

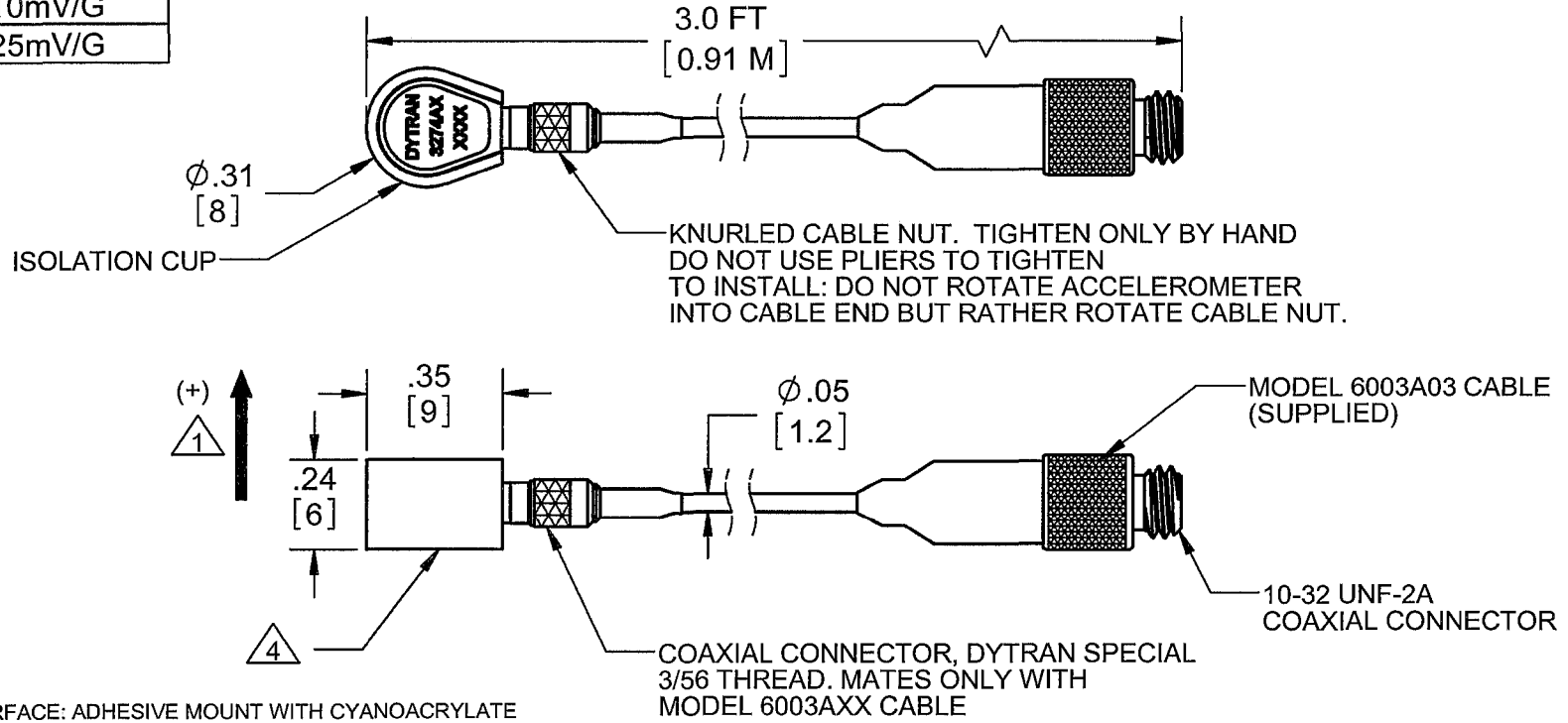
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REVISIONS

| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|-----|------|---------------------------|--------------|-----------|-----------|
| A | 7482 | INITIAL RELEASE | RA, 05/19/11 | DV | ANS |
| B | 9494 | UPDATED VIEW OF CONNECTOR | AB 05/03/13 | <i>mu</i> | <i>AS</i> |

| MODEL | SENSITIVITY |
|--------|-------------|
| 3274A1 | 5mV/G |
| 3274A2 | 10mV/G |
| 3274A3 | 25mV/G |



- 4 MOUNTING SURFACE: ADHESIVE MOUNT WITH CYANOACRYLATE OR DYTRAN MOUNTING WAX MODEL 6298
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM
- 2. WEIGHT LESS CABLE: 2 GRAMS MAX
- 1 ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

