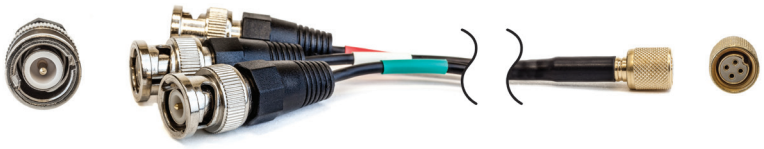
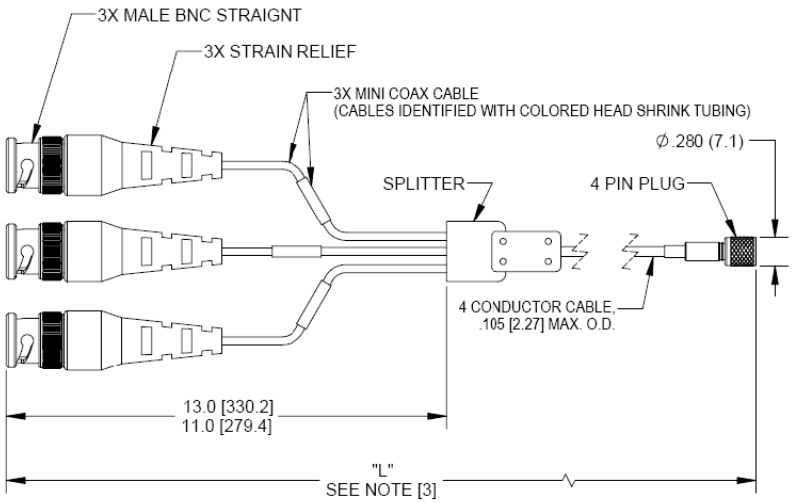
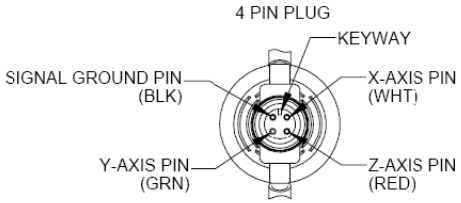
ENDEVCO
AN AMPHENOL COMPANY

Triaxial IEPE Accelerometer Cable

Model 3027AM3







Key features

- For use with IEPE accelerometers
- 1/4-28 4-socket plug breaks out to three BNC plugs
- Designed for the shock and vibration environment

Description

The 3027AM3 cable assembly provides interconnection between an IEPE accelerometer and measurement instrument. The accelerometer end of the assembly is made up of a lightweight 4-conductor shielded cable and a ¼-28, 4-socket plug to reduce mass loading. The instrumentation end consists of three rugged cables terminated with three BNC straight plugs. Each plug is color-coded to identify the respective measurement axes.

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All values taken at room temperature, approximately 75°F (24°C) unless otherwise noted.

Specifications

Connector characteristics	3027AM3
Connector 1 (Accelerometer end)	¼-28 UNF 4-socket plug
Dielectric material	PEEK
Connector material	Gold plated brass
Torque	1.5 in-lbf (0.17 Nm)
Weight	3.0 grams
Lock wire holes	No
Connector 2 (Instrumentation end)	3X, BNC straight plug
Cable characteristics	
Cable 1 (Accelerometer end)	
Cable type	Four conductor
Jacket	Black polyvinyl chloride (PVC)
Shield	Aluminized polyester tape (aluminum side in)
Primary insulation	Polyvinyl chloride (PVC)
Conductor	28 awg (10/38) tinned plated copper
Diameter	0.105 in (2.27 mm)
Bend radius	1.05 in (22 mm)
Cable 2 (Instrumentation end)	
Cable type	Coaxial
Jacket	Black polyvinyl chloride (PVC)
Shield	Tinned copper braid
Primary insulation	Polyethylene
Conductor	26 awg (7/34) bare copper clad steel
Diameter	0.105 in (2.27 mm) maximum
Bend radius	1.0 in (25 mm)
BNC cable color markers	
White	X axis
Green	Y axis
Red	Z axis
Environmental characteristics	
Minimum temperature	-67°F (-55°C)
Maximum temperature	185°F (85°C)
Sinusoidal vibration	1000 g peak maximum
Shock	10,000 g peak maximum
Electrical characteristics	
Capacitance, conductor to conductor	30 pF/ft typical
Insulation resistance	1.0 GΩ minimum

Length tolerance tabulation

Length inches (millimeters)	Tolerance inches (millimeters)
<12 (305)	+1.0 (25.4)
12 (305) to 60 (1524)	+2.0 (50.8)
>60 (1524) to 1200 (30,480)	+6.0 (152)
>1200 (30,480)	+12.0 (305)

Notes

1. Cable length "XXX" will be indicated by slash number; i.e., 3027AM3/072 is a cable assembly 72 inches long. Minimum length is 18 inches long.

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