## RADIATION RESISTANT TWO CONDUCTOR CABLE ASSEMBLY

Model 2001M1



#### **Product description**

The Parker 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 Parker 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

#### 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

#### **Applications**

- Test Cells/engine interface cable
- Nuclear reactors



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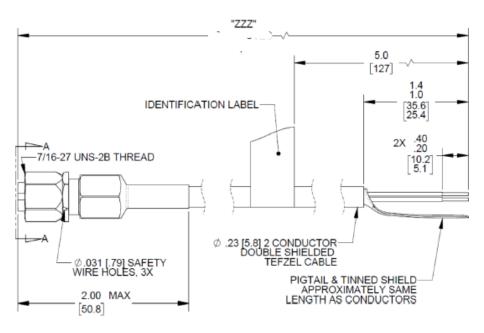
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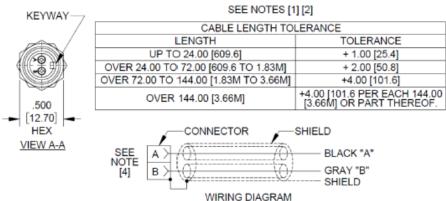
Specifications			
The following performance specifications are typical values, referenced at +75°F (+24°C) unless otherwise noted.			
Characteristics	Units	2001M1	
Capacitance, nominal			
Cable	pF/ft.	80	
Resistance, minimum			
Signal leads	GΩ	1	
Signal lead to shield	GΩ	1	
Physical			
Conductor			
Size	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	
Overall diameter	inch (mm)	.23 (5.8)	
Weight, nominal	pounds / ft.	.04	
Bend 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	°F (°C)	-65 (-54) to +392 (+200)	
Radiation	. ,	, , , ,	
Integrated Gamma Flux	Up to $6.2 \times 10^{10}$ rad		
Integrated Neutron Flux	Up to 3.7 x 10 <sup>18</sup> neutrons/cm2		
Contamination	O-ring sealed to ex	O-ring sealed to exclude fuel, oil, humidity, sand or dust	



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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

