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: DXXXXXXXX-VY, S/N 001.

VIBRATORY TOOL MAY BE USED.

 APPROXIMATE WEIGHT = X.XXX LB.
 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 E0900364.9. 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

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.

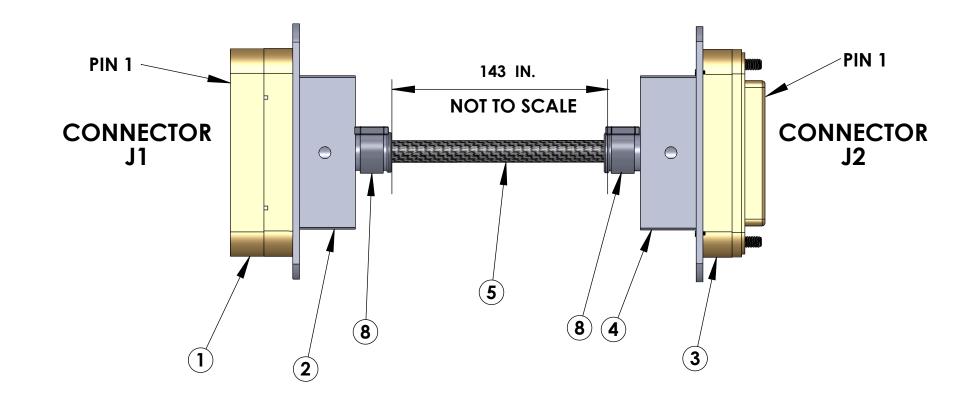
REFER TO LIGO-E0900364.

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

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 OTHERWISE NOTED.

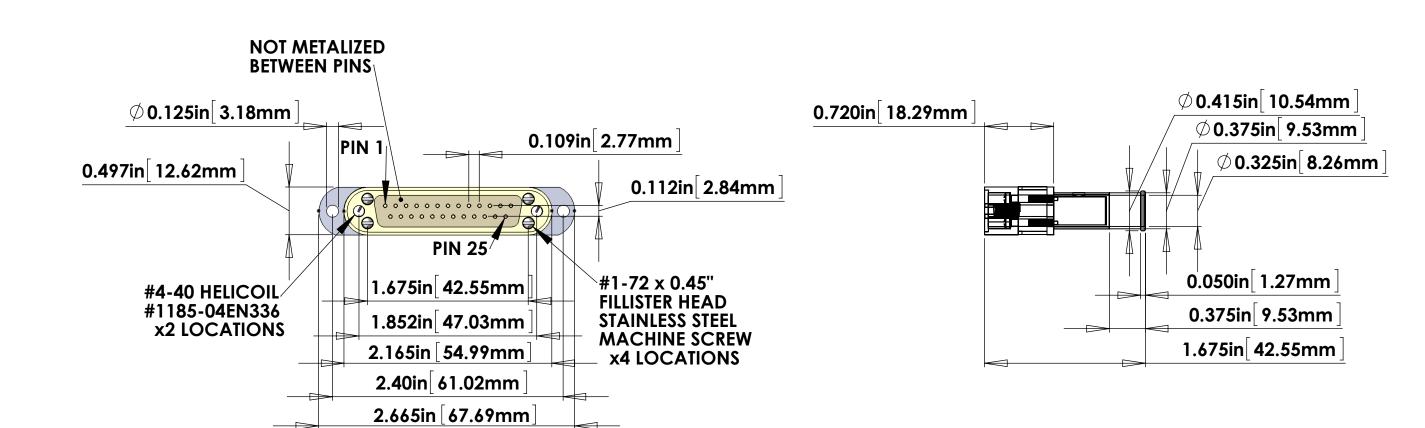


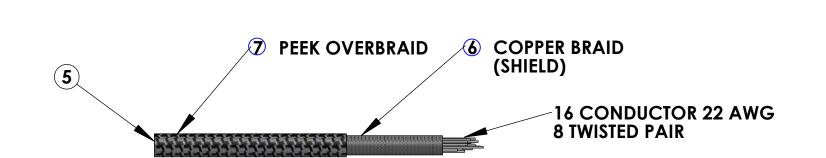
#4-40 HELICOIL #1185-04EN336

x2 LOCATIONS

CONNECTOR







ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH	
1	TICOR #	DB25 MALE CONNECTOR (J1) FOR UHV (GOLD METALIZED PEEK)	1		
2	(TS0149-25CG20BS1-325F) OR EQUIVALENT	DB25 CONNECTOR BACKSHELL (WITH EARS) (LARGE PORT) FOR UHV (STAINLESS)	1		
3	TICOR #	1			
4	(TS0148-25CG20BS1-325F) OR EQUIVALENT	DB25 CONNECTOR BACKSHELL (WITH EARS) (LARGE PORT) FOR UHV (STAINLESS)	1		
(5)	COONER WIRE # CZ2205 + 8 + 9	16 COND. 22Ga. (8 TWISTED PAIR) CABLE WITH 6 COPPER BRAID (SHIELD) AND 7 PEEK OVERBRAID	1		
6	CONTINENTAL PART #24x3x40BC COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC				
7	#6759	1			
8	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		
9	HELICOIL #1185-04EN336	#4-40 Nitronic 60® HELICOIL 0.336" LENGTH	2		

* NOTE: USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS.

