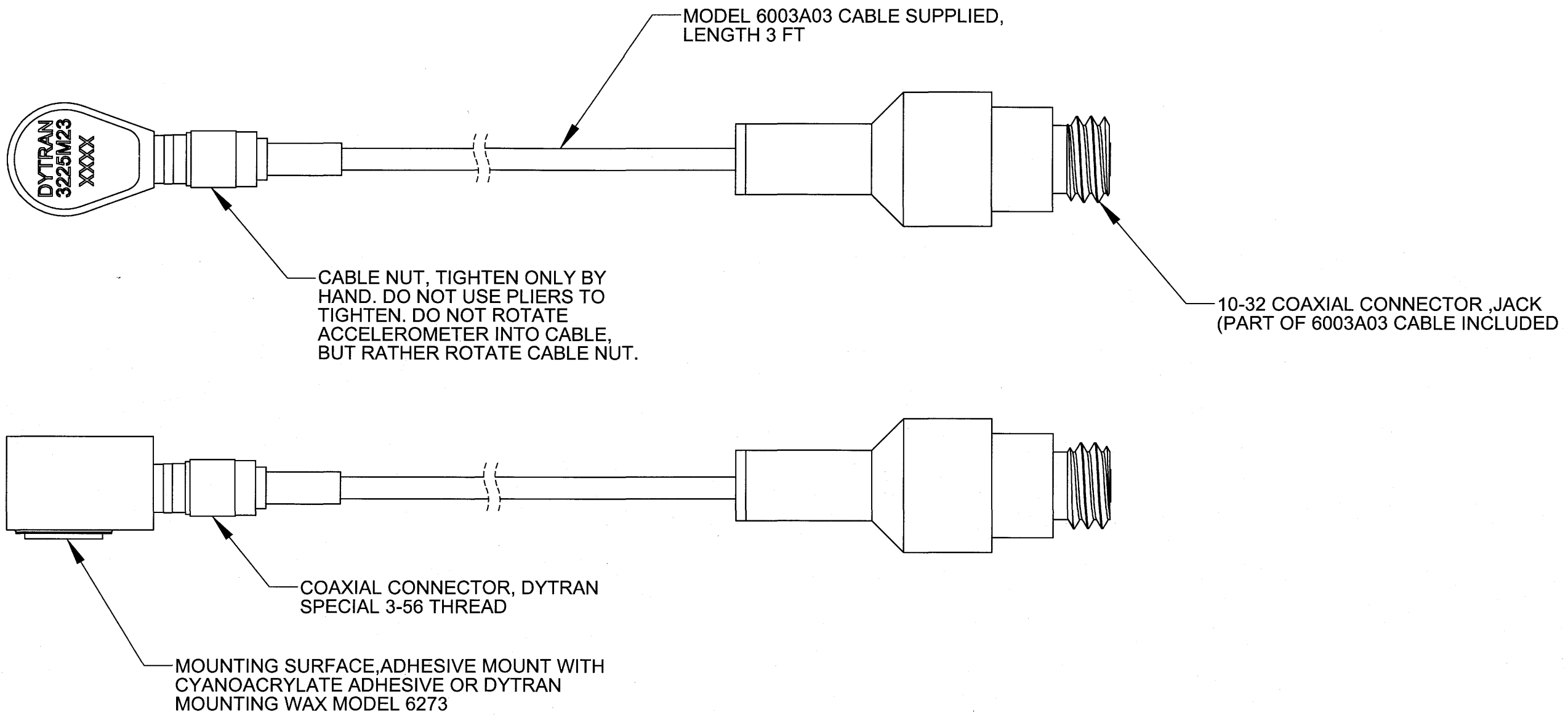


REVISIONS				
REV.	ECN	DESCRIPTION	BY/DATE	CHK APPR
B	5081	MARKING WAS ON SIDES	JS 03/02/08	PML PML



- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 0.85 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

NOTES: UNLESS OTHERWISE SPECIFIED

DRILL HOLE SIZE	TOLERANCE
.0135 THRU .125	+0.004 / -.001
.1260 THRU .250	+0.005 / -.001
.2510 THRU .500	+0.006 / -.001
.5010 THRU .750	+0.008 / -.001
.7510 THRU 1.000	+0.010 / -.001
1.001 THRU 2.000	+0.012 / -.001

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.

THIRD ANGLE PROJECTION USA

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. TOLERANCES ARE: DECIMALS .XX ± .010 .XXX ± .005 ANGLES ± 1°	CONTRACT NO.	
	APPROVALS	DATE
MATERIAL:	ORIG	JS 02/01/08
	CHK	CES 2/13/08
FINISH:	APP	DV 2/14/08
	APP	
DO NOT SCALE DRAWING		

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

**MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION DRAWING M3225M23**

SIZE <b>B</b>	CAGE CODE <b>2W033</b>	DWG NO <b>127-3225M23</b>	REV <b>B</b>
SCALE: NONE	SOLIDWORKS	SHEET 1 of 1	



**SPECIFICATIONS**  
**MODEL 3225M23 MINIATURE IEPE ACCELEROMETER**

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	1	gram
SIZE (DIA x LENGTH HEX x HEIGHT)	0.25 x 0.43 x .215	inch
MOUNTING PROVISION	Flat mounting surface for adhesive mount	
CONNECTOR, RADIALLY MOUNTED [1]	3-56	
CASE MATERIAL	Titanium	
SENSING ELEMENT TYPE	Piezoceramics, planar shear	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 10\%$ [2] [3]	50	mV/g
RANGE F.S. FOR $\pm 5$ VOLTS OUT	$\pm 100$	g
FREQUENCY RESPONSE, $\pm 10\%$ [3]	2 to 10,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	40	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.0002	grms
AMPLITUDE NON-LINEARITY, (ZERO BASED BEST-FIT ST.LINE METHOD)	2	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY @ 250 $\mu\epsilon$	.05	g/ $\mu\epsilon$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	400	grms
MAXIMUM SHOCK	5000	gpk
TEMPERATURE RANGE	-60 TO +220	°F
THERMAL COEFFICIENT OF SENSITIVITY	.15	%/°F
ENVIRONMENTAL SEAL	Hermetic, TIG welded & glass-to-metal seal connector	
<b>ELECTRICAL</b>		
SUPPLY CURRENT [4]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+18 to +30	Volts
OUTPUT IMPEDANCE, TYP.	70	$\Omega$
BIAS VOLTAGE	+11 to +13	Vdc
DISCHARGE TIME CONSTANT, NOM.	0.4	sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	Positive	

**SUPPLIED ACCESSORIES:**

- (1) MODEL 6591A INSTALLATION REMOVAL WRENCH
- (2) 6298 SMALL PETRO WAX

**NOTES:**

- [1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX (XX IS LENGTH IN FEET)
- [2] MEASURED AT 100 Hz, 1 grms PER ISA RP37.2.
- [3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO NIST, SUPPLIED WITH EACH INSTRUMENT.
- [4] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER.