

# AC184 Series

Multipurpose Accelerometer, Side Exit 2 Pin Connector, M8x1.25  
Captive Bolt, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



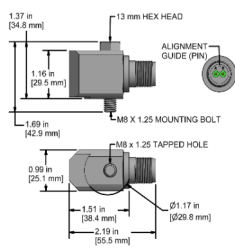
## Product Features

- Perfect for M8 Mounting Applications
- High Performance in a Low Cost Sensor
- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80 g, peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

### AC184-1A

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common

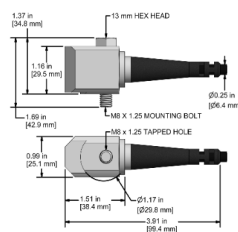


Stock Product

### AC184-2C

CB103 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

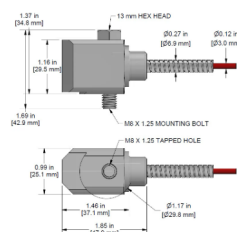


Built To Order

### AC184-3C

CB206 Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

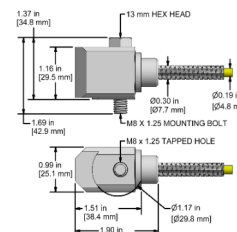


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### AC184-6C

CB611 Heavy Duty Armored Integral Cable

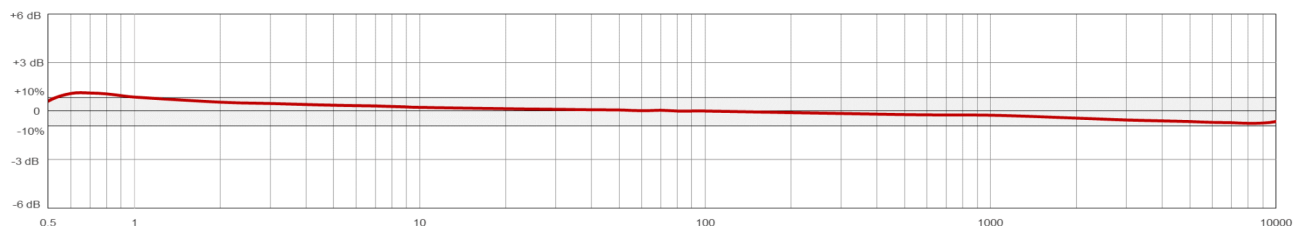
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	<u>Environmental</u>		
Frequency Response (±3dB)	30-600,000 CPM		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	120-300,000 CPM		Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Electromagnetic Sensitivity		CE
<u>Electrical</u>			Sealing		Welded, Hermetic
Settling Time		<2.5 seconds	Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)		18-30 VDC	SIL Rating		SIL 2
Constant Current Excitation		2-10 mA	<u>Physical</u>		
Spectral Noise @ 10 Hz		14 µg/√Hz	Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz		2 µg/√Hz	Weight	6 oz	170 grams
Output Impedance		<100 ohm	Case Material		316L Stainless Steel
Bias Output Voltage		10-14 VDC	Mounting Thread		M8x1.25
Case Isolation		>10 <sup>8</sup> ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
			Resonant Frequency	1,200,000 CPM	20000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6.8 Nm
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

[www.ctconline.com](http://www.ctconline.com) | [sales@ctconline.com](mailto:sales@ctconline.com) | 585-924-5900