NOTES CONTINUED: (5) SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL

NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: DXXXXXXX-VY, S/N 001. VIBRATORY TOOL MAY BE USED.

6. APPROXIMATE WEIGHT = X.XXX LB. 7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364

8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

 ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4 NOTES 13 and 14 DO NOT APPLY TO THIS PART

#4-40 HELICOIL

#1185-04EN336

x2 LOCATIONS

#1-72 x 0.45"

FILLISTER HEAD

STAINLESS STEEL

SECTION A-A SECTION B-B

MACHINE SCREW

x4 LOCATIONS

10. ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS, USE NITRONIC 60 THREADED INSERTS.

11. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

12. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM

SCRATCHES OR GOUGES. 13. PART WILL BE PORCELAIN COATED PER LIGO SPECIFICATION E1000083

AFTER FABRICATION. THE INDICATED HOLES WILL BE MASKED PRIOR TO PORCELAIN COATING TO APPROXIMATELY 2.5-3X HOLE DIAMETER

CENTERED ON BOTH SIDES OF THE HOLE. 14. DIMENSIONS APPLY BEFORE PORCELAIN COATING UNLESS SPECIFIED.

15. BEND RADIUS: UNLESS OTHERWISE NOTED, THE BEND RADIUS SHOULD BE THE MINIMUM REQUIRED TO FORM WITHOUT CRACKING OR REQUIRING ADDITIONAL WORK WHEN FORMING. IN PARTICULAR IF SHEET METAL IS TO BE PORCELAIN COATED, THE BEND RADIUS SHALL BE A MINIMUM OF .12" OUTSIDE RADIUS OF BEND UNLESS

CONNECTOR

V25AB-36 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25HD M/S1-36-MM7PINHD F/X FROM

FROM										
CONNECTOR J1 - 25 PIN SUBMINI_D CONNECTOR (GOLD METALIZED PEEK)										
PIN	WIRE NAME	LENGTH *	TWISTED PAIR							
1,	(SHIELD) NOT CONNECTED									
13	WIRE 13	36"	TP-1							
25	WIRE 25	36"	IF-I							
12	WIRE 12	36"	TP-2							
24	WIRE 24	36"	IF-Z							
11	WIRE 11	36"	TP-3							
23	WIRF 23	36"	11-3							

PIN 2,14,3,15,4,16,5,17,6,18,7,19,8,20,9,21,10,22 AND SHIELD N/C (NOT CONNECTED)

CONNECTOR **MASTER KEYWAY** 0.930in 23.62mm **OUTER RING** \emptyset 0.565in [14.35mm] **TURNS** PIN 2 /PIN 1