NOTES: (UNLESS OTHERWISE SPECIFIED)

A. MATERIAL:
a. J1 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30.
b. J2 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30.

c. BACKSHELLS - STAINLESS STEEL WITH VENT HOLE.
d. CONTACTS - BERYLLIUM COPPER ALLOY C17300,

0.000050 MIN. GOLD OVER NICKEL.

e. HARDWARE: STAINLESS STEEL, PASSIVATED.
f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO.

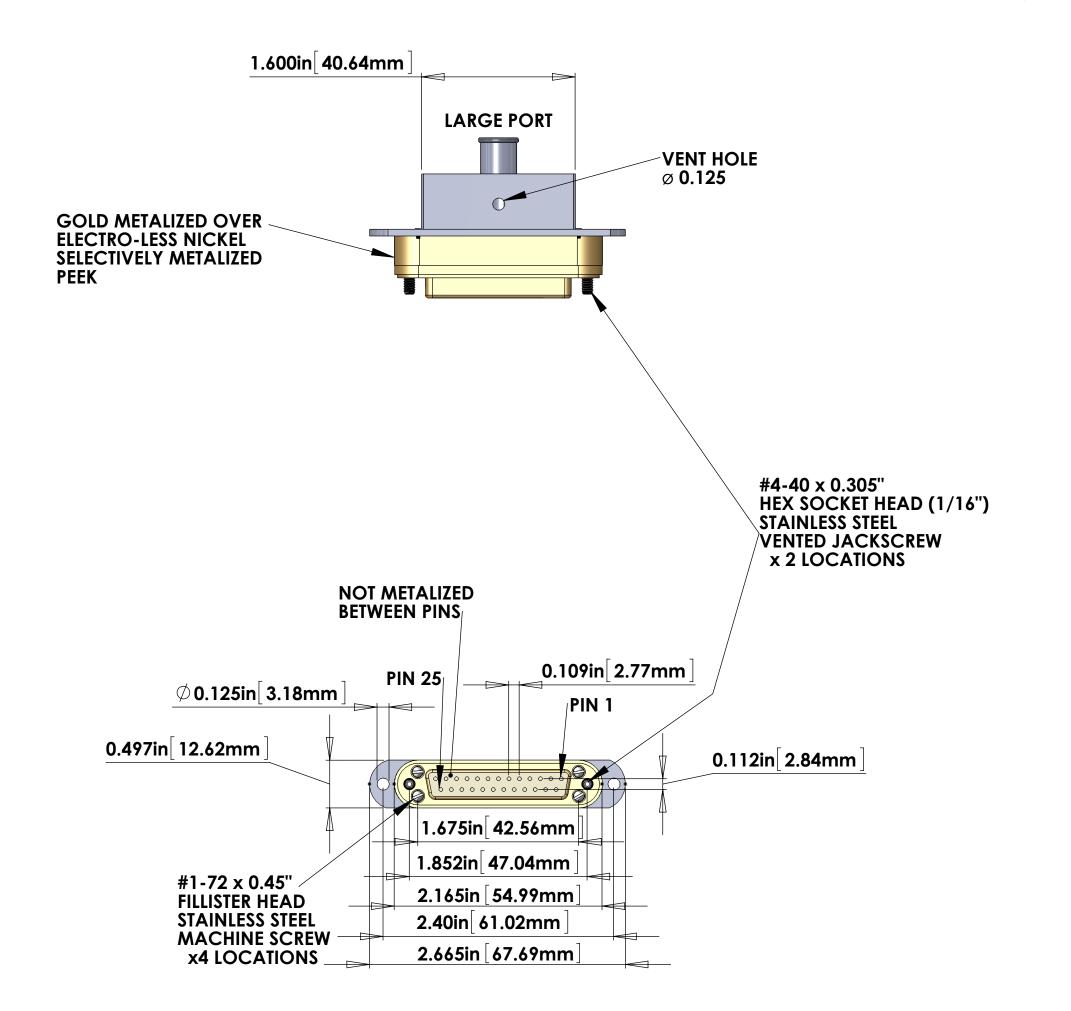
B. CABLE: 16 COND. 22 AWG, (150 STRD 44 AWG) WITH 0.005" PFA INSULATION. (COONER WIRE #CZ2205) 8 TWISTED PAIRS (4 TO 5 TWISTS PER INCH).

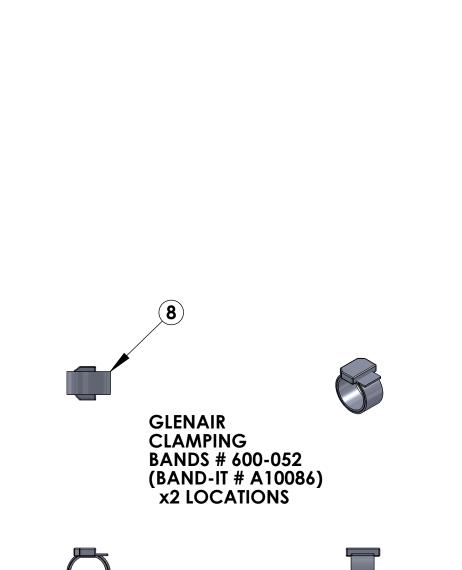
OVERALL 40AWG COPPER BRAID 50% COVERAGE - SUPPLIED BY LIGO. OVERALL PEEK BRAID MIN. 50% COVERAGE.

