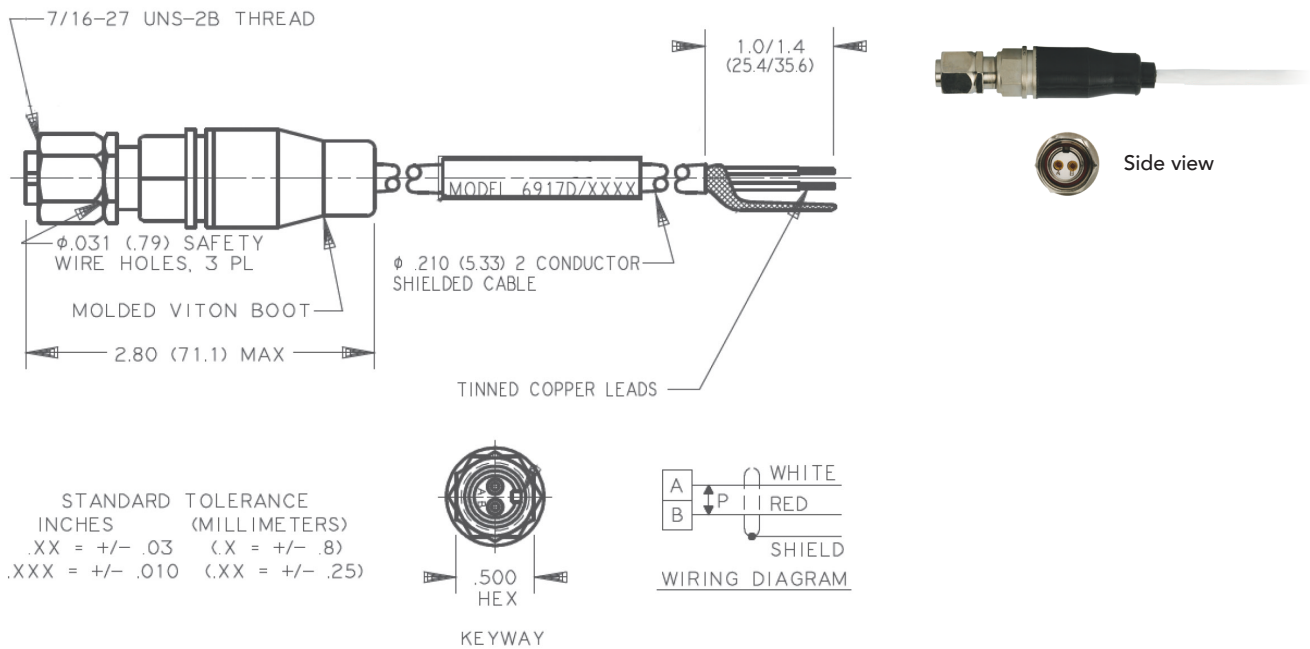


Two conductor, shielded low-noise cable assembly

Model 6917D



Key features

- For use with differential high impedance output piezoelectric accelerometers
- Critical parameters 100% tested
- Continuous use up to 550°F (288°C), intermittent 660°F (315°C)
- Ideal for use in engine test cells

Description

The 6917D is a low-noise cable assembly consisting of a twisted pair of low-noise treated Teflon wires and an outer shield. The rugged plug features a specially designed assembly with high force contacts and alumina inserts for high temperature operation. A molded Viton splash-proof boot protects the connector from moisture, oil and other contaminants.

The opposite end of the cable is terminated in pigtailed. The stranded wire is tinned and the low-noise treatment is removed at the cable's end for user convenience.

This cable is typically used in turbofan environments at temperatures up to 550°F (288°C).

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

Specifications		
Connector	Units	6917D
Connector 1, accelerometer end		7/16-27 UNS-2B, plug, female
Dielectric material		Alumina ceramic
Socket material		Gold plated nickel alloy
Coupling nut, shell and clamp		Nickel plated alloy
Retaining ring and clamp hardware		Stainless steel, passivated
O ring and grommet		High temperature fluoroelastomer and polyimide
Weight (Connector)	gms	30
Torque	lb-in (Nm)	0.60 (0.07)
Safety wire holes		Yes
Connector 2, instrumentation end		Pigtails
Cable		
Color (2)		White
Outer Jacket Material		TFE
Cable diameter	in (mm)	0.210 (5.33)
Type		Twisted pair, shielded
Signal lead insulation material		Red and White low noise treated TFE Teflon
Signal lead construction		Stranded
Signal material		Nickel plated annealed copper
Signal lead size	AWG	20 (19/32)
Shield material		Braided nickel plated annealed copper
Weight	lbs/ft (gms/mtr)	0.03 (45)
Bend Radius	in (mm)	0.60 (12.7)
Raw cable		(6967) 30779
Environmental		
Minimum temperature, continuous	°F (°C)	-65 (-54)
Maximum temperature, continuous	°F (°C)	550 (288)
Maximum temperature, intermittent	°F (°C)	600 (315)
Electrical		
Noise (1)	pC pk-pk	1.5
Capacitance between signal leads (1)	pF/ft	80 max
Capacitance between either signal lead to shield (1)	pF/ft	150 max
Resistance between signal leads (1)	GΩ	1 min
Resistance between either signal lead to shield (1)	GΩ	1 min

Length tolerance tabulation	
Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (304.8)	+ 1.0 (25.4)
13 to 36 (330.2 to 914)	+2.0 (50.8)
37 to 120 (939.8 to 3.05 meters)	+4.0 (101.6)
Over 120 (3.05 meters)	+4 (101.6) per 120 (3.05) or part thereof (+12 (3.05) = maximum tolerance)

Notes

1. These parameters are 100% tested.
2. Small color variations may occur during normal batch processing, but have no impact on product performance.

Ordering Information

1. Specify as 6917D/XXX where XXX = Cable length in inches
2. Standard lengths, in inches, are: 120, 240, 360 and 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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