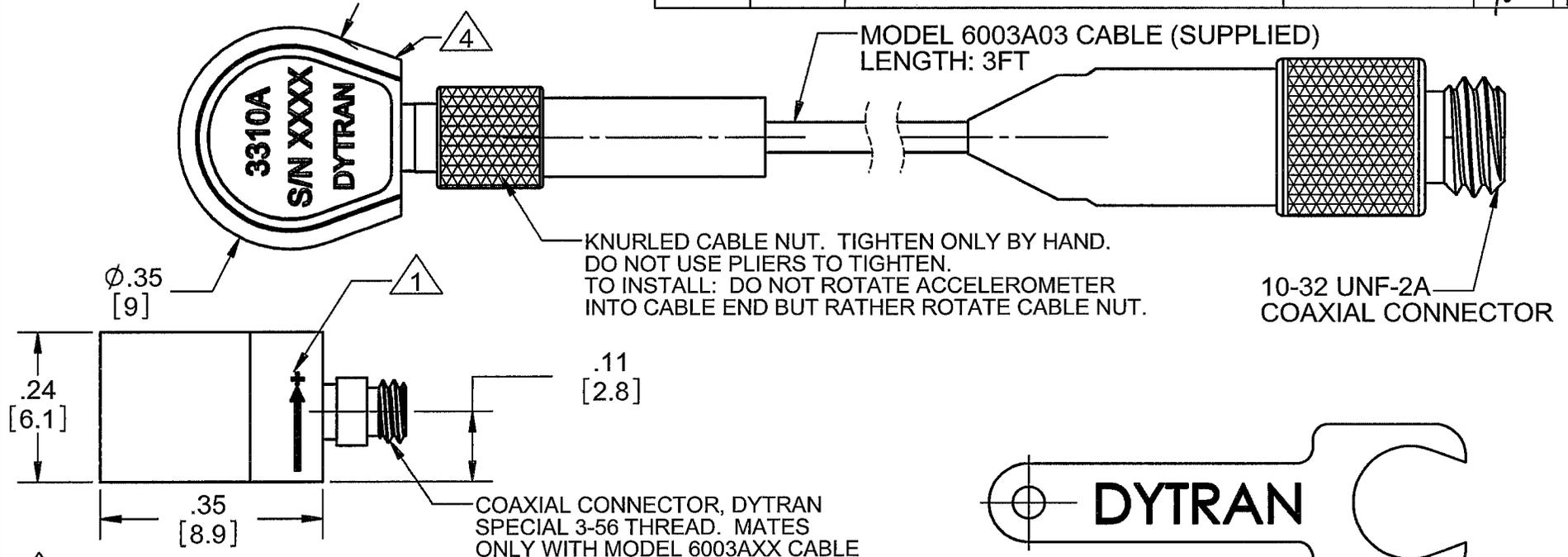


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|-----|------|---------------------------|-------------|-----|------|
| A | 6785 | INITIAL RELEASE | RA 05/22/10 | JS | DV |
| B | 9494 | UPDATED VIEW OF CONNECTOR | AB 05/03/13 | JS | AS |



- 4 ISOLATOR CUP: ANODIZED ALUMINUM. DIELECTRIC WITHSTANDING: <1mA AT 1000VDC FOR 60 SECONDS DWELL WITH 20 SECONDS RAMP RATE
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM
- 2. WEIGHT LESS CABLE: 1.8 GRAMS APPROXIMATELY
- 1 ARROW INDICATES DIRECTION OF POSITIVE OUTPUT SIGNAL

REMOVAL TOOL. MODEL 6927
SCALE 2:1

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.

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 | 05/22/10 |
| CHK | JS | 05/24/10 |
| APP | DV | 06/08/10 |
| APP | | |

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE DRAWING, 3310A**

| | | | |
|---------------|------------------------|---------------------------|--------------|
| SIZE A | CAGE CODE 2W033 | DWG. NO. 127-3310A | REV B |
| SCALE: 4:1 | SOLIDWORKS | SHEET 1 OF 1 | |

| | | |
|-------------------------------------|----------------------------------|----------------------------------|
| MODEL NUMBER 3310A | PERFORMANCE SPECIFICATION | DOC NO. PS3310A |
| | CHARGE MODE ACCELEROMETER | REV C, ECN 9494, 05/06/13 |



