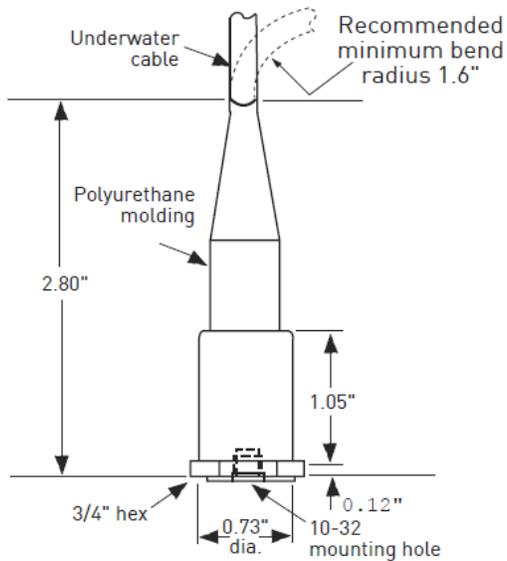


# Underwater accelerometer 746



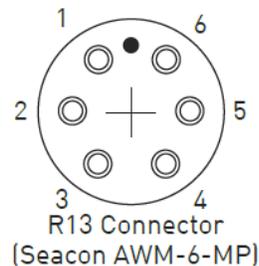
## Key features

- High sensitivity
- Wide frequency range
- High pressure rating
- Ground isolated - eliminates ground loops
- Reverse wiring protection



Pin assignments	
Pin #	Cable
1	NC
2	shield/common
3	NC
4	NC
5	B+/signal
6	NC

Face side



Connections	
Function	Connector
power/signal	center
common	shield

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

Wilcoxon Sensing Technologies  
20511 Seneca Meadows Parkway  
Germantown, MD 20876  
info@wilcoxon.com

Tel: (301) 330 8811  
Fax: (301) 330 8873  
www.wilcoxon.com

Wilcoxon Sensing Technologies  
An Amphenol Company

# Underwater accelerometer 746

## SPECIFICATIONS

<b>Sensitivity, ±5%, 25° C</b>	100 mV/g
<b>Acceleration range<sup>1</sup></b>	50 g peak
<b>Amplitude nonlinearity</b>	1%
<b>Frequency response:</b>	
± 1 dB	2 - 8,000 Hz
± 3 dB	1 - 15,000 Hz
<b>Resonance frequency, mounted, nominal</b>	30 kHz
<b>Transverse sensitivity, max</b>	5% of axial
<b>Temperature response:</b>	
-50° C	-10%
+80° C	+4%
<b>Power requirement:</b>	
Voltage source	18 - 30 VDC
Current regulating diode <sup>1</sup>	2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>	
Broadband	2.5 Hz to 25 kHz
Spectral	10 Hz
	100 Hz
	1,000 Hz
	50 µg
	10 µg/√Hz
	0.8 µg/√Hz
	0.2 µg/√Hz
<b>Output impedance, max</b>	100 Ω
<b>Bias output voltage</b>	10, ±2 VDC
<b>Grounding</b>	isolated
<b>Hydrostatic pressure</b>	650 psi
<b>Temperature range</b>	-50 to +80° C
<b>Vibration limit</b>	500 g peak
<b>Shock limit</b>	5,000 g peak
<b>Base strain sensitivity</b>	0.005 g/µstrain
<b>Dynamic weight</b>	45 grams
<b>Case material</b>	titanium
<b>Mounting</b>	10-32 tapped hole
<b>Integral cabling</b>	J6, 10 ft.

Note: <sup>1</sup> To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables (please consult Wilcoxon customer service).

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

## Contact

Wilcoxon Sensing  
Technologies

20511 Seneca Meadows Parkway  
Germantown MD 20876, USA

Tel: +1 301 330 8811  
Fax: +1 301 330 8873

info@wilcoxon.com

www.wilcoxon.com

## Accessories supplied:

- Calibration data
- SF1 mounting stud

## Options:

Customer-specified cable length, connectors, sensitivity, filtering.