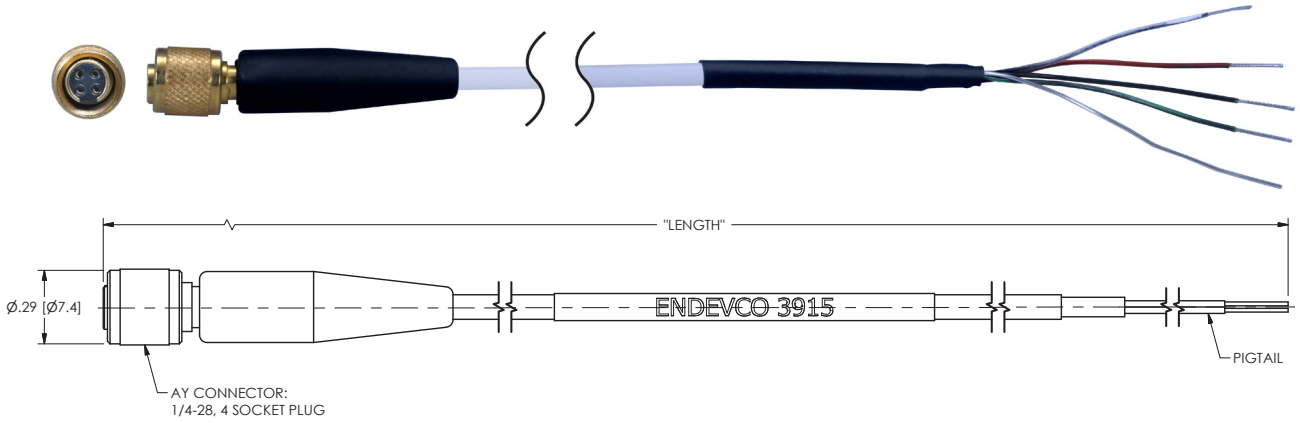
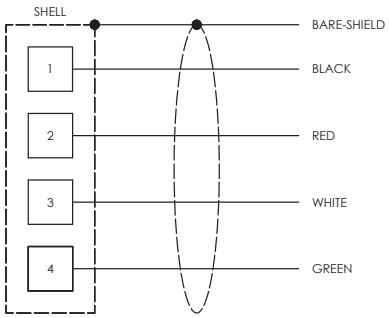
ENDEVCO
AN AMPHENOL COMPANY

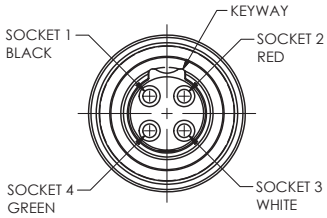
Four-conductor, low noise, shielded cable assembly

Model 3915



SCHEMATIC DIAGRAM





Key features

- Designed for high-shock environments
- Low noise and high flexibility
- Mates with the model 2262B Accelerometer

Description

The 3915 cable assembly is designed for use with Endevco Model 2262B piezoresistive accelerometers. This assembly features the existing 1/4-28 4-socket connector found on PCB branded cables, so this assembly can also be used with PCB's other 1/4-28 4-pin sensors.

One end of this low noise, shielded four conductor assembly features a mating 4-socket plug. The other end of the cable is terminated in tinned pigtails allowing the users to add a connector of their choice. The silicone jacket provides optimal flexibility, high reliability and is water resistant. The shield is connected to the mating connector's body.

Cable motion can generate static build-up of charge between the various elements of a cable. Static charges in a cable can flow through to the conductors, and appear in an accelerometer's output. This cable assembly utilizes a layer of graphite coating over each conductor to dissipate charge. This mitigation of charge buildup means the cable is far less likely to transmit an artificial signal from cable motion.

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

Specifications

Dynamic characteristics	Units	3915
Connector 1 (accelerometer end)		1/4-28, 4-socket plug
Socket material		Gold plated brass
Dielectric material		PBT
Connector material		Gold plated brass
Strain relief material		Santoprene
Lock wire holes		No
Connector 2 (instrumentation end)		Tinned pigtails
Cable		
Color (1)		White
Outer jacket material		Silicone rubber
Signal wire material		Silver plated copper
Signal wire size	AWG	28 (19/40)
Signal wire insulation material		PFA
Cable type		4-conductor, low noise, shielded
Diameter	in (mm)	0.097 (2.46)
Shield material		Silver plated copper
Wire type		Stranded
Weight, cable only	gms/ft	4.25
Bend radius	in (mm)	1.0 (24.6)
Raw cable part number		74346-01
Environmental		
Minimum temperature	°F (°C)	-76 (-60)
Maximum temperature	°F (°C)	250 (121)

Length tolerance tabulation

Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (304.8)	+ 1.0 (25.4)
>12 (304.8) to 60 (1524)	+2.0 (50.8)
>60 (1524) to 1200 (30,480)	+6.0 (152.4)
>1200 (30,480)	+12.0 (304.8)

Notes

1. Small color variations may occur during normal batch processing but will have no impact on product performance.

Ordering information:

1. Specify as 3915/XXX where XXX = cable length in inches
2. Standard length, in inches: 30, 120
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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