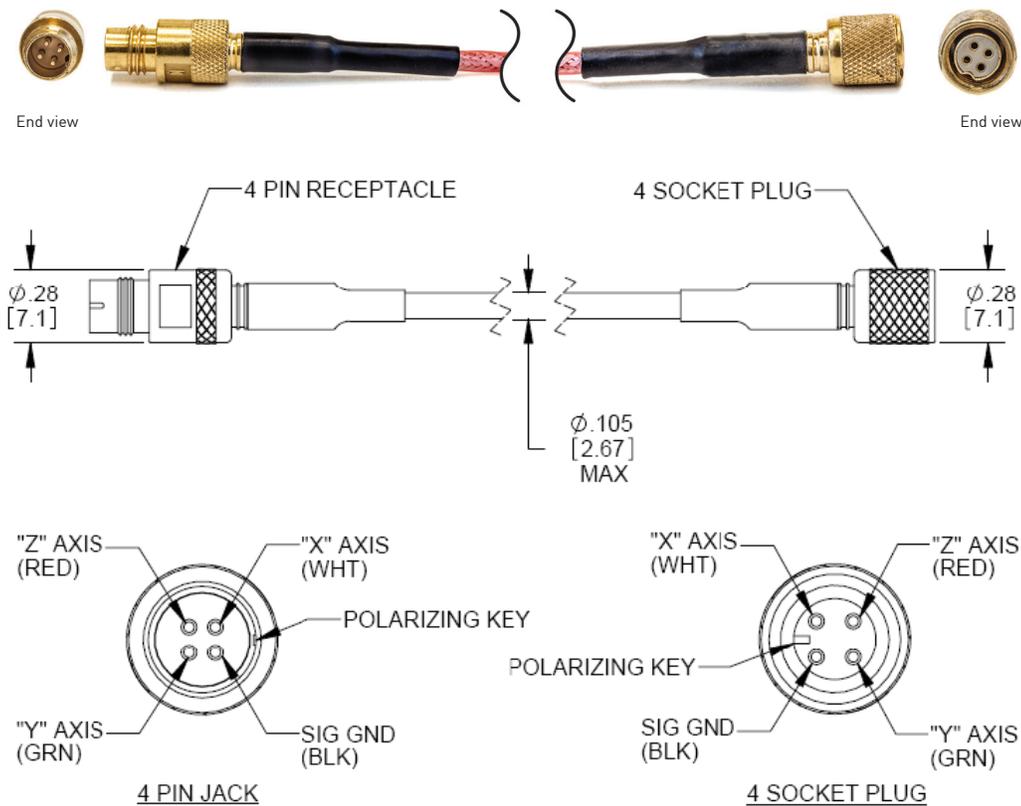


IEPE (Isotron®) triaxial extension cable

Model 3027AVM13

Key features

- Recommended for use with high temperature triaxial Isotron accelerometers
- Lightweight and rugged
- Wide temperature range
- Designed for the shock and vibration environment



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

Model 3027AVM13 is an extension cable assembly designed to mate with Endevco brand triaxial accelerometers. The receptacle end joins with the 3027A series breakout cables. The cable assembly's maximum temperature of 392°F (200°C) makes it suitable for both standard and high temperature Isotron triaxial accelerometers.

Endevco's exclusive VersaFLEX™, highly flexible cable guards against moisture ingress while providing years of reliable operation.

IEPE (Isotron®) triaxial extension cable

Model 3027AVM13

Specifications

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

	Units	3027AVM13
Connectors		
Connector 1 (transducer end)		¼-28 UNF, 4-pin straight, female plug
Dielectric material		Peek
Connector material		Gold plated brass
Strain relief material		Viton
Torque	in-lb (Nm)	4 [0.45]
Weight	gms	3
Lock wire holes		No
Connector 2 (instrumentation end)		¼-28 UNF, 4 pin straight, male receptacle
Dielectric material		Peek
Connector material		Gold plated brass
Strain relief material		Viton
Torque	in-lb (Nm)	4 [5.4]
Weight	gms	3
Lock wire holes		No
Cable		
Color (3)		Translucent red
Outer jacket material		PFA Extruded Teflon
Signal lead construction		Stranded
Signal lead material		Silver plated copper
Primary insulation		PFA Teflon
Cable type		4 conductor shielded
Conductor size	AWG	28
Cable diameter	in (mm)	0.105 [2.67], max
Shield material		Silver plated copper
Weight, cable only	gms/ft	3.2
Bend radius	in (mm)	0.79 [20.1]
Environmental		
Minimum temperature	°F [°C]	148 [-100]
Maximum temperature	°F [°C]	395 [200]
Pull strength	lb (kg)	20 [9] typ. 15 [6.8] min
Sinusoidal vibration	g peak	1000
Shock	g peak	10,000
Electrical		
Capacitance, conductor to conductor	pF/ft	16
Insulation resistance [1]	GΩ	1.0, minimum

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Model 3027AVM13

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 3027AVM13-XXX where XXX = cable length in inches
2. Standard lengths, in inches are: 84, 120, 240, 360, 600
3. Maintain high levels of precision and accuracy using Endeveco's factory calibration services. Call Endeveco'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

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