DATE

DCN#

7 PIN MIGHTY MOUSE **SOCKET CONNECTOR** GLENAIR # 803-001-06M6-7SN-598A (MATES WITH GLENAIR # 803-003-07M6-7PN-598A)

BACK

TEST LIST

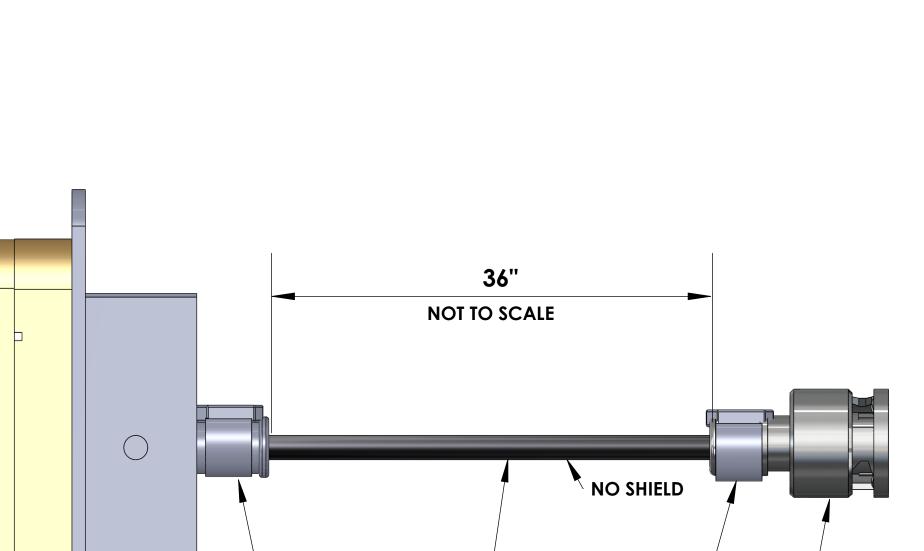
J2 - SHELL NOT CONNECTED

FROM

J1 - SHELL

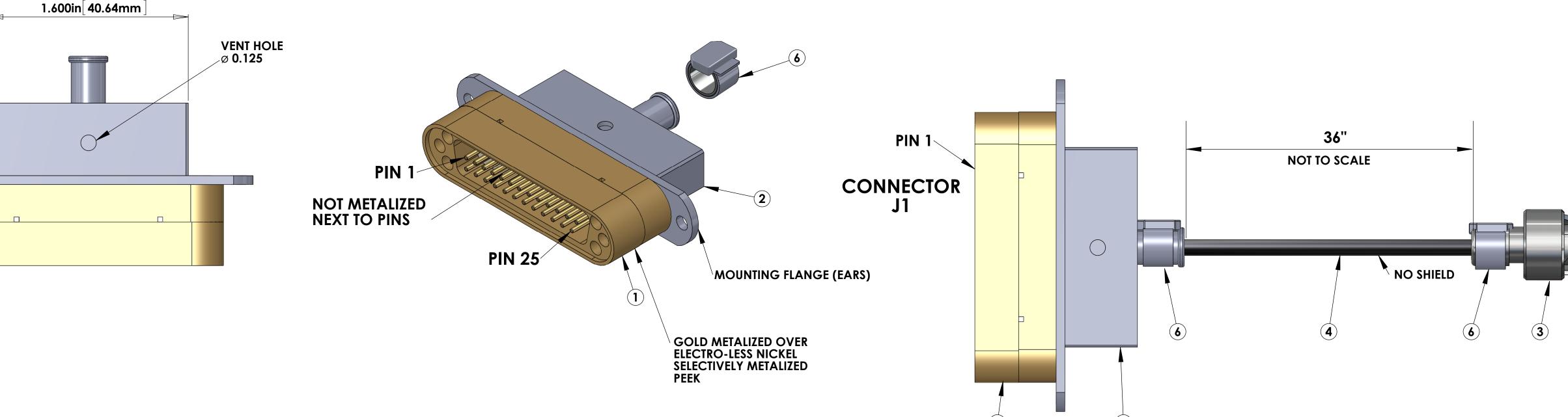
NOT CONNECTED

DRAWING TREE #

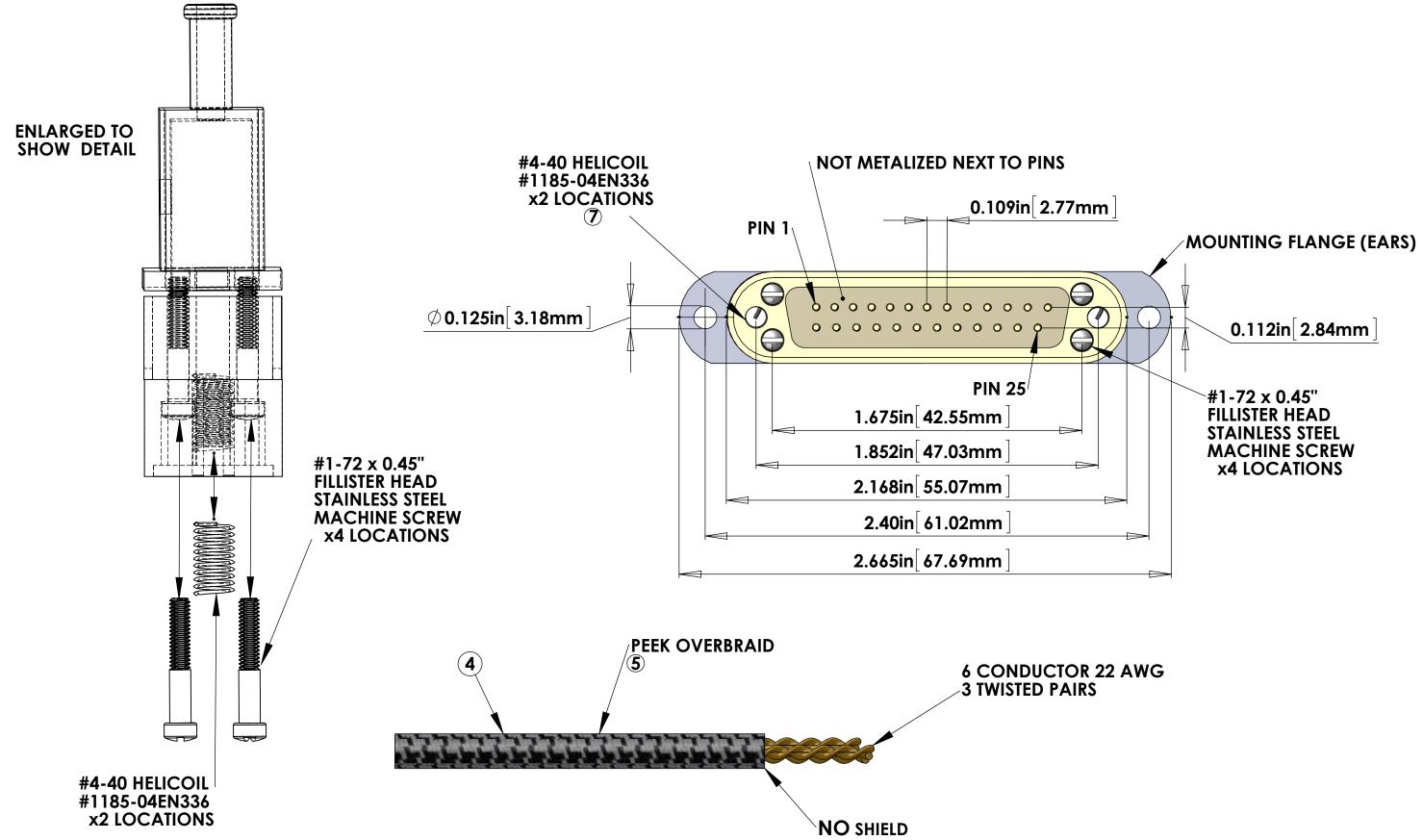


#4-40 HELICOIL #1185-04EN336 x2 LOCATIONS

V25A	V25AB-36 CABLE ASSEMBLY CIRCUIT SUMMARY								
	TO CONNECTOR J2 - 7 PIN SOCKET MIGHTY MOUSE CONNECTOR								
CON									
Pin	WIRE NAME	TWISTED PAIR	SIGNAL						
SHELL	NOT CONNECTED								
<u> </u>	WIRE 13	- TP-1	+ COIL						
2	WIRE 25	''''	- COIL						
3	WIRE 12	TP-2	+ CLOSED SENSOR						
4	WIRE 24	IF-Z	- CLOSED SENSOR						
5	WIRE 11	TD 2	+ OPEN SENSOR						
6	WIRE 23	TP-3	- OPEN SENSOR						
7	N/C		N/C						



