

# Hybrid Car Compressor Electrical Feedthroughs

Relying on 70 years of experience in manufacturing premium glass-to-metal (GTM) hermetic seals for AC/R applications, Fusite designed the first feedthrough in the world for use in hybrid electric vehicle air conditioning (AC) compressors.

We continue to provide innovative GTM products and solutions, such as electrically driven AC compressors, to most of the existing and emerging hybrid and all-electric vehicle OEMs around the globe.

## Applications

Fusite GTM feedthroughs are custom designed for hybrid vehicle and all-electric vehicle AC compressors.

## Customization

Fusite delivers custom designs for hybrid auto compressor customers with the following design options:

- Molded silicone rubber for outside electrical over-surface
- Heavy duty ceramic insulators for inside electrical over-surface
- Straight pin, flag or tab-style pin connections
- Resistance-welded and bolt-on attachment styles

## Typical Specifications

- Hermeticity:  $< 1 \times 10^{-7}$  standard cc/sec helium
- Insulation resistance:  $> 10,000$  megohm @ 500 VDC
- Dielectric voltage: Min. 2500 volts @  $< 0.5$  mA leakage
- Burst pressure: Should be verified in customer specific applications.

