NOTES: UNLESS OTHERWISE SPECIFIED

A4 WIRE CABLE

WIRE 36 AWG. 7/44 SILVER PLATED COPPER

WIRE INSULATION PFA. 008 NOMINAL WALL

SHIELD 44 AWG SILVER PLATED COPPER BRAID

JACKET PFA. WHITE. 006 INCH NOMINAL WALL

DIAMETER Ø.045 NOMINAL

TEMP -196°C TO +200°C

VOLTAGE 150 VOLTS AC

REFERENCES IN MASTERS DREW CODE OR XY AXIS

REV. ECN DESCRIPTION BY/DATE CHK APPR

H 12409 UPDATED VIEW OF CONNECTOR (KNURLING) JS 12/15/15 LA LN

J 12962 3133AS SENSITIVITY WAS: 0.25 JS 10/07/16 LA LN

K 13061 REVISED *DYTRAN* TO REFLECT MARKING, AS SHIPPED JS 10/07/16 RA LN

L 13832 SEE ECN RA 11/13/17

VARIATION CHART

MODEL SENSITIVITY LENGTH

3133A1 10 mV/g (±15%) 36 IN

3133A2 2 mV/g (±25%) 36 IN

3133A3 5 mV/g (±20%) 36 IN

3133A4 0.7 mV/g (±25%) 36 IN

3133A5 0.2 mV/g (±25%) 36 IN

3133A1-05 10 mV/g (±15%) 5 FT

3133A2-05 2 mV/g (±25%) 5 FT

3133A3-05 5 mV/g (±20%) 5 FT

3133A4-05 0.7 mV/g (±25%) 5 FT

3133A5-05 0.2 mV/g (±25%) 5 FT

DIAGNOSTIC CHART

MODEL SENSITIVITY LENGTH

3133A1 10 mV/g (±15%) 36 IN

3133A2 2 mV/g (±25%) 36 IN

3133A3 5 mV/g (±20%) 36 IN

3133A4 0.7 mV/g (±25%) 36 IN

3133A5 0.2 mV/g (±25%) 36 IN

3133A1-05 10 mV/g (±15%) 5 FT

3133A2-05 2 mV/g (±25%) 5 FT

3133A3-05 5 mV/g (±20%) 5 FT

3133A4-05 0.7 mV/g (±25%) 5 FT

3133A5-05 0.2 mV/g (±25%) 5 FT

CABLE TOLERANCES

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>METRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;1 FT</td>
<td>&gt;0.3 m</td>
</tr>
<tr>
<td>&gt;1 FT - 5 FT</td>
<td>&gt;0.3 m - 1.5 m</td>
</tr>
<tr>
<td>&gt;5 FT - 10 FT</td>
<td>&gt;1.5 m - 3 m</td>
</tr>
<tr>
<td>&gt;10 FT - 25 FT</td>
<td>&gt;3 m - 7.5 m</td>
</tr>
<tr>
<td>&gt;25 FT</td>
<td>&gt;7.5 m</td>
</tr>
</tbody>
</table>

ADDITIONAL INFORMATION

- MODEL 6986 PETRO MOUNTING WAX IS INCLUDED.
- WAITING CABLES ARE MODELS 6934XX (SANTOPRENE), OR 8811XX (TEFLON). 4-PIN CONNECTOR TO 3 BNCs. "XX" IS THE CABLE LENGTH IN FEET. EX. CABLE MOD. 6811AS (3 FT. NOM).
- HOUSING MATERIAL: TITANIUM.
- THE LETTERS "X", "Y", & "Z" INDICATE THE DIRECTION OF ACCELERATION OF EACH AXIS FOR POSITIVE GOING OUTPUT VOLTAGE AS THE MARKED SURFACE ACCELERATES TOWARD THE VIEWER. SEE DIRECTIONAL ARROWS ON FACE OF DRAWING.
- FOR BEST FREQUENCY RESPONSE, PREPARE FLAT MOUNTING SURFACE OF AT LEAST 20 DIAMETER FLAT TO .001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.
- WEIGHT, LESS CABLE: 0.8 GRAMS.

