PA&E combines ceramic-to-metal sealing technology with light-weight materials to create reliable hermetic MIL-DTL-38999 compliant connectors that are up to 60% lighter than stainless steel versions.

**Light-weight**
- All aluminum shells available

**High Performance**
- Copper alloy pins, ceramic sealing

**Reliable**
- Proven in harsh environments
Hermetic DC Connectors

Description

PA&E’s technology is proven in the harshest environments – from deep beneath the earth’s surface to deep space and even within the human body. Our 38999 style connector provide a unique solution for application that require a combination of lightweight and high electrical performance.

Applications

• Defense Aircraft
• Airborne Weapons Systems
• Launch Vehicles
• Satellites

Technical Features

Materials

• Material Compatibility: Designed for Aluminum, Titanium or Iron/Nickel Alloy Applications
• Shell Finish Options: Passivated, Nickel/Gold Plated or Chromate Conversion Coated as Applicable
• Contact Material: Beryllium Copper CDA Alloy 172/173
• Contact Finish: Nickel/Gold Plating

Electrical

• Current Rating: Subject to Pin Configuration
• Insulation Resistance: Provides Greater Than 5,000 Megohms at 500 VDC When Tested in IAW MIL-STD-1344, Method 3003
• Dielectric Withstanding Voltage: Exhibits No Evidence of Breakdown or Flash-over When Tested in IAW MIL-STD-1344, Method 3003

Environmental

• Operating Temperature: -65°C to 200°C
• Salt Spray Resistance: Connectors Meet Salt Spray Test in IAW MIL-STD-1344, Method 3003
• Sealing: Kryo flex Polycrystalline Ceramic

Mechanical

• Interface: Per MIL-DTL-38999
• Number of Contacts: Per MIL DTL-38999
• Leak Rate: Less Than 1X10^-9 cc/sec Helium at 1 Atmospheric Differential Pressure
• Thermal Cycling: Tested to 500 (minimum) thermal cycles without hermetic performance loss

For further information contact us at sales@pacaero.com or visit our web site www.pacaero.com