# HIGH TEMPERATURE TWO CONDUCTOR HARDLINE CABLE ASSEMBLY Model 6918M30



### **Product description**

The model 6918M30 is designed for use with high impedance differential piezoelectric accelerometers that utilize a 7/16-27 two-pin receptacle. The cable assembly is typically used in the turbo fan environment. The plug is hermetically sealed and features high force contact sockets that are rhodium plated. The twisted pair, hardline cable is insulated with compacted MgO, sheathed with stainless steel and covered with a corrosion resistant steel over braid.

A hermetically sealed plug (connector 2) is designed to mate with the differential piezoelectric accelerometer such as the Meggitt 6233C and 6243M3/M4 while the threaded receptacle (connector 1) mates with a 2001 type cable assembly or equivalent.

Model number definition: 6918M30-XXX XXX = cable length in inches Standard lengths in inches: 24,60,120, 240

### Key features and benefits

- For use with differential piezoelectric accelerometers
- Hardline cable operating temperature rated to 1200°F (649°C)
- Connector operating temperature rated to 900°F (482°C)
- Environmentally sealed
- Rugged and bendable
- Low noise
- RoHS compliant

#### **Applications**

- Test Cells/engine interface cable for differential accels
- General purpose Interface cable for differential accels



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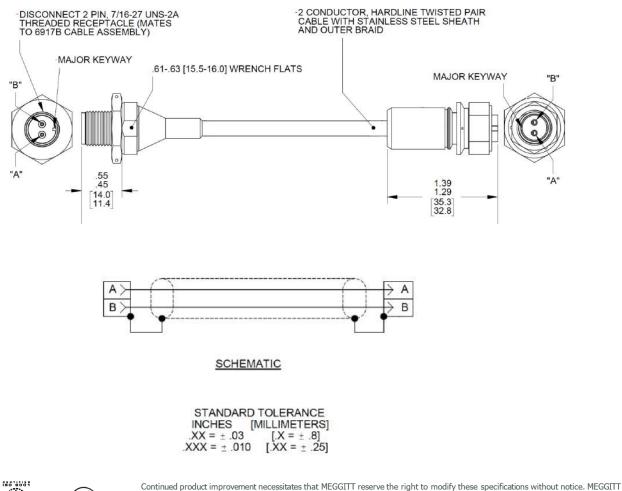
**Specifications** The following performance specifications are typical values, referenced at +75°F (+24°C) unless otherwise noted. **Characteristics** Units 6918M30 Connector Connector 1 (disconnect end) (3) 7/16-27 UNS-2A, receptacle **Dielectric material** Glass Shell and pin material Inconel Lock wire holes Optional Connector 2 (accelerometer end) 7/16-27 UNS-2B, plug **Dielectric material** Glass Pin material Inconel, Rhodium plated Housing and coupling nut material Inconel Torque lb-in (Nm) 60 (6.8) 22 Weight gms Lock wire holes No Cable Outer jacket 304L stainless steel Signal leads Inconel 600 solid wire Dielectric Compacted MgO Sheath Stainless steel Overbraid Stainless steel 0.25 (6.35) Diameter In (mm) Weight lbs (gms)/ft 0.04 (18.1) Bend radius (2) 0.8 (20.3) min In(mm) **Environmental** Temperature range Hardline section °F (°C) -65 (-54) to 1200 (649) -65 (-54) to 900 (482) Connector 1 (cable end) °F (°C) Connector 2 (accelerometer end) °F (°C) -65 (-54) to 900 (482) Humidity Sealed by metal to glass interface and threaded parts Electrical MΩ >50 Insulation resistance at room temperature, between leads (1) Insulation resistance at 900°F (482°C), MΩ >1 between leads Insulation resistance at room temperature, MΩ >50 either lead to shield (1) Insulation resistance at 900°F (482°C) between MΩ >1 either lead to shield Cable capacitance, between signal leads (1) pF/ft. (mtr) 80 (244) Cable capacitance, either lead to shield (1) pF/ft. (mtr) 110 (335)



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#### Notes

- 1. These parameters are 100% tested
- 2. One-time bend only
- 3. Mates with 2001 soft line cable assembly or equivalent
- 4. STEP file available on request
- 5. Specify as 6918M30-XXX where XXX = cable length in inches
- 6. The cable is inherently low noise by design. The signal leads are surrounded by tightly compacted MgO and the sheath is a stiff metal.



maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. 010121

