

# Hermetic DC Connectors



## High Pressure, High Temperature Connectors

PA&E's high pressure, high temperature connectors and feed thus are widely used in the energy industry on LWD (logging while drilling), MWD (measuring while drilling) and other applications where absolute reliability is a must.

**Field Proven Technology** ■ Geophysical & industrial applications

**Innovative** ■ Proven ceramic sealing technology

**Reliable** ■ 30,000 PSI, 300C



# 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 custom HP/HT connectors and integrated electronic packages are manufactured to deliver on specific requirements including: non-magnetic properties, high electrical throughput, thermal conductivity and more.

## Applications

- Energy Exploration and Extraction
- Industrial

## Technical Features

### Materials

- **Material Compatibility:** Designed for Iron/Nickel Alloy Applications
- **Body Material Material:** Iron/Nickel Alloy
- **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/Pressure:** – 60°C to 300°C, up to 30KPSI
- **Salt Spray Resistance:** Connectors Meet Salt Spray Test in IAW MIL-STD-1344, Method 3003
- **Sealing:** Kryoflex Polycrystalline Ceramic

### Mechanical

- **Nominal Pin Diameter:** 0.040", 0.063", 0.094", 0.141" Diameter and Custom
- **Leak Rate:** Less Than  $1 \times 10^{-9}$  cc/sec Helium at 1 ATM

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