

## Multi-Purpose mini-MIL Accelerometer, Side Exit Connector/Cable, 100 mV/g

SECTION I - VIBRATION SENSORS  
Accelerometers - 100 mV/g

Actual Product Size Shown

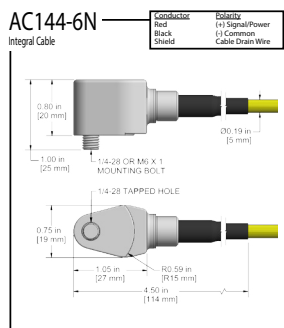
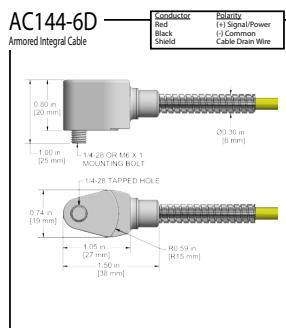
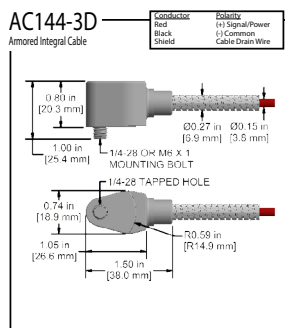
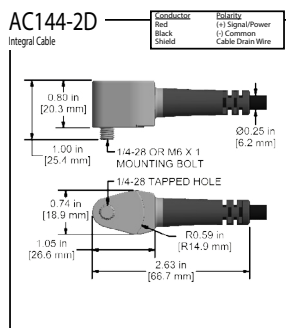
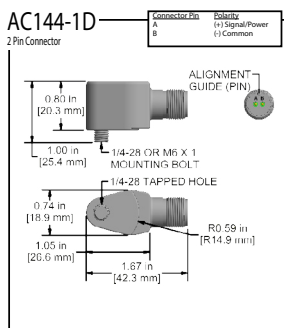


### mini-MIL Must Use J2X Series Connectors Product Features

**Low-Cost Small Accelerometer, Great for Hard-to-Reach Locations!**

**Industrial Accelerometer, Perfect for Many Applications**

- $\pm 50$  g, Peak Dynamic Range
- 100 mV/g Sensitivity
- mini-MIL Side Connector



Specifications	Standard	Metric
Part Number	AC144	M/AC144
Sensitivity ( $\pm 15\%$ )		100 mV/g
Frequency Response ( $\pm 3$ dB)	36-600,000 CPM	0.6-10000 Hz
Dynamic Range	$\pm 50$ g, peak	
<b>Electrical</b>		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	30 $\mu$ g/ $\sqrt$ Hz	
Spectral Noise @ 100 Hz	4 $\mu$ g/ $\sqrt$ Hz	
Spectral Noise @ 1000 Hz	2 $\mu$ g/ $\sqrt$ Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth (w-2D/3D)	200 ft.	60 m
<b>Physical</b>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	2.1 oz	60 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin mini-MIL, J Series Connectors	
Resonant Frequency	1,920,000 CPM	32000 Hz
Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

### Ordering Information

Standard	AC144-1D (1/4-28 Captive Bolt)	AC144-2D / (1/4-28 Captive Bolt) (length in feet) (termination)	AC144-3D / (1/4-28 Captive Bolt) (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC144-1D (M6x1 Captive Bolt)	M/AC144-2D / (M6x1 Captive Bolt) (length in meters) (termination)	M/AC144-3D / (M6x1 Captive Bolt) (maximum armor length 30 m) (cable length in meters) (termination)

Cable Terminations: E, EX F, FX L Z

Backed by our Unconditional Lifetime Warranty