NOTES: UNLESS OTHERWISE SPECIFIED

| | |
|----------------------------|-----------|
| USED ON | NEXT ASSY |
| APPLICATION | |
| THIRD ANGLE PROJECTION USA | |

UNLESS OTHERWISE SPECIFIED:
 INTERPRET DIM & TOL PER ASME Y14.5M - 1994.
 REMOVE BURRS.
 COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
 CHAM EXT THDS 45° TO MINOR DIA.
 THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
 THDS PER MIL-S-7742.
 DIMENSIONS APPLY AFTER FINISHING.

63
 ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005.
 BREAK SHARP EDGES .005 TO .010.
 MACHINED FILLET RADII .005 TO .015.
 WELDING SYMBOLS PER AWS A2.4.
 ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS
 TOLERANCES ARE:
 INCHES METRIC ANGLES
 .XX ± .03 .X ± 0.8 ± 1°
 .XXX ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

| | | |
|--------------|-----|----------|
| CONTRACT NO. | | |
| APPROVALS | | DATE |
| ORIG | RA | 05/19/11 |
| CHK | DV | 05/27/11 |
| APP | ANS | 05/27/11 |
| APP | | |

DYTRAN MASTER INSTRUMENTS, INC.
Chatsworth, CA

TITLE: **OUTLINE INSTALLATION DRAWING 3274A SERIES**

| | | | |
|---------------|------------------------|---------------------------|--------------|
| SIZE A | CAGE CODE 2W033 | DWG. NO. 127-3274A | REV B |
| SCALE: NONE | SOLIDWORKS | SHEET 1 OF 1 | |

| | | |
|--------------------------------------|----------------------------------|-----------------------------------|
| MODEL NUMBER 3274A1 | PERFORMANCE SPECIFICATION | DOC NO. PS3274A1 |
| | ACCELEROMETER, IEPE | REV E, ECN 13540, 07/05/17 |



- **MINIATURE SIZE**
- **REMOVABLE CABLE WITH 10-32 CONNECTOR**
- **HERMETICALLY SEALED**
- **TEDS FEATURE**

PHYSICAL

| | ENGLISH | | SI | |
|--------------------------|-------------------|--------|-------------------|-------|
| Weight, Max (Less Cable) | 0.07 | oz | 2 | grams |
| Mounting Provision | [1] | | [1] | |
| Connector | 3-56 | | 3-56 | |
| Cable Length | 36 | Inches | 914 | mm |
| Case Material | Titanium | | Titanium | |
| Isolation Cup Material | Anodized Aluminum | | Anodized Aluminum | |
| Sensing Element | Quartz | | Quartz | |
| Mode | Shear | | Shear | |

PERFORMANCE

| | | | | |
|-----------------------------|--------------|------|--------------|----------------------|
| Sensitivity, ± 10% [3] | 5 | mV/g | 0.51 | mV/m/s ² |
| Range F.S For ± 5 Volts Out | ± 1000 | g's | ± 9810 | m/s ² |
| Frequency Response, +/- 10% | 1.1 to 10000 | Hz | 1.1 to 10000 | Hz |
| Mounted Resonant Frequency | > 40 | kHz | > 40 | kHz |
| Amplitude Non-Linearity [4] | 2 | %F.S | 2 | %F.S |
| Transverse Sensitivity, Max | 5 | % | 5 | % |
| Noise Resolution | 0.014 | grms | 0.14 | m/s ² rms |
| Strain Sensitivity @250/με | 0.04 | g/με | 0.39 | m/s ² /με |

