

## DATA SHEET

# High Temperature Coaxial Cable Assembly

## Model 1001/1001M1



### 01 Description

The MEGGITT Model 1001 is a low noise, Teflon jacketed, coaxial cable with stainless steel, hermetic connectors. It features a rugged back shell, strain relief design for increased ruggedness and long term life. The cable design and material selection allows for higher temperature use.

It is designed specifically for piezoelectric accelerometers with high impedance outputs for use in severe environments.

The MEGGITT Model 1001M1 is an instrumentation cable assembly designed to carry sensitive signals in a vibration environment. It is terminated on one end with a standard 10-32 stainless steel, glass sealed connector and a BNC plug on the other. The cable is designed to interface to transducers and amplifiers with a 10-32 connector to laboratory test equipment and accessories. The cable is treated to suppress tribo-electric noise.

Model number definition:

1001-XXX

1001= 10-32 connector both ends

1001M1= 10-32 one end BNC other end

XXX = cable length in inches

### 02 Key features and benefits

- Operation to +550°F (+288°C)
- Torque able coupling nut

### 03 Applications

- Test Cells/engine interface cable
- General purpose Interface transducer to amplifier

### 04 Contact

1-833-HITEMP1

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HIGH TEMPERATURE COAXIAL CABLE ASSEMBLY, Model 1001/1001M1

05 Specifications

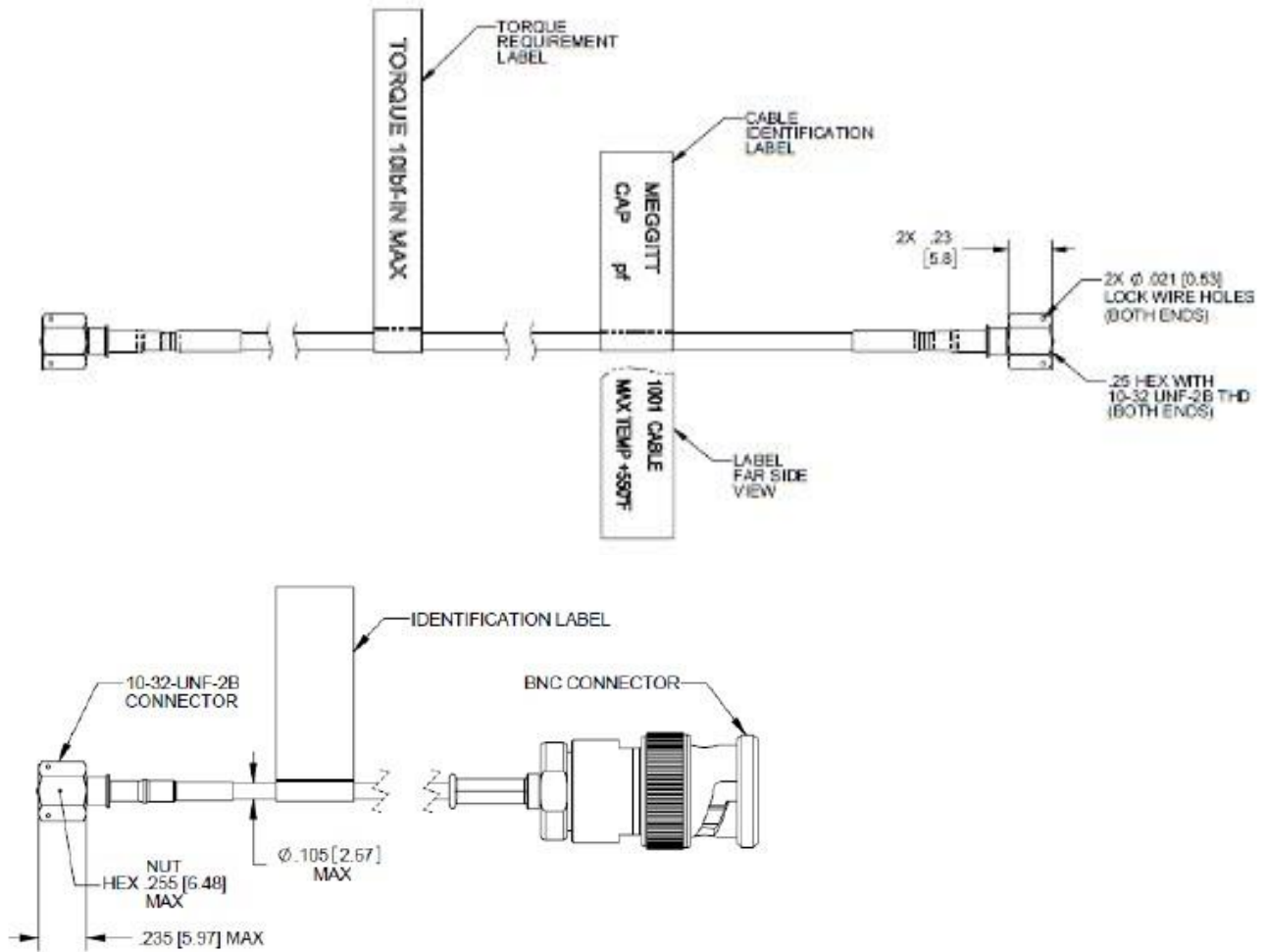
The following performance specifications are typical values, referenced at +75°F (+24°C) unless otherwise noted.

Characteristics	Units	1001	1001M1
Capacitance, nominal			
Cable	pF/ft		40
Connectors	pF each		≤3
Resistance, nominal	Ω-ft		
Center conductor			0.5
Shield			0.2
Conductor			
Size	AWG		30
Material			Nickel-plated annealed copper weld
Primary Insulation			Teflon noise treated
Shield			38 AWG nickel-plated copper
Jacket	Material/Color		Teflon/White
Overall diameter	inch (mm)		.105 (2.7)
Weight, nominal	gm (oz) / ft		3.3 (.12)
Bend radius, min.	inch (mm)		.85 (21.6)
Torque (Hex Connector Nut)			10 lbf-in Maximum
Tensile strength, minimum			
Cable - no load on			20 pounds
Cable to connector			10 pounds
Type		10-32 to 10-32	10-32 to BNC plug
Temperature	°F (°C)		
Cable			-148°F to +550°F (-100°C to +288°C)
10-32 connector			-148°F to +550°F (-100°C to +288°C)
BNC connector			-85°F to +330°F (-65°C to +165°C)
Noise			1.5 pk-pk pC

**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**



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, the support of stringent Quality Control requirements, and compulsory corrective action procedures. 010121