Enhanced Hermetic Solutions

We listen

Our experts specialize in understanding your application and developing value-added engineering and manufacturing services that go hand-in-hand with the hermetic interconnect. This allows you to focus resources where they deliver the most value.

Capabilities

- Compression and matched glass seal designs
- Various atmosphere fusing ovens: Exothermic, Nitrogen, Hydrogen, Argon
- Glass: Fusite T-glass, K-glass, TA-23, 9013 equivalent
- Materials: Carbon Steel, Stainless Steel, Kovar, Nickel Alloys, Titanium, others as requested
- Joining: Braze, solder and weld (resistance and laser)
- Plating: Nickel, Gold, Tin, Copper, Zinc and Zinc-Nickel to customer specifications
- Electrical Insulation: Silicone over molding, ceramic, shrink tubing, epoxy potting
- Automated assembly and vision inspection
- State-of-the-art inspection equipment
- Wire harness integration to customer specification

Typical Performance*

- Hermeticity: < 1x10^-8 std. cc/sec helium
- Insulation Resistance: >10,000 megohm @ 500 VDC
- Dielectric Voltage: 600 volts @ <0.5 mA leakage
- Burst Pressure: >30,000 psi (2070 bar)
- Temperature Range: -65 to 330° F (-85F to 300F) or (-65C to 150C)

*Performance may vary

Engineering

- Custom designs
- Rigorous product development process
- CAD and FEA design tools
- Mechanical and electrical testing
- Material analysis
- Agency approval
- FMEA & PFMEA analysis

Our custom interconnects provide you with a robust electrical or signal connection that bridges an inert atmosphere or vacuum on one side, to a high-pressure, high-temperature or corrosive condition on the other.
We solve
For more than 75 years, Fusite has partnered with customers to provide solutions for products across a wide range of applications. We're here to support your business growth.

Industries we serve
• Oil & Gas
• Medical
• Defense
• Pumps
• Energy Storage
• Air Conditioning & Refrigeration
• Chemical/Petrochemical
• Aerospace & Space
• Transportation