

# High-frequency, integral cable accelerometers

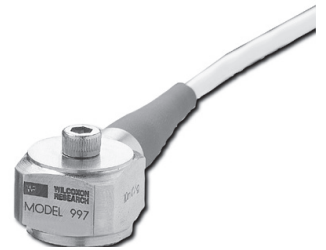
## 997 series

### SPECIFICATIONS

<b>Sensitivity, <math>\pm 10\%</math>, 25°C</b>		10 mV/g
<b>Acceleration range</b>		600 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	$\pm 5\%$	1.5 - 20,000 Hz
	$\pm 10\%$	1.0 - 25,000 Hz
	$\pm 3$ dB	0.5 - 29,000 Hz
<b>Resonance frequency, mounted</b>		>45 kHz
<b>Transverse sensitivity, max</b>		3% of axial
<b>Temperature response:</b>	-55°C	+1%
	-25°C	-1%
	+120°C	+8%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>		
Broadband	2.5 Hz to 25 kHz	1,000 $\mu$ g
	10 Hz	25 $\mu$ g/ $\sqrt{\text{Hz}}$
Spectral	100 Hz	9 $\mu$ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	7 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage, nominal</b>		12 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Turn-on time</b>		<1 sec
<b>Temperature range</b>		-50° to +120°C
<b>Vibration limit</b>		1,000 g
<b>Shock limit</b>		5,000 g peak
<b>Sealing</b>		hermetic
<b>Base strain sensitivity, max</b>		0.0005 g/ $\mu$ strain
<b>Weight</b>		35 grams
<b>Case material</b>		316L stainless steel
<b>Mounting:</b>	<b>997</b>	8-32 captive screw
	<b>997-M4</b>	M4 captive screw
<b>Integral cabling</b>		J10, 16 ft., Enviroprene, two-conductor shielded

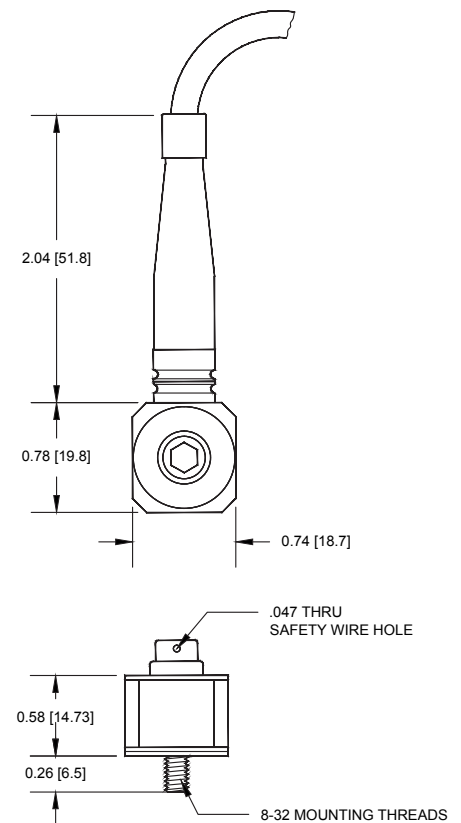
**Accessories supplied:** Captive screw (type depends on model); calibration data (level 2)

**Options:** Cable length



### Key features

- Available models: 997 (8-32 captive screw) and 997-M4 (M4 captive screw)
- High amplitude range
- Manufactured in ISO 9001 facility



Connections	
Function	Cable conductor color
power/signal	white
common	black
case	shield



Note: Due to continuous process improvement, specifications are subject to change without notice.  
This document is cleared for public release.