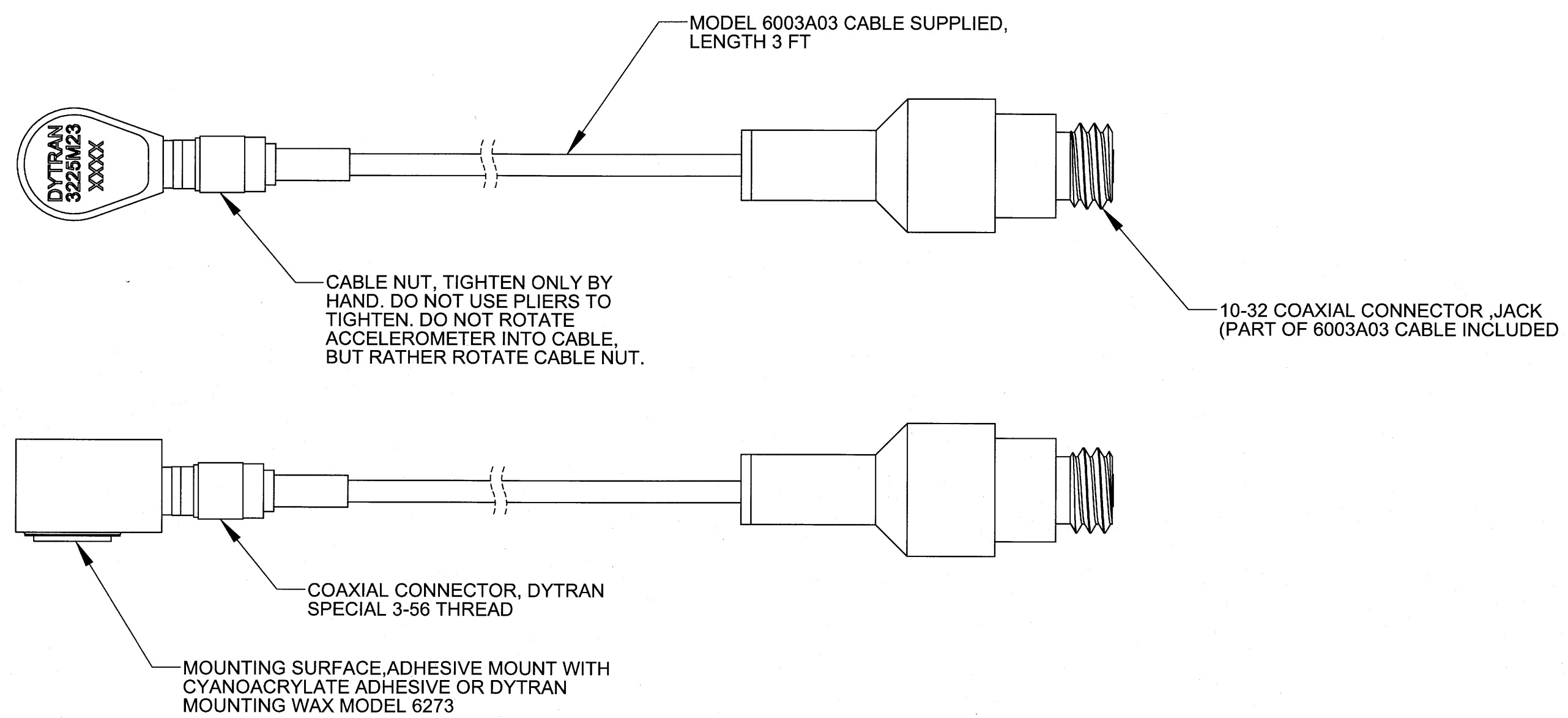


REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5081	MARKING WAS ON SIDES	JS 03/02/08	MYL	SMI



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	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.
.0135 THRU .125	+.004 / -.001	ALL MACHINED SURFACES. $\sqrt{63}$ TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .010. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.
.1260 THRU .250	+.005 / -.001	
.2510 THRU .500	+.006 / -.001	
.5010 THRU .750	+.008 / -.001	
.7510 THRU 1.000	+.010 / -.001	
1.001 THRU 2.000	+.012 / -.001	
THIRD ANGLE PROJECTION USA		

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS
.XX ± .010
.XXX ± .005

ANGLES
± 1°

CONTRACT NO.

APPROVALS

DATE

ORIG

JS

02/01/08

CHK

CES

2/13/08

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

CAGE CODE
2W033

DWG NO
127-3225M23

REV
B

SCALE: NONE

SOLIDWORKS

SHEET 1 of 1



SPECIFICATIONS

MODEL 3225M23 MINIATURE IEPE ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
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	
PERFORMANCE		
SENSITIVITY, $\pm 10\%$ [2] [3]	50	mV/g
RANGE F.S. FOR ± 5 VOLTS OUT	± 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/ $\mu\epsilon$
ENVIRONMENTAL		
MAXIMUM VIBRATION	400	grms
MAXIMUM SHOCK	5000	gpk
TEMPERATURE RANGE	-60 TO +220	$^{\circ}\text{F}$
THERMAL COEFFICIENT OF SENSITIVITY	.15	%/ $^{\circ}\text{F}$
ENVIRONMENTAL SEAL	Hermetic, TIG welded & glass-to-metal seal connector	
ELECTRICAL		
SUPPLY CURRENT [4]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+18 to +30	Volts
OUTPUT IMPEDANCE, TYP.	70	Ω
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.