



EXTREME TEMPERATURE

# ThermaRex Interconnect Solutions

## Cryogenic and high-temperature tolerant connectors, cables, and conduit systems



### ThermaRex™

#### CONNECTORS

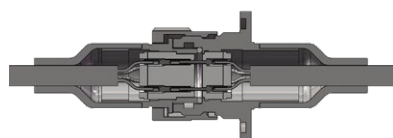
Sensor devices in aerospace engine applications are increasingly exposed to higher temperature operating environments. Environmental sensors in nuclear power reactors—an extremely high temperature and radiation-rich environment—are also exposed to temperature extremes well beyond the capabilities of conventional interconnect devices. Glenair ThermaRex interconnect solutions are designed to survive and excel in high continuous operating temperature application environments up to 600°C. The ThermaRex product family includes connectors, cables, and wire protection conduit systems.

#### 300°C THERMAREX HT CONNECTOR



- Service rating up to 300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction
- Available in Mighty Mouse, SuperNine® D38999, or EN2997
- Utilizes Glenair Crown Ring contacts

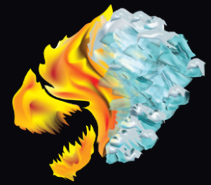
#### 600°C THERMAREX UHT CONNECTOR



- 300°C to 600°C service range
- Vibration-resistant threaded coupling
- Specialized contacts, laser welds, and metal seals
- Utilizes ultra-high temperature-tolerant Mineral Insulated cable
- Ideal for nuclear and other extreme temperature applications

# HIGH-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions

## Product showcase



ThermaRex™

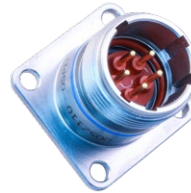
### -150°C THERMAREX CRYO CONNECTOR



ThermaRex™  
CRYO

- Dynamic cryogenic connector
- Vibration at -150°C
- Ultra low-temperature Duralectric K seals

### THERMAREX HIGH-TEMPERATURE HERMETIC



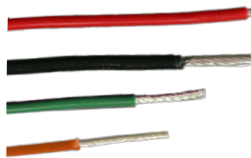
- High-temperature sealing technology maintains  $1 \times 10^{-7}$  leak-rate performance at 300°C

### CROWN RING CONTACTS



- Crimp removable contacts
- Suitable for use at 300°C or higher while maintaining low electrical resistance
- Stainless steel Crown Ring provides compression force on the socket
- Superior vibration resistance
- Higher current carrying capabilities, lower contact resistance

### 300°C THERMAREX WIRE



P/N 961-047 -  
Single Wire

P/N 960-2371 -  
Twisted, Shielded,  
Jacketed Pair

- Special nickel-coated copper alloy conductors
- 300°C continuous service
- 24 to 8 AWG, 10 colors of insulation
- Single-wires plus jacketed, shielded, twisted pair available

### 300°C THERMAREX POLYMER-CORE CONDUIT



P/N 120-100,  
Material Code R

- High-temperature-tolerant flexible polymer-core conduit
- All standard colors: Black, clear, orange, blue, yellow
- Qualification test report GT-17-261 available
- 300°C continuous service
- Available with high-temperature braid shield and/or jacket

### 300°C THERMAREX METAL-CORE CONDUIT



P/N 750-216,  
Jacket Code R

- Flexible passivated stainless steel core conduit
- High-temperature-tolerant ThermaRex jacket
- .127" to .250" outer diameter sizes
- 300°C continuous service

### ARMORLITE CF



P/N 103-126

- Stainless steel over copper microfilament EMI shield
- High temperature -80°C to 300°C
- Corrosion / harsh environment resistant
- 1000 hour salt spray testing completed
- 70% reduced weight vs. standard braid
- Superb electrical resistance and shielding performance