ENVIRONMENTAL

| | | | | |
|----------------------------|-------------|-------|-------------|-----------------------|
| Maximum Vibration | 2000 | Grms | 19600 | m/s ² rms |
| Maximum Shock | 5000 | Gpeak | 49000 | m/s ² peak |
| Temperature Range | -60 to +250 | °F | -51 to +121 | °C |
| TEDS Operating Temperature | -40 to +185 | °F | -40 to +85 | °C |
| Environmental Seal | Hermetic | | Hermetic | |

ELECTRICAL

| | | | | |
|---|--------------------|----------|--------------------|----------|
| Supply Current/Compliance Voltage Range [5] | 2 to 20/+18 to +30 | mA/Volts | 2 to 20/+18 to +30 | mA/Volts |
| Output Impedance, TYP | 100 | Ω | 100 | Ω |
| Bias Voltage | +7 to +9 | VDC | +7 to +9 | VDC |
| Discharge Time Constant | 0.3 to 0.8 | Sec | 0.3 to 0.8 | Sec |
| TEDS Feature | IEEE 1451.4 | | IEEE 1451.4 | |
| Case Isolation | 10 | GΩ | 10 | GΩ |

This family also includes:

| Model | Sensitivity (mV/g) | Range (g's) | Resolution (Grms) | Oper. Temp(°F) | TC |
|--------|--------------------|-------------|-------------------|----------------|------------|
| 3274A2 | 10 | 500 | 0.007 | -60 to +250 | 0.3 to 0.8 |
| 3274A3 | 25 | 200 | 0.0009 | -60 to +225 | 0.3 to 0.8 |

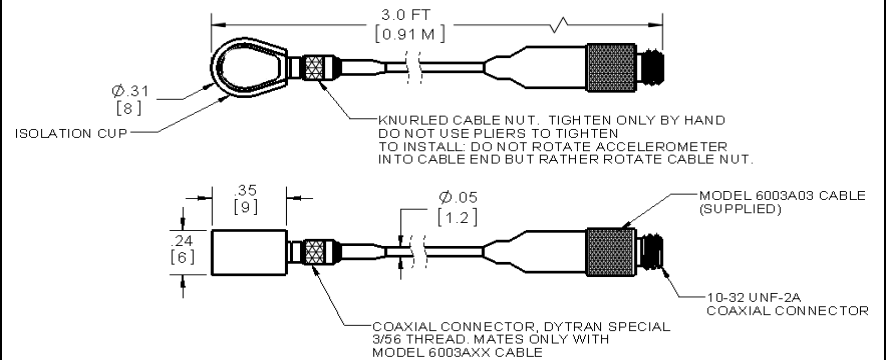
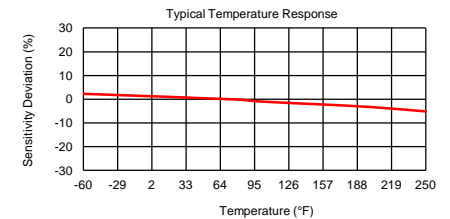
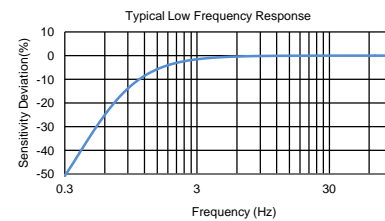
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories

- 1) Model 6591A installation wrench
- 2) Model 6298 small petro mounting wax
- 3) Accredited calibration certificate (ISO 17025)
- 4) Model 6003A03 cable assembly

Notes:

- [1] Flat mounting surface for adhesive mount.
- [2] Mates with Dytran cable 6003AXX (XX is cable length in feet)
- [3] Measured at 100 Hz, 1 grms per ISA RP37.2.
- [4] Percent of full scale or any lesser range, zero based best-fit straight line method.
- [5] 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 127-3274A for more information.



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