

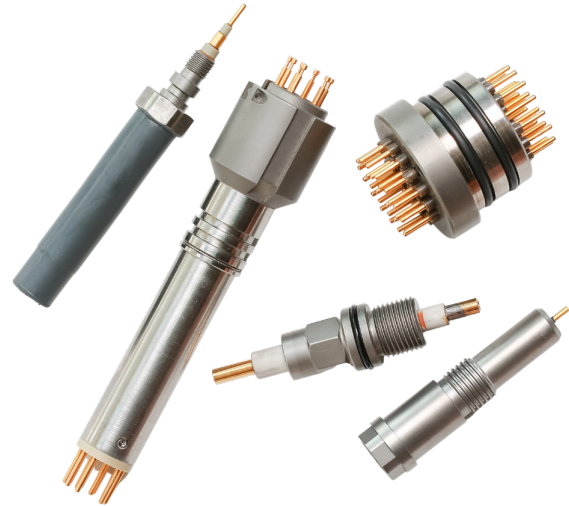
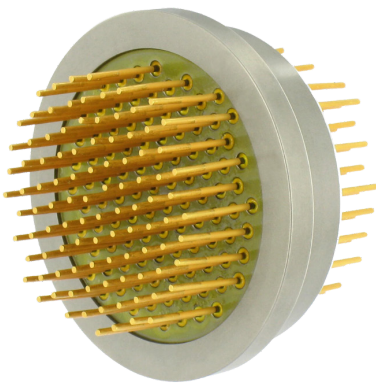
HP-HT Connectors

PA&E, A Qnnect company, manufactures high pressure, high temperature connectors and feed thrus that 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.

Technical Description

General Specifications

- Feedthru operational temperature: -50°C to +300°C
- Feedthru rated operational pressure: 0 to 30 KPSI
- Leak rate: 1.0×10^{-9} cc He/sec at 1 atmosphere
- Design safety factor at ambient: 5 to 2.0
- Design safety factor at operating temperature: 2.5-3.0
- Hydrophobic and moisture-resistant
- Embedded anti-vibration sealing mechanism
- ISO 10423 (API 6A, 16D & 17D) compliant
- NACE MR0175 compliant metallic elements
- FEA modeling and HPHT design expertise
- Design lifetime: 10, 15, 25 years
- Quality system registered to ISO 9001:2008 AS9001/C



Electrical Specifications

- Feedthru operational voltage: 5 to 20 KV
- Operating Current: 1.0A to 20A
- Custom designs for >20A high power feedthru
- Ambient insulation resistance: >100 TΩ @500VDC
- Insulation resistance at 200°C: >100 GΩ @500VDC
- Insulation resistance at 300°C: >5,000 MΩ @500 VDC
- Resistivity of sealing material: 1.45×10^{19} Ω-cm

Pin Material Options

- Inconel alloy X750, Kovar, Alloy 52
- BeCu, CrCu (high-power)
- Ti-alloy and Pt/Ir alloy (non-magnetic)
- Gold and nickel plating



For More Info:
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Header Material Options

- Inconel alloys [600, 625, 718, and X750]
- Stainless steel [SS304L, SS316L, 17-4PH, Nitronic]
- Kovar, titanium

Lab Testing Service Options

- Testing fluid: water or oil
- Feedthru testing pressure: 20, 25, 30, 35 KPSI
- Feedthru testing temperatures: 200, 260, 300°C
- Pressure shock testing: 10 cycles from 0 to Pmax
- Thermal shock testing: 10 cycles from -55°C to 200°C
- Pressure shock testing temperature: ambient and Tmax
- Testing duration at Pmax/Tmax: 24, 4A8, 100 hours

