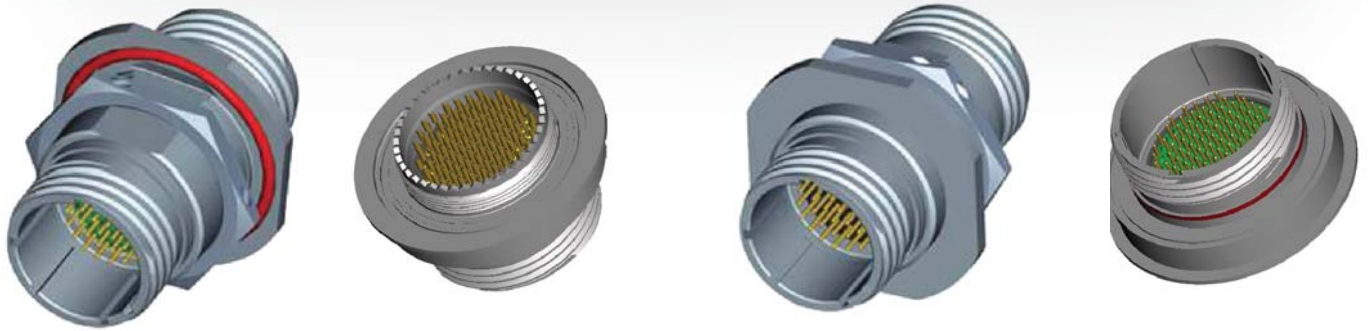


Hermetic DC Connectors



Hermetic Circular DC Connectors

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.

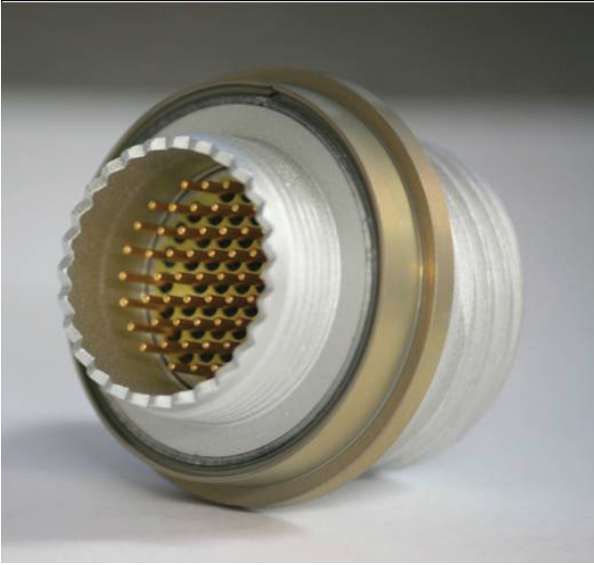
Light-weight ■ All aluminum shells available

High Performance ■ Copper alloy pins, ceramic sealing

Reliable ■ Proven in harsh environments



Hermetic DC Connectors



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

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 light weight, and high electrical performance.

Applications

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

Environmental

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

Mechanical

- **Interface:** Per MIL-DTL-38999
- **Number of Contacts:** Per MIL DTL-38999
- **Leak Rate:** Less Than 1×10^{-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

