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DATA SHEET

High Temperature Hardline Cable Assembly

Model 3075M6



01 Description

The Meggitt model 3075M6 is a low noise hardline cable assembly for use in high temperature environments. It is hermetically sealed for resistance to corrosion, humidity and other environmental contaminants. The outer jacket is constructed of 304L stainless steel and covered with a fiberglass sheath to prevent inadvertent grounding. This cable has a history of long-term reliability in both high temperature and nuclear reactor environments.

Both cable assembly ends are terminated into a glass fired 10-32 connector providing unparalleled strength and hermeticity. An optional 10-32 to 10-32 high temperature cable joiner is available (model 33268) for conjoining two 3075M6's into a single unit.

Model number definition: 3075M6-ZZZ 3075M6= basic model number ZZZ = cable length in inches

02 Key features and benefits

- Operating temperature to +900°F (+482°C)
- Rugged and bendable
- Full fiberglass sleeve to prevent inadvertent grounding
- Hermetically sealed

03 Applications

- For use with high temperature piezoelectric accelerometers
- Nuclear reactor environments

04 Contact

1-833-HITEMP1 TMCSR.MSSOC@meggitt.com

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HIGH TEMPERATURE HARDLINE CABLE ASSEMBLY, Model 3075M6

05 Specifications

The following performance specifications are typical values, referenced at +75°F (+24°C) unless otherwise noted.

	Units	3075M6
Connectors Connector 2 Dielectric material Pin material	in (mm)	10-32 NF, 0.230 dia. (5.84) Glass 304L stainless steel
Housing material Torque (1) Weight per connector Lock wire holes Cable Outer jacket and conductor	lb-in (Nm) gms	304 stainless steel Finger tight to 1.5 (0.17) 1.65 Yes 304L stainless steel
Center conductor material Dielectric Outer sleeving Diameter Weight Bend radius (3)	in (mm) gram/ft in (mm)	Nickel MgO Fiberglass 0.070 (1.76) 7.5 0.75 (19)
Environmental Maximum temperature cable and plugs Humidity Integrated Gama flux Integrated neutron flux	°F(°C) rad. N/cm²	900 (482) Hermetic 6.2 X 10 ¹⁰ 3.7 X 10 ¹⁸
Electrical Insulation resistance, room temperature (2) Insulation resistance at 900°F (482°C) Cable capacitance (2)	GΩ MΩ pF/ft.(mtr)	200 10 63 (206)

Optional Accessory: Model 33268 In-line cable adaptor rated to 1000°F (537°C). Allows connecting coaxial cables to one another.

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06 Outline details



LENGTH TOLERANCE TABULATION: Standard cable lengths in inches: 36, 60,120

Length inches (millimeters)	Tolerance inches (millimeters)	
Up to 12 (304.8)	+1.00 (25.4)	
12 to 36 (304.8 to 914.4)	+2.00 (50.8)	
36 to 120 (914.4 to 3.05 meters)	+4.00 (101.6)	
120 (3.05 meters)	+4.00 (101.6) per 120 (3.05 meters) or part there of	

Notes:

- 1. For high g shock and vibration the knurled nut should be tightened beyond finger tight. Use of the lock wire holes is also recommended to prevent the threads from backing out.
- 2. These parameters are 100% tested
- 3. STEP file available on request
- 4. Compacted MgO surrounds the center conductor. The outer sheath is made of a stiff material. Both of these factors prevent stressing thus the hardline cable is inherently low noise by design.



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