CABLE, 4-CONDUCTOR, SHIELDED. SEE TABLE FOR SPECIFICATIONS.

7. WEIGHT: LESS CABLE: 0.9 GRAMS

6. MODEL 6298 PETRO MOUNTING WAX, SUPPLIED

5. MATING CABLES ARE MODELS 6824AXX (SANTOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC's "XX" IS THE CABLE LENGTH IN FEET.

4. HOUSING MATERIAL: TITANIUM. GND. ISO BASE: ANODIZED ALUMINUM.

3. LETTERS "X": Y": Z" INDICATE DIRECTION OF ACCELERATION OF EACH AXIS FOR POSITIVE GOING OUTPUT VOLTAGE (AS MARKED SURFACE ACCELERATES TOWARD VIEWER.) SEE DIRECTIONAL ARROWS ON DRAWING FACE.

2. FOR BEST FREQUENCY RESPONSE, PREPARE FLAT MOUNTING SURFACE OF AT LEAST Ø.45, FLAT TO .001 TIR. APPLY ONE OR TWO DROPS OF CYANACRYLATE ADHESIVE TO MOUNT ACCELEROMETER.

1. LENGTH OF CABLE ASSEMBLY IS DESIGNATED BY DIM 'A' (SEE VARIATION CHART)

NOTES: UNLESS OTHERWISE SPECIFIED
### PERFORMANCE SPECIFICATION

**Model Number**: 3133B1

**Accelerometer, Triaxial, IEPE**

- **ULTRA MINIATURE SIZE**
- **HIGH SENSITIVITY**
- **IDEAL LOW FREQUENCY RESPONSE**
- **GROUND ISOLATED**

<table>
<thead>
<tr>
<th>PHYSICAL</th>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.03 oz</td>
<td>0.8 grams</td>
</tr>
<tr>
<td>Mounting</td>
<td>Adhesive</td>
<td>Adhesive</td>
</tr>
<tr>
<td>Integral Cable Length</td>
<td>3 ft</td>
<td>914 mm</td>
</tr>
<tr>
<td>Connector Type</td>
<td>TFE</td>
<td>TFE</td>
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<tr>
<td>Housing Material</td>
<td>Titanium</td>
<td>Titanium</td>
</tr>
<tr>
<td>Isolation Cup Material</td>
<td>Anodized Al</td>
<td>Anodized Al</td>
</tr>
<tr>
<td>Sensing Element Material</td>
<td>Ceramic</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Mode</td>
<td>Shear</td>
<td>Shear</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

- Sensitivity (mV/g), ±15%: 10 mVg, 1.02 mV/m/s²
- Acceleration Range: 500 Gpeak, 4905 m/s² peak
- Frequency Range, ±5%: 0.3 to 6000 Hz, 0.3 to 6000 Hz
- Frequency Range, ±10%: 0.25 to 10000 Hz, 0.25 to 10000 Hz
- Transverse Sensitivity: 6 %, 6 %
- Noise floor: 0.02 µGms/sqr(Hz), 0.20 m/s² rms
- Spectral Noise: 1Hz, 4000 µGms/sqr(Hz), 39240 µm/s² rms/sqr(Hz)
- ENVIRONMENTAL:
  - Shock: 5000 Gpeak, 49050 m/s²
  - Vibration: 900 Gpeak, 8229 m/s²
  - Operating Temperature: -60 to +250 °F, -51 to 121 °C
  - Seal: Epoxy
  - Magnetic Sensitivity at 100 Gauss: 0.00004 g/Gauss, 0.00039 m/s²/Gauss
  - Base Strain Sensitivity: 0.15 g/µε, 1.47 m/s²/µε

**ELECTRICAL**

- Compliance Voltage: +18 to +30 VDC, +18 to +30 VDC
- Current Range: 2 to 20 mA, 2 to 20 mA
- Discharge Time Constant: 1.0 to 2.5 seconds, 1.0 to 2.5 seconds
- Case Isolation, Min: 10 GΩ, 10 GΩ
- Bias Voltage: +8 to +10 VDC, +8 to +10 VDC
- Output Impedance: 100 Ω, 100 Ω

**This family also includes:**

<table>
<thead>
<tr>
<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>3133B2</td>
<td>2</td>
<td>2500</td>
<td>0.15</td>
<td>-60 to 300</td>
<td>0.3 to 2.5</td>
</tr>
<tr>
<td>3133B3</td>
<td>5</td>
<td>1000</td>
<td>0.06</td>
<td>-60 to 250</td>
<td>1.0 to 2.5</td>
</tr>
</tbody>
</table>

Please, refer to the performance specifications of the products in this family for detailed description.

**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

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