NOTES: UNLESS OTHERWISE SPECIFIED

REVISION HISTORY

- ISSUE 03 12/08
- ISSUE 04 08/25
- ISSUE 05 02/12
- ISSUE 06 12/12
- ISSUE 07 01/13
- ISSUE 08 04/14
- ISSUE 09 11/15
- ISSUE 10 07/16
- ISSUE 11 11/17

DRAWN

N.C. 11-10-08

DESIGN

N.C. 11-10-08

CHK D.V. 05-18-09

APP ANS 05-20-09

DO NOT SCALE DRAWING

SCALE: NONE ASHLAR GRAPHITE SHEET 1 OF 1
### 3133A5

**Accelerometer, Triaxial, IEPE**

**Performance Specification**

**Ultra miniature size**

**Ideal low frequency response**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model</th>
<th>Sensitivity (mV/g)</th>
<th>Range (Gpeak)</th>
<th>Resolution (Grms)</th>
<th>Oper. Temp(°F)</th>
<th>TC</th>
</tr>
</thead>
<tbody>
<tr>
<td>3133A1</td>
<td>10</td>
<td>500</td>
<td>0.02</td>
<td>-67 to 320</td>
<td>1.0 to 2.5</td>
<td></td>
</tr>
<tr>
<td>3133A2</td>
<td>2</td>
<td>2500</td>
<td>0.15</td>
<td>-67 to 320</td>
<td>0.3 to 2.5</td>
<td></td>
</tr>
<tr>
<td>3133A3</td>
<td>5</td>
<td>1000</td>
<td>0.06</td>
<td>-67 to 320</td>
<td>1.0 to 2.5</td>
<td></td>
</tr>
<tr>
<td>3133A4</td>
<td>0.7</td>
<td>5000</td>
<td>0.15</td>
<td>-67 to 320</td>
<td>0.5 to 2.5</td>
<td></td>
</tr>
</tbody>
</table>

**Physical**

- **Weight**: 0.03 oz (0.8 grams)
- **Size**: Width 0.24 inch (6.1 mm), Height 0.24 inch (6.1 mm)
- **Mounting**: Adhesive
- **Integral Cable**: Length 3 ft (914 mm)
- **Type**: TFE
- **Connector**: Type 4-pin
- **Housing Material**: Titanium
- **Sensing Element Material**: Quartz

**Perfomance**

- **Sensitivity (1 Hz) ± 25%**: 0.2 mV/g
- **Acceleration Range**: 20,000 Gpeak
- **Frequency Range, ±5%**: 0.7 to 6000 Hz
- **Frequency Range, ±10%**: 0.7 to 10,000 Hz
- **Linearity (4)**: ±1 % F.S.
- **Resonance Frequency**: >35 kHz
- **Transverse Sensitivity**: 6 %
- **Bias Voltage**: +7 to +9 VDC
- **Output Impedance**: 100 Ω
- **Discharge Time Constant**: 5 to 4 seconds
- **Spectral Noise**: 160,000 μGms/sq(Hz)
- **ENVIRONMENTAL**
  - **Maximum Shock**: 25,000 Gpeak
  - **Maximum Vibration**: 22,000 Gpeak
  - **Operating Temperature**: -67 to +320 °F
  - **Seal**: Epoxy
  - **Magnetic Sensitivity at 100 Gauss**: 0.0004 g/Gauss
  - **Base Strain Sensitivity**: 0.15 g/με

**Power**

- **Compliance Voltage**: +18 to +30 VDC
- **Current Range**: 2 to 20 mA

**Supplied Accessories**

1. Model 6298 small petro wax
2. Model 6741 removal tool
3. Accredited calibration certificate (ISO 17025)

**Notes**

1. Measured at 100 Hz, 10 Grms
2. Actual sensitivity is given on a calibration certificate
3. Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
4. Measured using zero-based straight line method, % of F.S. or any lesser range.

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**Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133A for more information.**

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