AlumiSeal™ FOR MOTORSPORTS

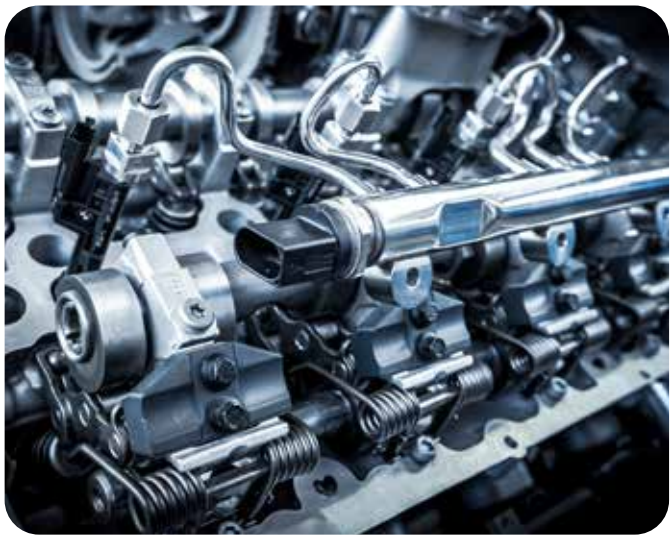
INTERCONNECTS & DIRECT ALUMINUM SEALING

HSC HERMETIC SEAL™ AMETEK ENGINEERED INTERCONNECT AND PACKAGING

Best service and quality for our customers

AlumiSeal™ hermetically sealed interconnect solutions offer a unique choice for applications that require light-weight connectors that protect instrumentation from the heat and pressure of motorsport enviroment.





These AlumiSeal™ connectors are designed to provide weight savings while still operating in the rigors of the motorsports environment where every 0.001 of a second counts.

AlumiSeal™ is an excellent material choice for hermetically sealed connectors due to its unique properties. It is lightweight, has the strength to withstand shock, vibration and humidity, and offers excellent thermal conductivity. With the appropriate coating, an AlumiSeal™ hermetic connector is resistant to fuel and corrosion, making it ideal for use in harsh environments.

Key applications

- Fuel Tank
- Sensors
- Power Systems



Hermetic connectors

The reliability of our hermetically sealed connectors is essential to the high performance of the vehicle.

They are commonly used in fuel tank systems, sensors, and pumps, where performance, weight savings and reliability are crucial.

Why use AMETEK's AlumiSeal™ Interconnect?

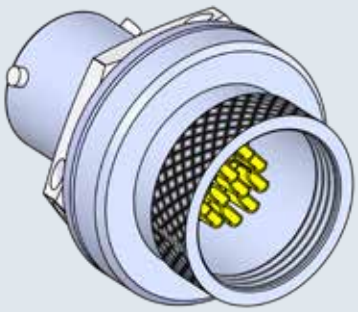
- Light weight shells – 65% of standard connector materials
- Robust resistance to corrosion with several available coatings
- Essential for consistent performance and optimization of motor efficiency
- Leak rate less then 1 x 10^{-10} cc/sec He @ 1atm
- Resistant to thermal cycling
- Available configurations: MIL-DTL-5015, MIL-DTL-24308, MIL-DTL-26500, MIL-DTL-38999, MIL-DTL-83723
- Custom designs available

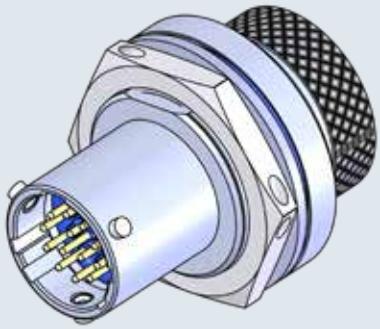
Contact us to discuss additional superior electrical properties of this solution.

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ALU9925002-10B-35PN

Pin Material	Current (Amps)			
	SIZE 20	SIZE 16	SIZE 12	SIZE 8
Copper Alloy*	7.5	13.0	23.0	46.0
Nickel Iron	5.0	10.0	17.0	24.0
Kovar	2.3	3.9	6.9	13.8
Inconel	1.7	3.0	5.3	10.6

* Copper alloy pins used in AlumiSeal™ hermetic connectors offer high conductivity and allow for overall size reduction.

Performance Parameters	AMETEK	(MIL-DTL-38999)
Hermeticity (cc He/Sec)	Up to 1 x 10^{-10}	1 x 10^{-7}
Thermal Cycle	-65°C to 200°C (Tested per MIL STD 202, Method 107, Cond C)	-65°C - 200°C
Insulation Resistance	> 5 Giga-Ohms @ 500 VDC	5 Giga-Ohms @ 500 VDC
DWV	> 1000 VAC: Depends on spacing	1000 VAC
Body Finish	Consult factory for available finishes	Ni Plated
Contact Finish	Ni / Au	Ni / Au
Fluid Immersion	EIA-364-10 Rev J (Including pump gas 89 octane with 10% ethanol)	

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