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DATA SHEET

High Temperature Two Conductor Hardline Cable Assembly

Model 6918M30



01 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 socketsthat 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

02 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

03 Applications

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

04 Contact

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

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06 Outline details



INCHES [MILLIMETERS] .XX = ± .03 [.X = ± .8] .XXX = ± .010 [.XX = ± .25]

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.



Continued product improvement necessitates that MEGGITT reserve the right to modify these specifications without notice. MEGGITT 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