- MINIATURE SIZE
- REMOVABLE CABLE
- HERMETICALLY SEALED

PHYSICAL

| | ENGLISH | | SI | |
|----------------------|--------------------|----|--------------------|-------|
| Weight | 0.063 | oz | 1.8 | grams |
| Mounting Provision | [1] | | [1] | |
| Connector [2] | 3-56 UNF-2A | | 3-56 UNF-2A | |
| Case Material | Titanium | | Titanium | |
| Sensing Element Type | LiNbO ₃ | | LiNbO ₃ | |

PERFORMANCE

| | ENGLISH | | SI | |
|-----------------------------|---------------|----------|---------------|-----------------------|
| Sensitivity [3] [4] | 1.0 - 1.3 | pC/g | 0.10 - 0.13 | pC / m/s ² |
| Range F.S | +/-3000 | g/με | +/-29,430 | m/s ² |
| Frequency Response, +/- 3dB | [5] to 20,000 | Hz | [5] to 15,000 | Hz |
| Frequency Response, +/- 10% | [5] to 10,000 | Hz | [5] to 10,000 | Hz |
| Frequency Response, +/- 5% | [5] to 7,000 | Hz | [5] to 5,000 | Hz |
| Mounted Resonant Frequency | >45 | kHz | >45 | kHz |
| Amplitude Non-Linearity | 1 | %F.S MAX | 1 | %F.S MAX |
| Transverse Sensitivity, Max | 5 | % | 5 | % |
| Strain Sensitivity @250/μσ | 0.00012 | g/με | 0.0012 | m/s ² /με |

ENVIRONMENTAL

| | ENGLISH | | SI | |
|--------------------|-------------|-------|-------------|----------------------|
| Maximum Vibration | 4000 | g rms | 39200 | m/s ² rms |
| Maximum Shock | 5000 | g | 49000 | m/s ² |
| Temperature Range | -60 to +500 | °F | -51 to +260 | °C |
| Environmental Seal | Hermetic | | Hermetic | |

ELECTRICAL

| | ENGLISH | SI |
|------------------------|----------|----------|
| Output Signal Polarity | Positive | Positive |
| Isolation | [6] | [6] |

This family also includes:

| Model | Sensitivity (pC/psi) | Range (pC) | Resolution (Grms) | Oper. Temp(°F) |
|-------|----------------------|------------|-------------------|----------------|
| | | | | |
| | | | | |
| | | | | |

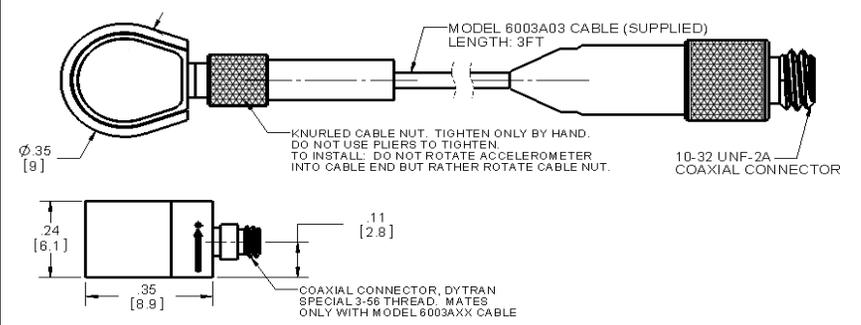
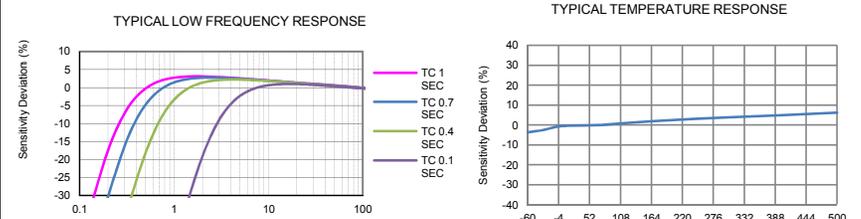
Please, refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories

- 1) Model 6927 installation wrench.
- 2) Accredited calibration certificate (ISO 17025)
- 3) Model 6003A03 removable cable.

Notes:

- [1] Flat mounting surface for adhesive mount.
- [2] Connector radially mounted. Connector mates only with Dytran cable model 6003XX.
- (XX is length in feet)
- [3] Measured at 100 Hz, 1 G RMS per ISA RP37.2.
- [4] Actual sensitivity is given on a calibration certificate traceable to NIST, supplied with each instrument.
- [5] Low frequency response is depended upon the discharge time constant of the charge amplifier.
- [6] Case grounded unit epoxied into anodized aluminum cup. Dielectric withstanding of <1mA at 1000VDC
- [7] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3310A for more information.



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