER ANTENNA COUPLING

Best mobile reception with patented high frequency technology

Being a faraday cage, the car doesn't offer the best environment to make a phone call. The loss of signal is significant. The quality of the calls is often poor. With Molex's automotive best reception solution the signal loss is reduced to zero. The quality of the phone calls is outstanding. The car driver has the same data and voice transmission quality as outside the vehicle.



Key Features

Unique and patented solution

Signal loss is compensated by antenna coupling of a mobile phone

Achieves the data and voice transmission rates of outdoor phone usage

Radiation levels in the vehicle are reduced

All mobile phone frequency bands, systems and network operator requirements supported

No down conversion of frequency mixing, solution works on the physical mobile phone layer

No SIM card, no IMEI – solution has no influence to the protocol layer between mobile phone and base station

Flexible customization of product meeting the market and customer requirements

Optional: Wireless Charging

Why Molex?

Often the antenna of a mobile phone is not able to ensure the required reception inside the vehicle, because the vehicle body shields the radio signal. The loss of signal in a mid-class vehicle is such significant that just 1/16 to 1/32 of the signal generated by a phone will penetrate outside the vehicle. Molex solves this issue by fully compensating this loss through improving the quality of the calls. The occupants inside the vehicle will have the same reception's quality as who is phoning outside the vehicle.

How does it work?

Molex's automotive best reception solution is based on the co-work of the Antenna Coupling with a MultiBand Compenser. The Molex antenna coupling picks the telephone signal via near-field coupling and transmits it via cable through the MultiBand Compenser to the exterior vehicle antenna. The Molex MultiBand Compenser compensates for signal loss, thus ensuring outstanding data and voice transmission, improving the quality of the calls. The overall system gain is zero (0dB).

Why does it matter?

Molex best reception system guarantees outstanding quality of the calls made inside the vehicle, with better audio quality, higher data rates, less radiation, lower power usage and lower power usage – as a system without the Molex technology inside.



CONSUMER DEVICE INTEGRATION