



260° HTHP SOLUTIONS

High Continuous Operating Temperature Interconnects for Bottom Hole Electronic Components and Sensors

Standard circular and rectangular connectors are rated for +125°C due to elastomeric materials that cannot withstand higher temperatures and pressures. Glenair's extensive line of ThermaRex, hermetic HTHP, and Well-Master connectors are built to withstand temperatures as high as +200°C. Selected ThermaRex and single/multi-pin HTHP connectors are even able to withstand 300°C, and bottom-hole pressures up to 25K PSI. Designed for use in logging while drilling (LWD) and measurement while drilling (MWD) electronic modules and tools, these high-density, precision-machined rectangular and circular connectors are ideally suited for reliability and performance in the HTHP domain.

Glenair high-temperature high-pressure connectors and cables are 100% tested prior to shipment

MARKET REQUIREMENTS

- 260°C continuous operating temperature
- Minimum 10K PSI bottom-hole pressure rating
- Technologies backed by extensive research, development, and testing
- Test reports defining high-temperature operational time limits and maximum working pressure
- Small form-factor packaging in both printed circuit board, cable, and bulkhead configurations
- Corrosion-resistant materials

260° + SOLUTIONS

HTHP Connectors for Downhole Applications



Miniaturized circular and rectangular connectors and cables for rugged high-temperature oil & gas industry applications

PROVEN HIGH-TEMPERATURE HIGH-PRESSURE APPLICATIONS



Measurement While Drilling (MWD) tool module



Vibration dampening module



Pressure sensor transducer



LWD and MWD pulser

THERMAREX HIGH-TEMPERATURE TOLERANT CONNECTORS: SERIES 806, SUPERNINE, SERIES 79



ThermaRex high-temperature tolerant circular and rectangular connectors

- Service rating up to 300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction
- Available in Series 806 Mil-Aero, SuperNine® D38999 type, EN2997, or Series 79 Micro-Crimp rectangular connector styles
- Utilizes Glenair Crown Ring contacts
- 300°C ThermaRex single-ended and shielded twisted pair wire

HIGH-TEMPERATURE HIGH-PRESSURE (HTHP) SINGLE- AND MULTI-PIN TOOL JOINT CONNECTORS



Single- and multi-pin High Temperature/High Pressure (HTHP) glass-sealed penetrators and feedthroughs

- Available in 7 shell sizes and 17 insert arrangements
- Standard penetrators with hermeticity of $<1 \times 10^{-7}$ sccHe/sec @ 1 atmosphere differential and rated to 10,000 PSI
- High-pressure penetrators rated to 25,000 PSI and hermeticity of $<1 \times 10^{-8}$ sccHe/sec @ 1 atmosphere differential
- 300°C continuous operating temperature
- Low-resistance gold-plated Inconel contacts

WELL-MASTER 260° HIGH-DENSITY MICRO-D CONNECTOR FOR LOGGING / TEST TOOL APPLICATIONS



Well-Master® high temperature Micro-D connectors

- +260°C operating temperature
- Angled mounting ears to fit in small diameter instruments
- High reliability TwistPin contact system with special high-temperature alloy
- .050" pitch contact spacing for reduced size
- Solder cup, pre-wired or PCB