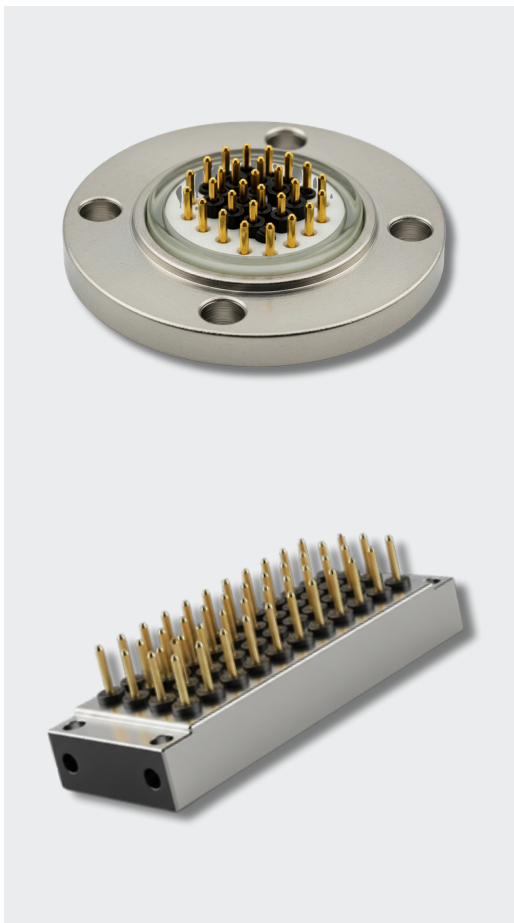


Hermetic Multi-Pin Headers

Aptiv's Hermetic Multi-Pin Headers provide a dependable multi-contact interface with a guaranteed gas-tight and pressure-tight seal. Designed to protect sensitive electronics from the harshest environments, they ensure complete isolation from external elements. With stable electrical characteristics in vacuum, high pressure, and extreme temperatures, they are suited for mission-critical applications. Ideal for aerospace, defense, medical, industrial, and cryogenic systems where environmental integrity is paramount.



KEY FEATURES & BENEFITS

- Hermetic Seal – Prevents ingress of moisture, gases, liquids, and contaminants.
- Extreme Environment Ready – Performs in high vacuum, pressure differentials, and wide temperature ranges.
- High Reliability – Ensures consistent performance in mission-critical systems.
- Rugged Construction – Glass-, ceramic-, or epoxy-to-metal seals for maximum durability.
- Compact Footprint – Multi-pin connectivity in space-saving designs.
- Flexible Mounting – Options for through-hole, surface-mount, or panel installation.
- Corrosion Resistant – Materials and finishes withstand harsh chemical exposure.
- Stable Electrical Performance – Maintains insulation resistance and dielectric strength in extreme conditions.

PRODUCT SPECIFICATIONS

Electrical Properties	
Current Rating	0.5A to 2A (per contact)
Voltage Rating	100 VDC to 500 VAC max. (sea level)
Insulation Resistance	5000 MΩ min @ 500 VDC
Dielectric Withstanding Voltage (DWV)	750 VAC to 1500 VAC (sea level)
Contact Resistance	25 mΩ max, initial, per contact

Environmental Properties	
Operating Temperature	to +200°C
Storage Temperature	−65°C to +150°C
Humidity	MIL-STD-202, Method 103
Thermal Shock	MIL-STD-202, Method 107
Vibration	MIL-STD-202, Method 204
Shock	MIL-STD-202, Method 213
Pressure Rating	Up to 10,000 PSI (689 bar)
Fluid Resistance	Resistant to common industrial/aerospace fluids

PRODUCT SPECIFICATIONS CONTD.

Mechanical Properties	
Mating Cycles	50 to 200 cycles
Pin Retention (Axial)	1.0 N to 2.5 N (per pin)
Insulator Material	Glass, Ceramic, High-Performance Thermoset/Epoxy
Contact Material	Kovar®, Stainless Steel, Copper Alloy
Housing Material	Stainless Steel, Kovar®, Aluminum Alloy
Leak Rate	$<1 \times 10^{-7}$ to $<1 \times 10^{-9}$ cc/sec He
Pitch Options	1.0mm, 1.27mm, 2.0mm, 2.54mm
Pin Diameter	0.40mm to 0.64mm (0.016" to 0.025")