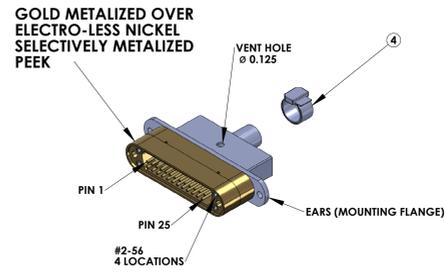
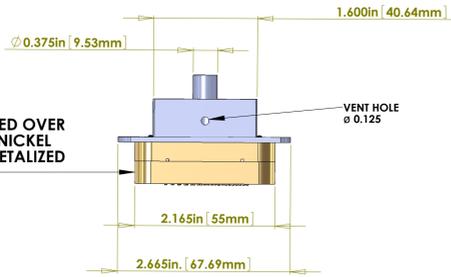


- NOTES CONTINUED:
- SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: DXXXXXXV, S/N 001. VIBRATORY TOOL MAY BE USED.
  - APPROXIMATE WEIGHT = X.XXXX LB.
  - MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364
  - 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
  - ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL AFTER DELIVERY OF FINISHED PARTS. USE NIBRONIC 40 THREADED INSERTS.
  - 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.
  - SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.
  - 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.
  - DIMENSIONS APPLY BEFORE PORCELAIN COATING UNLESS SPECIFIED.
  - 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.



CONNECTOR J1



GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK

NOT METALIZED BETWEEN PINS

NOT METALIZED BETWEEN PINS

NOT METALIZED BETWEEN PINS

NOT METALIZED BETWEEN PINS



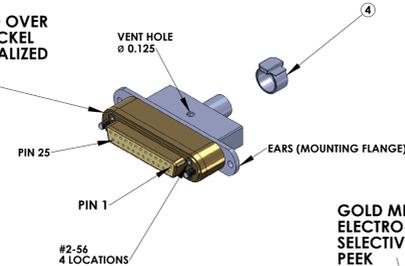
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	CUSTOM DB25 MALE	DB25 MALE CONNECTOR (J1) FOR UHV (METALIZED PEEK)	1	
2	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL (WITH EARS) (LARGE PORT) FOR UHV (STAINLESS)	2	
3	COONER WIRE # C22205 (6 + 7)	16 COND. 22G <sub>0</sub> (8 TWISTED PAIR) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	1	143in *
4	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	
5	CUSTOM DB25 FEMALE	DB25 FEMALE CONNECTOR (J2) FOR UHV (METALIZED PEEK)	1	
6	CONTINENTAL PART #24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC	1	143in *
7	#6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	1	143in *

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

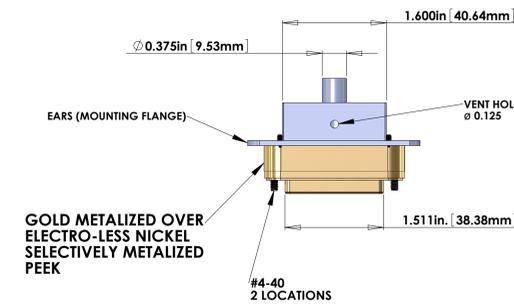
NOTES: ( UNLESS OTHERWISE SPECIFIED )

- MATERIAL:
  - J1 CONNECTOR SHELL - PEEK VICTREX 450GL30
  - J2 CONNECTOR SHELL - SELECTIVELY METALIZED OVER PEEK VICTREX 450GL30.
  - BACKSHELLS - STAINLESS STEEL WITH VENT HOLE
  - CONTACTS - BERYLLIUM COPPER ALLOY C17300 0.000050 MIN. GOLD OVER NICKEL
  - HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
  - PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO
- CABLE 16 COND. 22 AWG, (150 STRD 44 AWG) WITH 0.005" PFA INSULATION (COONER WIRE #C22205) 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 CABLE O.D. WILL BE 0.240 IN.
- CONNECTORS WILL BE SUPPLIED WITH HARDWARE (LENGTH OF SCREWS AS SHOWN ARE APPROXIMATE SCREWS SHOULD BE THE PROPER LENGTH FOR PROPER MATING)

GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK



CONNECTOR J2

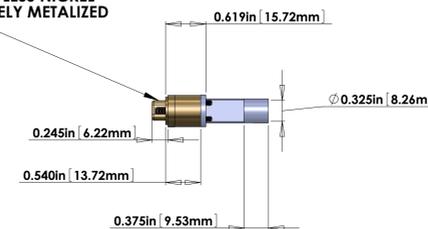


GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK

NOT METALIZED BETWEEN PINS

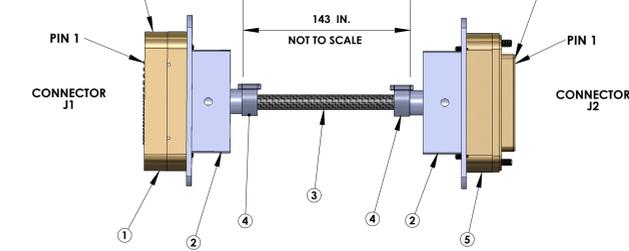
GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK

GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK



GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK

GOLD METALIZED OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK



V25C-143 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25HD M/S1-143-DB25HD F/S1

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

PIN 14,2,15,3,16,4,17,5 N/C (NOT CONNECTED)  
\* The length shown in this list is the length of the cable between the two connectors. Add additional length as necessary for the internal wiring of the connectors and strip length.

SEE REFERENCE DCC# LIGO-D1100670

ISC TRANSMON PICOMOTOR CABLE SEISMIC TABLE TO SUSPENDED TRANSMON TABLE V-DB25HD M/S1-143-DB25HD F/S1		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	PICOMOTORS TOP TO TABLE

DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME			
TOLERANCES: .XX ± .XXX ±		1. INTERPRET DRAWING PER ASME Y14.5-1994 2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		LIGO		CUSTOM CABLE SPECIFICATION V25C-143		DESIGNER: R.ABBOTT	
ANGULAR ± °		MATERIAL: Material <not specified>		SYSTEM: ISC		DRAFTER: E.BROWN			
		FINISH: µinch		NEXT ASSY:		CHECKER:			
				APPROVAL:		SCALE: 1:1			
						DWG. NO. D1000921			
						REV. v4			
						PROJECTION:			
						SHEET 1 OF 1			