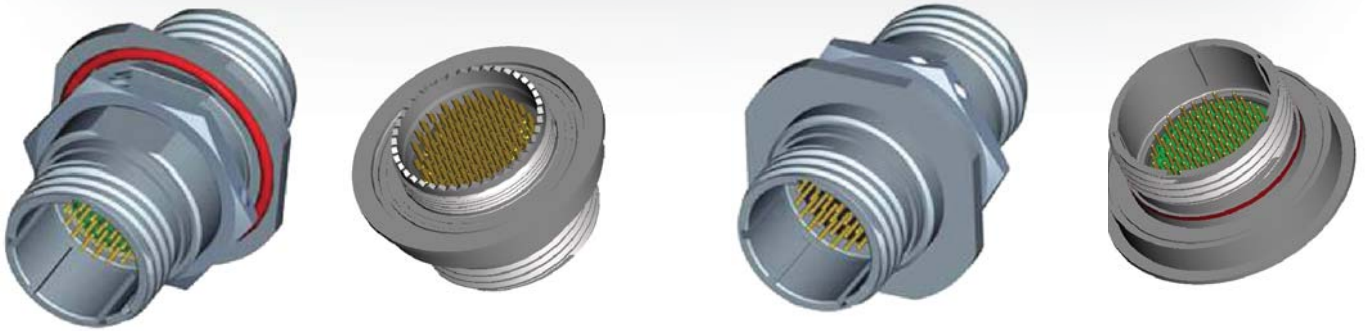


# Hermetic DC Connectors



## 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.

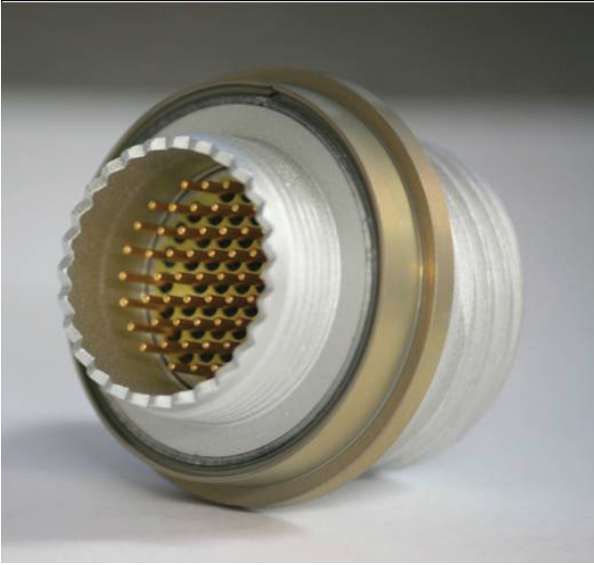
**Light-weight** ■ All aluminum shells available

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

**Reliable** ■ Proven in harsh environments



# Hermetic DC Connectors



## 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

## 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:** Kryoflex Polycrystalline Ceramic

### Mechanical

- **Interface:** Per MIL-DTL-38999
- **Number of Contacts:** Per MIL DTL-38999
- **Leak Rate:** Less Than  $1 \times 10^{-9}$  cc/sec Helium at 1 Atmospheric Differential Pressure

For further information contact us at [sales@pacaero.com](mailto:sales@pacaero.com)  
or visit our web site [www.pacaero.com](http://www.pacaero.com)

