



Hermetically Sealed Interconnects for Ultra Harsh Environments

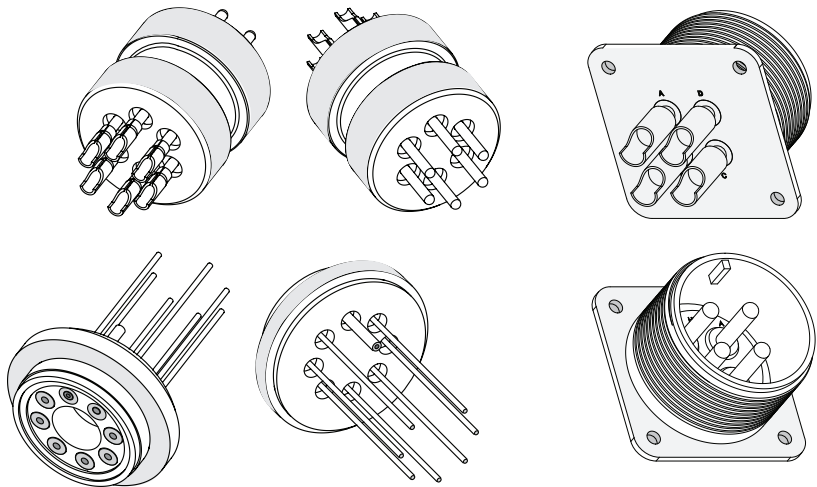
Utilizing Durock Glass

Industry leader Hermetic Seal Corporation (HSC) can now offer its full range of hermetically sealed interconnection products with Durock glass for use in Ultra Harsh environments. The advantages of Durock over more commonly used Borosilicate and Alkali Barium glasses are:

- ▲ Fully functional electrical characteristics (stable insulation resistance) at very high temperatures of +800°F (+427°C)
- ▲ Some configurations are capable of withstanding extreme levels of thermal cycling from -85°F (-65°C) to +800°F (+427°C) without mechanical failure or loss of hermeticity
- ▲ Will withstand very high levels of radiation
 - ✓ 1 x 10²² NVT Neutrons
 - ✓ 1 x 10¹⁸ RADS

Products

- ▲ Circular Connectors
- ▲ Rectangular Connectors
- ▲ Complex Connector Plates
- ▲ High Pressure Bulkheads
- ▲ Multiple Pin Headers



Materials

| Body | Pin/Electrode | Glass |
|----------------------------|----------------------------|----------|
| 300 series Stainless steel | 300 series Stainless steel | HSCG-L19 |
| 300 series Stainless steel | Inconel X-750 | HSCG-L19 |
| Inconel X-750 | Inconel X-750 | HSCG-L19 |

Capability Information

- ▲ Design expertise and modeling capabilities
 - ✓ Mechanical and electrical
- ▲ Experienced design and process engineers
- ▲ Responsive Sales and Customer Service representatives
- ▲ High temperature brazing and glass-sealing furnaces
 - ✓ High volume continuous belt furnaces
- ✓ Low volume batch furnaces
- ▲ Low temperature braze integration furnace
- ▲ Chemical cleaning facility
- ▲ On-site plating shop
- ▲ Inspection and testing facilities
 - ✓ Pressures to 40,000 PSI
 - ✓ Pressure at temperature to 30,000 PSI @ 500°F (260°C)
- ▲ Quality system registered to ISO 9001:2000 and AS9100:2004
- ▲ 37,000 sq. ft. facility
- ▲ Adjacent to AMETEK HCC machining facility (90,000 sq. ft.)
 - ✓ In-house machining of connector shells, bodies for headers & bulkheads and PEEK inserts
 - ✓ In-house glass preform manufacturing
- ▲ Forward looking business plan

About Hermetic Seal Corporation

Founded in 1945, Hermetic Seal Corporation (HSC) is the oldest manufacturer of hermetically sealed electrical interconnection products in the world and the founder of glass-to-metal-sealing technology. As a business unit of AMETEK HCC Industries, HSC has a broad portfolio of connectors, headers, feed thru's, high pressure bulkheads and cable assemblies. We manufacture both standard MIL Spec products and complex customized designs to your drawings and exacting technical requirements.



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