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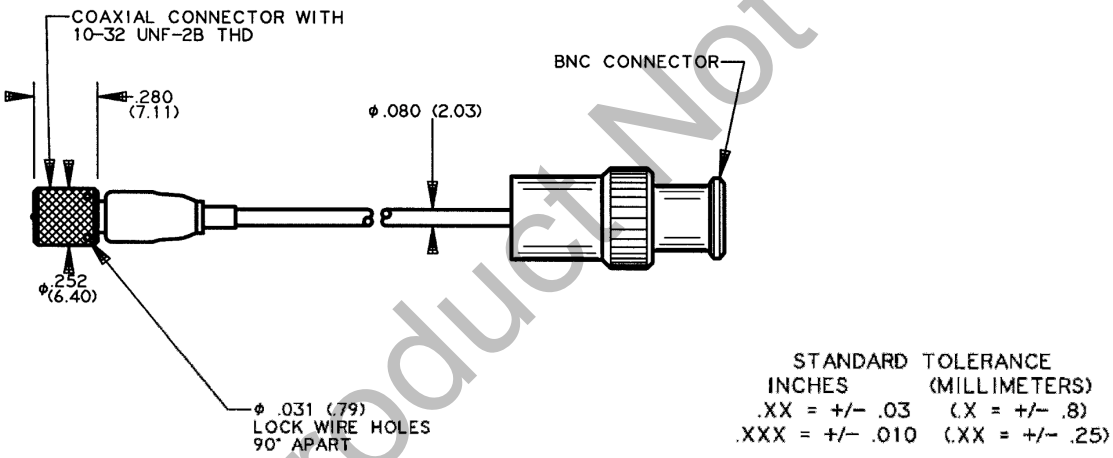
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ENDEVCO
AN AMPHENOL COMPANY

ISOTRON® (IEPE) flexible accelerometer cable

Model 3061A





STANDARD TOLERANCE	
INCHES	(MILLIMETERS)
.XX = +/- .03	(.X = +/- .8)
.XXX = +/- .010	(.XX = +/- .25)

Key features

- 10-32 to BNC connectors
- Glass-to-metal seal on 10-32 connector
- Flexible silicone jacket
- Designed for the shock and vibration environment

Description

The 3061A coaxial cable assembly is designed specifically for use with IEPE accelerometers with a 10-32 female socket. A BNC plug, at the instrumentation end is compatible with many signal conditioners and data acquisition equipment.

The cable outer jacket is made of extruded silicone providing high flexibility and moisture protection. The center conductor consists of Teflon insulated stranded wire for exceptional reliability. Endevco's exclusive 10-32 connector is made of stainless steel with a glass-to-metal seal, an industry exclusive, to protect it from moisture. The 10-32 plug's center pin is welded to the cable's center conductor providing high pull strength and low noise.

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ISOTRON® (IEPE) flexible accelerometer cable | Model 3061A

The following specifications are typical and taken at approximately 75°F (24°C) unless otherwise noted.

Specifications

Connectors	Units	3061A
Connector 1 (accelerometer end)		10-32 NF plug
Dielectric material		Glass
Pin material		304L stainless steel
Connector material		304 Stainless steel
Strain relief material		Fluorosilicone rubber
Weight	gms	1.70
Torque	lb-in (Nm)	1.5 (0.17Nm) or finger tight
Lock wire holes		Yes
Connector 2 (instrumentation end)		
Type		BNC plug
Cable		
Color		Natural
Outer Jacket		Extruded silicone
Center conductor	AWG	#30 stranded
Center conductor material		Silver plated annealed copper weld
Center conductor Insulation		Teflon
Cable type		Coaxial
Diameter inches (mm)	in (mm)	0.080 (2.03)
Shield material		Silver plated copper
Weight, cables only	gms/ft	3.3
Bend radius	in (mm)	0.85 (22)
Raw cable		PN33449
Environmental		
Minimum temperature	°F (°C)	-67 (-55)
Maximum temperature °C / °F	°F (°C)	392 (200)
Pin pull out (10-32)	lbs (kg)	20(9)
Shock	g peak	10 000
Random	g rms	20.7
Sinusoidal vibration	g peak	1,000
Electrical		
Capacitance	pF/ft	28 typ
Insulation resistance at 500Vdc (1)	GΩ	50, up to 500 ft

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Accessories	
Length inches (millimeters)	**Tolerance inches (millimeters)**
Up to 12 (305)	+ 1.0 (25)
13 to 36 (305 to 914)	+2.0 (51)
37 to 120 (939.8 to 3.05 meters)	+4.0 (102)
Over 120 (3.05 meters)	+4 (102) per 120 (3048) or part thereof +12 (305) = maximum tolerance

Notes

1. These parameters are 100% tested

Notes

1. Specify as 3061A-XXX where XXX = length of cable assembly in inches
2. Standard lengths, in inches, are: 12, 24, 36, 120, 240, 360, 600
3. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products

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