

Injection molded integral cable accelerometer series

786F-IM

SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g	
Acceleration range	80 g peak	
Amplitude nonlinearity	1%	
Frequency response, nominal:	±10%	1 - 8,000 Hz
	±3 dB	0.5 - 13,000 Hz
Resonance frequency	30 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response:	-50°C	-5%
	+120°C	+5%
Power requirement:		
Voltage source	18 - 30 VDC	
Current regulating diode	2 - 10 mA	
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 µg
Spectral	10 Hz	10 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 Hz	5 µg/√Hz
Output impedance, max	100 Ω	
Bias output voltage	12 VDC	
Grounding	case isolated, internally shielded	
Temperature range	-50° to +120°C	
Vibration limit	500 g peak	
Shock limit, min	5,000 g peak	
Electromagnetic sensitivity, equiv. g, max	70 µg/gauss	
Sensor sealing	hermetic	
Integral cable sealing	IP67	
Base strain sensitivity, max	0.0002 g/µstrain	
Sensing element design	PZT ceramic / shear	
Weight	90 grams (excluding cable)	
Case material	316L stainless steel	
Mounting	1/4-28 UNF tapped hole	
Integral cabling	see Table 1	

Accessories supplied: SF6 mounting stud; calibration data (level 2)

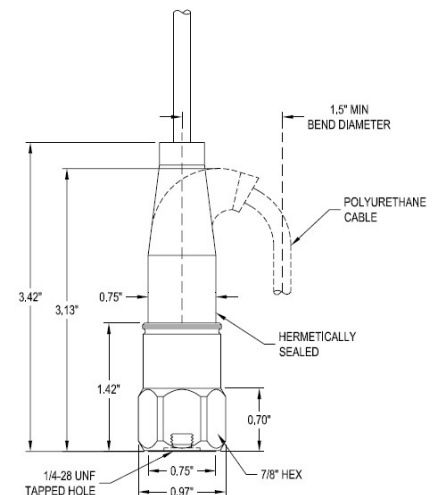
TABLE 1: 786F-IM-X CABLE SELECTION GUIDE

-X (cable option)
-J9T2A = twisted, shielded pair, Yellow Teflon jacket, 200°C, 16ft standard, blunt cut
-J10 = twisted, shielded pair, grey Enviroprene jacket, 125°C, 16ft standard, blunt cut



Key features

- Affordable injection molded integral cable
- Hermetically sealed sensor, IP67 molded cable
- Manufactured in ISO 9001 facility



Connections	
Function	Cable conductor
power/signal	red
common	black
N/C	shield

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