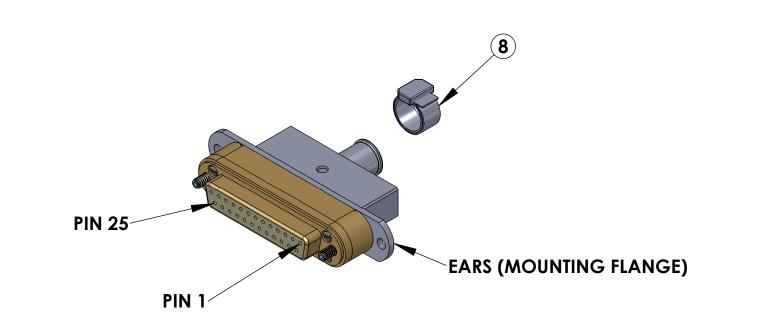
OVERALL PEEK BRAID MIN. 50% COVERAGE.
OVERALL CABLE O.D. WILL BE 0.240 IN.

C. CONNECTORS: WILL BE SUPPLIED WITH HARDWARE. SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.





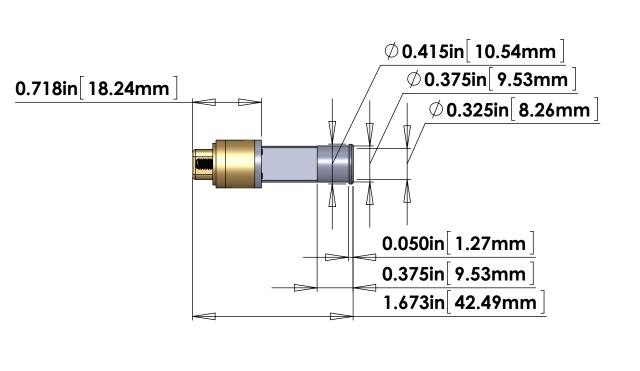




DATE

DCN#

DRAWING TREE #



CABLE NAME	COND WIRE ID	TWISTED PAIR	LENGTH *	FROM	TO Conn. J2	
V25A-143	16 COND. CABLE	(8 TOTAL)	143 in.	Conn. J1		
	SHIELD		143 in	PIN 1, SHELL	PIN 1, SHELL	
	W13		143 in	PIN 13	PIN 13	
	W25	TP-1	143 in	PIN 25	PIN 25	
	W12	TD O	143 in	PIN 12	PIN 12	
	W24	TP-2	143 in	PIN 24	PIN 24	
	W11	TD 2	143 in	PIN 11	PIN 11	
	W23	TP-3	143 in	PIN 23	PIN 23	
	W10	TD 4	143 in	PIN 10	PIN 10	
	W22	TP-4	143 in	PIN 22	PIN 22	
	W9	TD <i>C</i>	143 in	PIN 9	PIN 9	
	W21	TP-5	143 in	PIN 21	PIN 21	
	W8	TD /	143 in	PIN 8	PIN 8	
	W20	TP-6	143 in	PIN 20	PIN 20	
	W7	TD 7	143 in	PIN 7	PIN 7	
	W19	TP-7	143 in	PIN 19	PIN 19	
	W6	TD 0	143 in	PIN 6	PIN 6	
	W18	TP-8	143 in	PIN 18	PIN 18	

SEE REFERENCE DCC# LIGO-D1100670

LENGTH AS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH.

* THE LENGTH SHOWN IN THIS LIST IS THE LENGTH OF THE CABLE BETWEEN THE TWO CONNECTORS. ADD ADDITIONAL

		OMOTOR CABLE DED TRANSMON TABLE
V-I	DB25HD M/S1-14	3-DB25HD F/S1
	STANDARD USE FO	OR THIS CABLE
SUBSYSTEM	AIR/VAC	STANDARD USE
	IN-VAC	PICOMOTORS TOP TO TABLE

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)			CALIEODNIA INSTITUTE OF TECHNOLOGY		PART NAME						
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED FEDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS.	'ARTS. ROUND ALL	LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CUSTO	OM CA	ABLE	SPECIF	ICATION	V250	C-143
TOLERANCES:	3. DO NOT SCALE FROM DRAWING.		SYSTEM	SUB-SYSTEM	DESIGNER R.	ABBOTT	MAY/07/2012	SIZE DWG. N	O.		REV.
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.			ISC	DRAFTER E.	BROWN	MAY/07/2012		10009	21	V6
ANGULAR±°	MATERIAL	FINISH	NEXT ASSY		CHECKER				10007	4 I	V O
	Material <not specified=""></not>	μinc	ch		APPROVAL			SCALE: 1:1	PROJECTION:	\oplus	SHEET 1 OF 1