0.720in 18.29mm



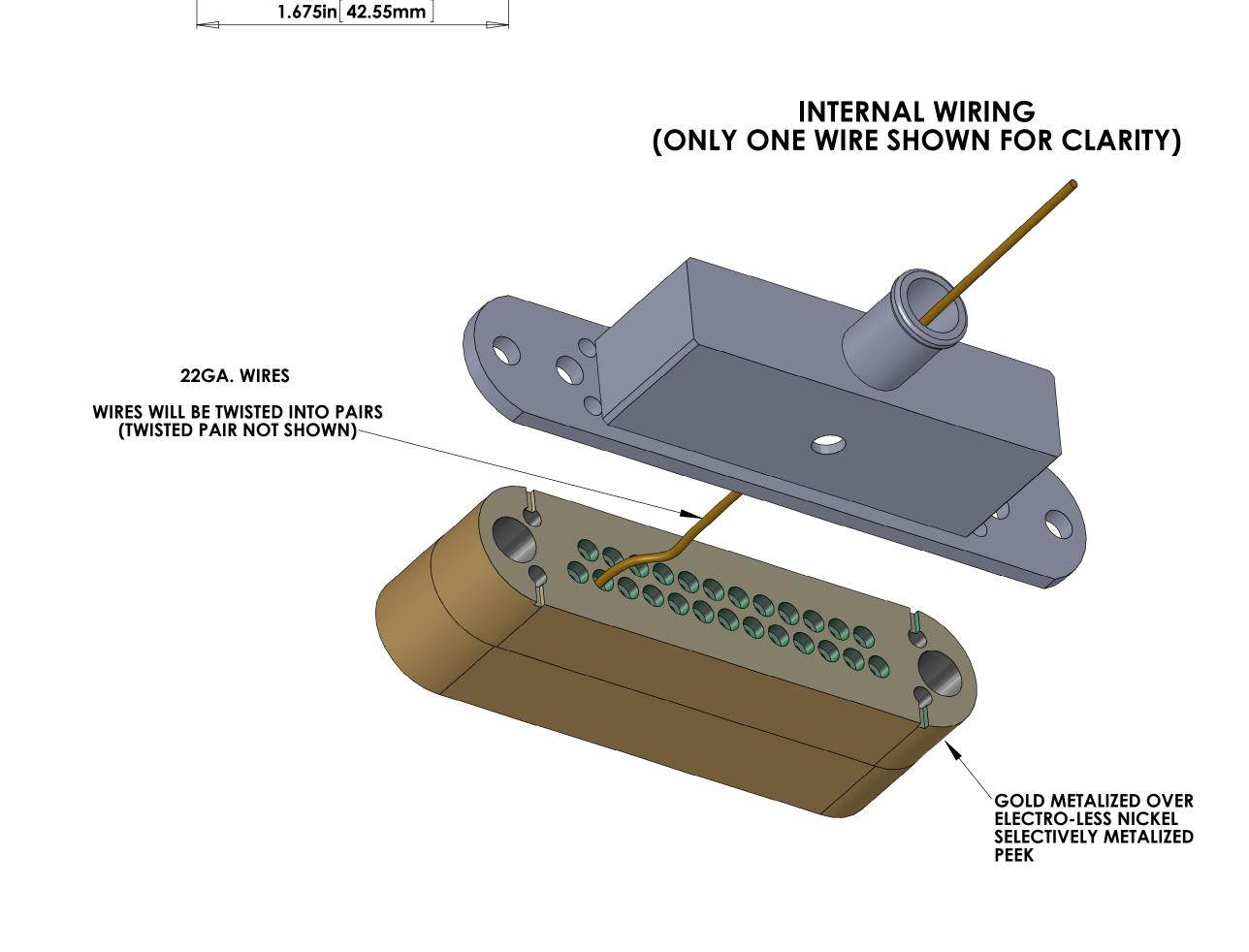
BILL OF MATERIALS									
ITEM NO.	PART NUMBER	PART NUMBER DESCRIPTION							
1	TICOR #T\$0149-25CG20B\$1-225F								
2	(TICOR #TS0125-3) OR EQUIVALENT **	DB25 CONNECTOR BACKSHELL (WITH EARS) FOR UHV (STAINLESS STEEL) WITH Ø0.225" i.d. PORT	I						
3	GLENAIR # 803-001-06M6-7SN-598A	7 PIN MIGHTY MOUSE SOCKET CONNECTOR (J2)	1						
4	COONER WIRE # CZ2205 22GA PFA INSULATED BIOMEDICAL WIRE	6 COND. (3 TWISTED PAIR) CABLE WITH ⑤ PEEK OVERBRAID. AND NO SHIELD	1	36in.*					
(5)	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	1	Soin.					
6	GLENAIR # 600-052 or BAND-IT # A10086	GLENAIR # 600-052 STANDARD BRAID CLAMP or BAND-IT PART # A10086 (0.240" WIDE) ("BAG OF 100" # A10089)	2						
7	HELICOIL #1185-04EN336	#4-40 Nitronic 60® HELICOIL 0.336" LENGTH	2						

