

Radiation Resistant Two Conductor Cable Assembly

Model 2001M1



01 Description

The MEGGITT Model 2001M1 is a Tefzel based jacketed, 2 conductor cable terminated with a two pin receptacle with 7/16-27 UNS-2A threads on both ends. It features rugged back shells and strain relief design for increased ruggedness and long term life.

The MEGGITT Model 2001M1 is an instrumentation cable assembly designed to carry sensitive signals in a vibration environment. The cable is designed to interface to differential accelerometers in environments with radiation-reactors with the 1772M2 remote charge converter on one end and the piezoelectric accelerometer on the other end.

Model number definition: 2001M1-XXX XXX = cable length in inches

02 Key features and benefits

- Operation to +392°F (+200°C)
- Torqueable coupling nut
- For use with differential accelerometers
- RoHS compliant
- Mates to the 1772M2 remote charge converter

03 Applications

- Test Cells/engine interface cable
- Nuclear reactors

04 Contact

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RADIATION RESISTANT 2 CONDUCTOR CABLE ASSEMBLY, Model 2001M1

05 Specifications

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

Characteristics	Units	2001M1
Capacitance, nominal Cable	pF/ft.	80
Resistance, minimum Signal leads	GΩ	1
Signal lead to shield	GΩ	1

Physical

Conductor

Size AWG 20

Material Nickel-plated annealed copper weld

Primary Insulation

Tefzel- black and white

Shield 38 AWG nickel-plated copper Jacket Material/Color Tefzel/Grey

JacketMaterial/ColorTefzel/GreyOverall diameterinch (mm).23 (5.8)Weight, nominalpounds / ft..04Bend radius, min.inch (mm).60 (15.2)

Connector

Coupling Nut Nickel plated aluminum
Insulators Alumina Ceramic

Sockets (#20) Gold plated nickel alloy

Clamp Hardware Stainless Steel

O-Ring & Grommet High Temp Silicone Rubber

Environmental

Temperature $^{\circ}$ F ($^{\circ}$ C) $^{-65}$ (-54) to +392 (+200)

Radiation

Integrated Neutron Flux Up to 3.7 x 1018 neutrons/cm2

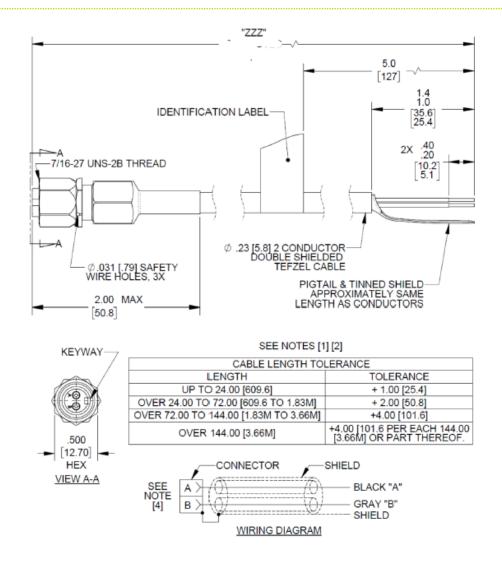
Contamination O-ring sealed to exclude fuel, oil, humidity, sand or dust



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06 Outline details



NOTE:





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, support of stringent Quality Control requirements, and compulsory corrective action procedures. 032624

Note: Due to continous process improvement, specifications are subject to change without notice. TCO Review #321