

# AC118 Series

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



VIBRATION ANALYSIS HARDWARE



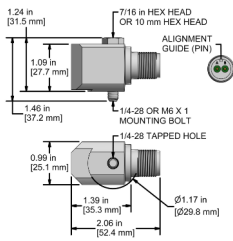
## Product Features

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       |

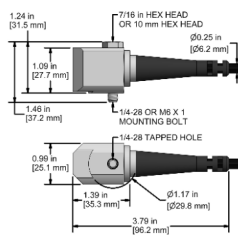


Stock Product

### AC118-2C

CB103 Integral Cable

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

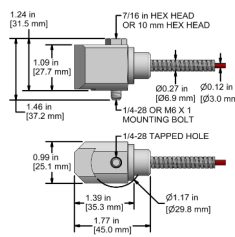


Built To Order

### AC118-3C

CB206 Armored Integral Cable

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

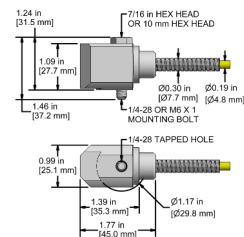


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### AC118-6C

CB611 Heavy Duty Armored Integral Cable

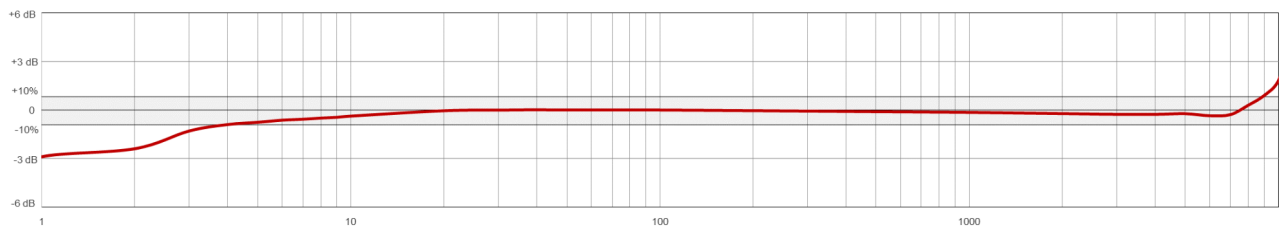
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

| Specifications              | Standard             | Metric       | Specifications              | Standard             | Metric            |
|-----------------------------|----------------------|--------------|-----------------------------|----------------------|-------------------|
| Part Number                 | AC118                | M/AC118      | <b>Environmental</b>        |                      |                   |
| Sensitivity (±10%)          | 50 mV/g              |              | 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     |                   |
| <b>Electrical</b>           |                      |              | Submersible Depth           | 200 ft.              | 60 m              |
| Settling Time               | <2 Seconds           |              | <b>Physical</b>             |                      |                   |
| Voltage Source (IEPE)       | 18-30 VDC            |              | Sensing Element             | PZT Ceramic          |                   |
| Constant Current Excitation | 2-10 mA              |              | Sensing Structure           | Shear Mode           |                   |
| Spectral Noise @ 10 Hz      | 8 µg/√Hz             |              | Weight                      | 5.1 oz               | 145 grams         |
| Spectral Noise @ 100 Hz     | 2.5 µg/√Hz           |              | Case Material               | 316L Stainless Steel |                   |
| Spectral Noise @ 1000 Hz    | 1.7 µg/√Hz           |              | Mounting                    | 1/4-28               |                   |
| 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 <sup>8</sup> ohm |              | 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                 |                   |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | sales@ctconline.com | 585-924-5900