* NOTE: THE OVERALL LENGTH IS MEASURED FROM BRAID CLAMP (25 PIN D) TO BRAID CLAMP (7 PIN MIGHTY MOUSE) OF THE CABLE. USE WHATEVER LENGTH IS NECESSARY FOR THE

INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTH. ** NOTE: SEE THE "TICOR CONNECTOR PART NUMBER BUILDER" DCC#D1000219 FOR DETAILS ON THIS PART NUMBER.

NOTES: (UNLESS OTHERWISE SPECIFIED)

- A. MATERIAL: a. J1 CONNECTOR SHELL GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30.
 - b. BACKSHELL STAINLESS STEEL WITH VENT HOLE. c. CONTACTS - BERYLLIUM COPPER ALLOY C17300,
 - 0.000050 MIN. GOLD OVER NICKEL. d. HARDWARE: STAINLESS STEEL, PASSIVATED. e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED.
- B. CABLE 6 COND. 22 AWG, (150 STRD 44 AWG) WITH PFA INSULATION. 3 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) OVERALL PEEK BRAID MIN. 50% COVERAGE.
- OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN. C. CONNECTORS WILL BE SUPPLIED WITH HARDWARE.



 \emptyset 0.315in[8mm]

0.050in 1.27mm

0.375in 9.53mm

 \emptyset 0.275in[6.99mm]

 \emptyset 0.225in[5.72mm

		AM DIVERTER CABLE TABLE TO BEAM DIVERTER
V25AB-3	6 - V-DB25H	D M/S1-36-MM7PINHD F/X
	STANDARD USE	FOR THIS CABLE
SUBSYSTEM	AIR/VAC	STANDARD USE
ISC	IN-VAC	TRANSMON BEAM DIVERTER

GLENAIR CLAMPING BANDS # 600-052 (BAND-IT # A10086) x2 LOCATIONS

	NOTES AND TOLERANCES: (UNLESS OTHERWI	ISE SPECIFIED)		ノリリリ	CALIFORNIA INISTITUTE OF TECHNOLOGY	PART NAM	\E					
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER AS 2. REMOVE ALL SHARP EDGES EDGES APPROXIMATLEY R.02 F	5, .005015. FOR MACHINED PAF	rts. round all	LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CUS	STOM (CABLE SI	PEC	IFICAT	ION V2	:5AB-3
TOLERANCES:	3. DO NOT SCALE FROM DRAY	WING.		SYSTEM	SUB-SYSTEM	DESIGNER	R. ABBOTT	JUL/02/2012 SIZE	DWG. N	D .		REV
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MU AND FREE OF SULFUR, SILICON	JST BE FULLY SYNTHETIC, FULLY W NE, AND CHLORINE.	VATER SOLUBLE		ISC		E. BROWN	JUL/02/2012 F	D	1000	237	V
	MATERIAL	F	FINISH	NEXT ASSY		CHECKER		_			Z J /	•
ANGULAR±°			μinch			APPROVAL	L	SCALE	2:1	PROJECTION:	⊕ f →	SHEET 1 OF 1