

AC117 Series

High G Measurement Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



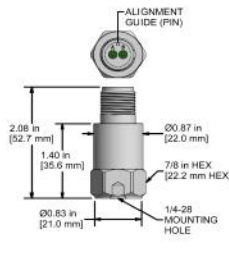
Product Features

- 50 mV/g General Purpose Sensor
- Excellent for Higher g Applications
- ▶ ± 100 g, Dynamic Range
- ▶ 50 mV/g, $\pm 10\%$ Sensitivity
- ▶ 1,0-12500 Hz (60-750,000 CPM)

AC117-1A

2 Pin Connector

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

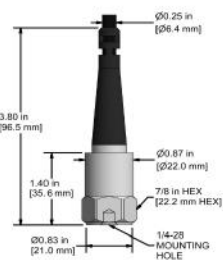


Stock Product

AC117-2C

CB103 Integral Cable

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

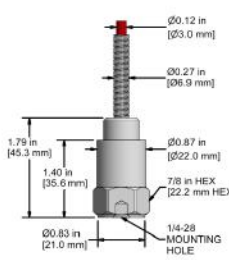


Built To Order

AC117-3C

CB206 Armored Integral Cable

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

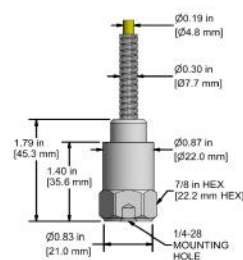


Built To Order

AC117-6C

CB611 Heavy Duty Armored Integral Cable

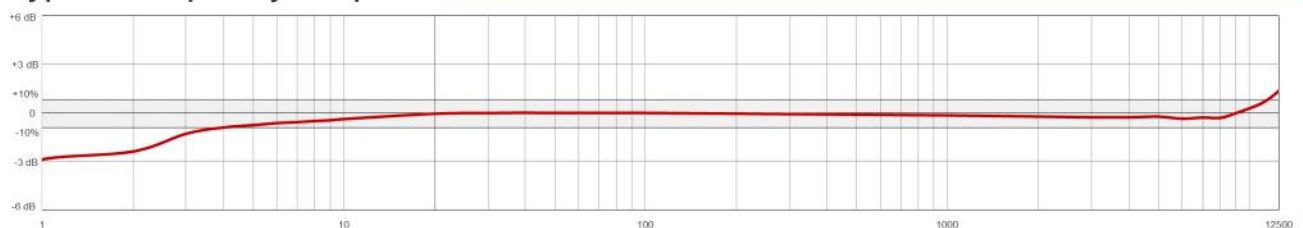
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC117	M/AC117	Environmental		
Sensitivity ($\pm 10\%$)		50 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	240-540,000 CPM	4,0-9000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 100 g, peak	Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	60 m
Settling Time		<2 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-30 VDC	Physical		
Constant Current Excitation		2-10 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		8 $\mu\text{g}/\sqrt{\text{Hz}}$	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2.5 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz		1.7 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		1/4-28 Blind Tapped Hole
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation		>10 ⁸ ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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AC118 Series

High G Measurement Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

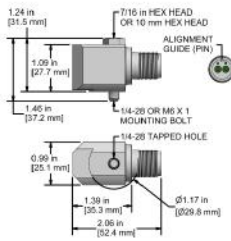
50 mV/g General Purpose Side Exit Sensor

Excellent for Higher g Applications

- ▶ ±100 g, Dynamic Range
- ▶ 50 mV/g, ±10% Sensitivity
- ▶ 1,0-10000 Hz (60-600,000 CPM)

AC118-1A 2 Pin Connector

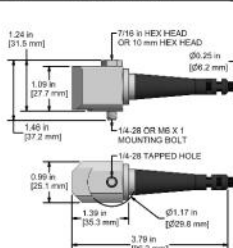
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC118-2C CB103 Integral Cable

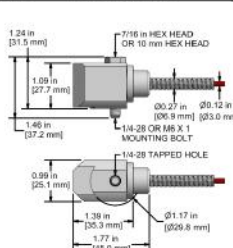
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC118-3C CB206 Armored Integral Cable

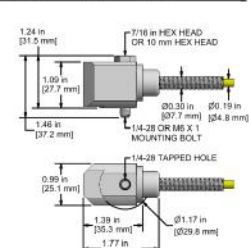
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC118-6C CB611 Heavy Duty Armored Integral Cable

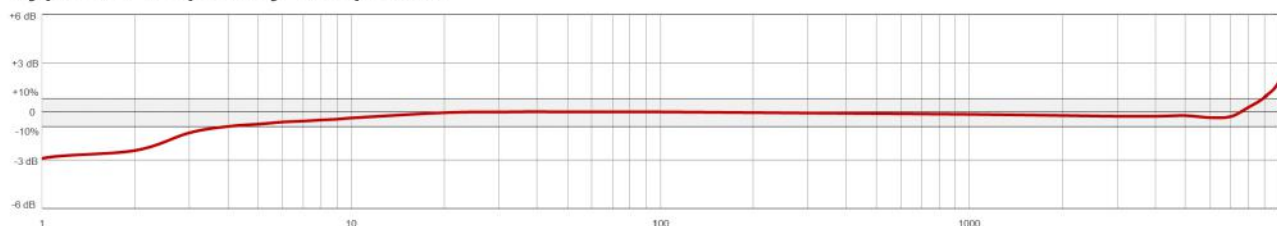
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC118	M/AC118	Environmental		
Sensitivity (±10%)	50 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121 °C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	240-360,000 CPM	4,0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 100 g, peak		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	8 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.5 µg/√Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 1000 Hz	1.7 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,260,000 CPM	21000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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