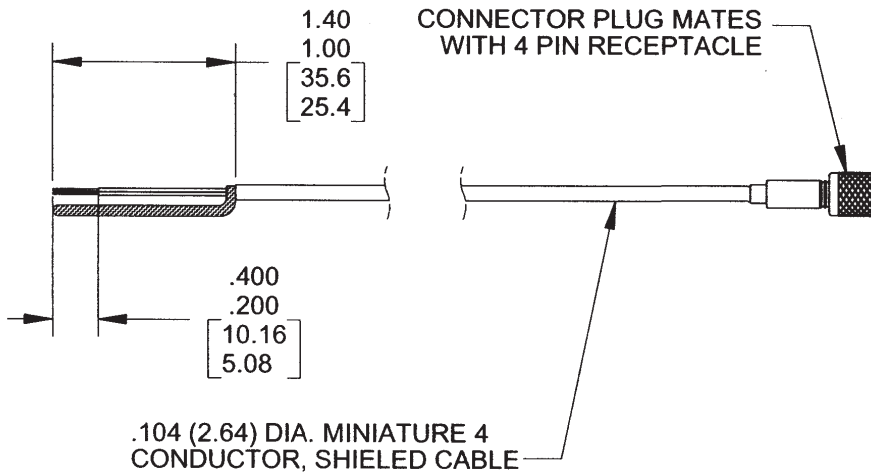
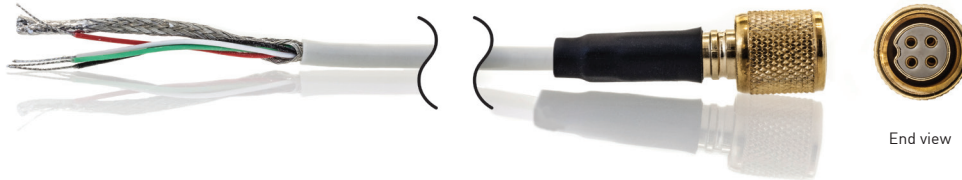


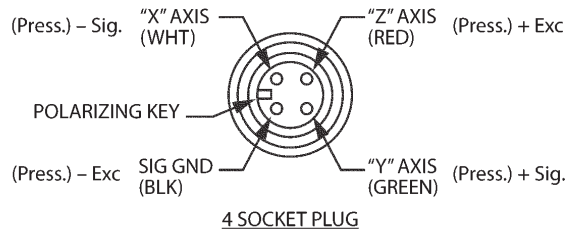
## Sensor cable assembly

### Model 3027A



**STANDARD TOLERANCE**

INCHES	(MILLIMETERS)
.XX = ± .03	(.X = ± .8)
.XXX = ± .010	(.XX = ± .25)



### Key features

- Designed for the shock and vibration environment
- Terminated in pigtails
- Lightweight and rugged

The 3027A cable assembly is designed for use with Endevco brand low-impedance triaxial accelerometers, Model 771 variable capacitance accelerometers and integral connector (M37) versions of 8500 series pressure transducers. One end of the assembly features a mating 4-pin 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 and is water resistant. The shield is soldered to the connector's body

## Sensor cable assembly

### Model 3027A

#### Specifications

All values taken at room temperature, approximately 75°F [24°C].

	Units	3027A
<b>Connector</b>		
Connector 1 (accelerometer end)		¼-28 NF, 4-pin plug
Dielectric material		Teflon
Connector material		Gold plated brass
Strain relief material		Silicone rubber
Torque	in-lb (Nm)	5 (0.6)
Weight	gms	2.2
Lock wire holes		No
Connector 2 (instrumentation end)		Tinned pigtailed
<b>Cable</b>		
Color (3)		White
Outer jacket material		Silicone rubber
Signal wire material		Silver plated copper
Signal wire size	AWG	32
Signal wire insulation material		PFA Teflon
Cable type		4-conductor, shielded
Diameter	in (mm)	0.104 [2.64]
Shield material		Tin plated copper
Wire type		Stranded
Weight, cable only	gms/ft	4.5
Bend radius	in (mm)	0.5 [12.7]
<b>Environmental</b>		
Minimum temperature	°F [°C]	-148 [-100]
Maximum temperature	°F [°C]	257 [125]
Sinusoidal vibration	g peak	MIL-STD-202A, Method 204, Test Condition B
Shock	g peak	MIL-STD-202, Method 202
<b>Electrical</b>		
Capacitance, conductor to conductor	pF/ft	16
Capacitance, conductor to shield	pF/ft	27
Insulation resistance (1)	GΩ	1.0, minimum at 100V
Raw cable part number		24328-3

## Sensor cable assembly

### Model 3027A

#### Length tolerance tabulation

Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (304.8)	+ 1.0 (25.4)
>12 (304.8) to 36 (914.4)	+2.0 (50.8)
>36 (914.4) to 120 (3.05 meters)	+4.0 (101.6)
>120 (3.05 meters)	+4.0 (101.6) per 120 or portion thereof

#### Notes

1. Parameter is 100% tested
2. STEP file available on request
3. Small color variations may occur during normal batch processing but will have no impact on product performance.

#### Ordering Information:

1. Specify as 3027A-XXX where XXX = cable length in inches
2. Standard length, in inches: 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.

#### Contact

##### ENDEVCO

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