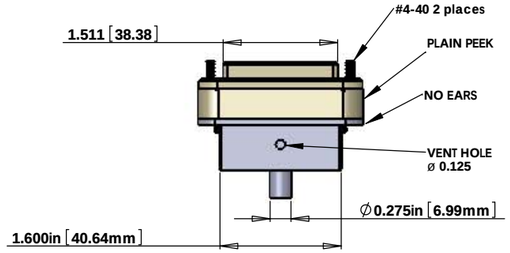
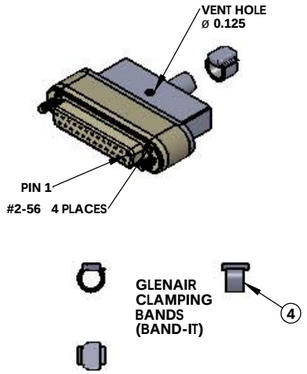
NOTES CONTINUED:

Ⓢ 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: DXXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.

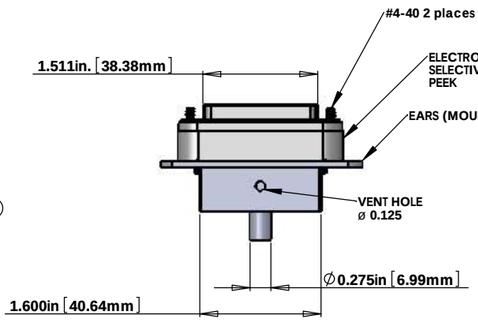
REV.	DATE	DCN #	DRAWING TREE #

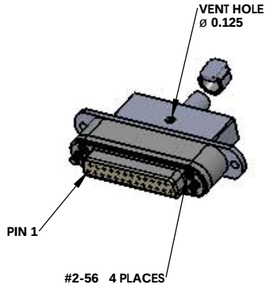
CONNECTOR J1

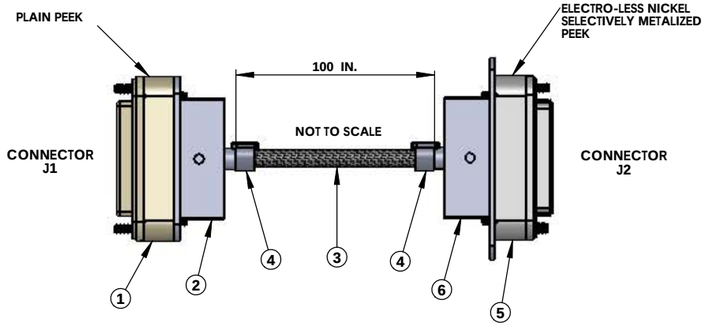


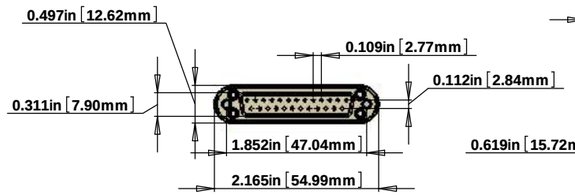


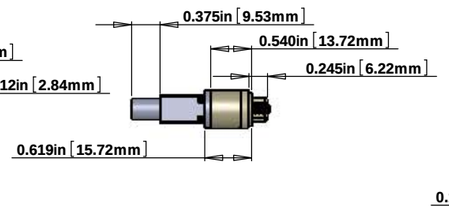
CONNECTOR J2

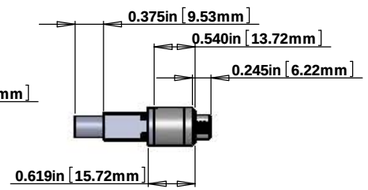


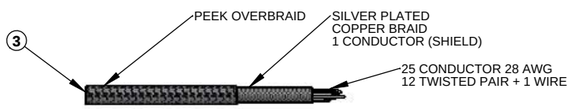












ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
①	CUSTOM DB25 FEMALE	DB25 FEMALE CONNECTOR (J1) FOR UHV (PEEK)	1	
②	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL (NO EARS) FOR UHV (STAINLESS)	1	
③	C1	25 COND. (12 TW PAIR + 1 WIRE + SHIELD) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	1	100in +
④	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP (BAND - IT)	2	
⑤	CUSTOM DB25 FEMALE	DB25 FEMALE CONNECTOR (J2) FOR UHV (METALIZED PEEK)	1	
⑥	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL (WITH EARS) FOR UHV (STAINLESS)	1	

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

V25A-100 CABLE ASSEMBLY CIRCUIT SUMMARY
V-DB25 F/S1-100-DB25 F/S1

CABLE NAME	COND.-WIRE ID	TWISTED PAIR	LENGTH *	FROM	TO
V25A-100	25 COND. CABLE	(12 TOTAL)	100 in.	Conn. J1	Conn. J2
	W1	SHIELD	100 in	PIN 1, SHELL	PIN 1, SHELL
	W2	**TP-1**	**100 in**	**PIN 2**	**PIN 2**
	W14		**100 in**	**PIN 14**	**PIN 14**
	W3	TP-2	100 in	PIN 3	PIN 3
	W15		100 in	PIN 15	PIN 15
	W4	**TP-3**	**100 in**	**PIN 4**	**PIN 4**
	W16		**100 in**	**PIN 16**	**PIN 16**
	W5	TP-4	100 in	PIN 5	PIN 5
	W17		100 in	PIN 17	PIN 17
	W6	**TP-5**	**100 in**	**PIN 6**	**PIN 6**
	W18		**100 in**	**PIN 18**	**PIN 18**
	W7	TP-6	100 in	PIN 7	PIN 7
	W19		100 in	PIN 19	PIN 19
	W8	**TP-7**	**100 in**	**PIN 8**	**PIN 8**
	W20		**100 in**	**PIN 20**	**PIN 20**
	W9	TP-8	100 in	PIN 9	PIN 9
	W21		100 in	PIN 21	PIN 21
	W10	**TP-9**	**100 in**	**PIN 10**	**PIN 10**
	W22		**100 in**	**PIN 22**	**PIN 22**
	W11	TP-10	100 in	PIN 11	PIN 11
	W23		100 in	PIN 23	PIN 23
	W12	**TP-11**	**100 in**	**PIN 12**	**PIN 12**
	W24		**100 in**	**PIN 24**	**PIN 24**
	W13	TP-12	100 in	PIN 13	PIN 13
	W25		100 in	PIN 25	PIN 25

*** 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.**

V-DB25 F/S1-100-DB25 F/S1		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	GS-13,L-4C

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL: a. J1 CONNECTOR SHELL - PEEK VICTREX 450GL30
   b. J2 CONNECTOR SHELL - SELECTIVELY METALIZED OVER PEEK VICTREX 450GL30.
2. c. BACKSHELLS - STAINLESS STEEL WITH VENT HOLE.
3. d. CONTACTS - BERYLLIUM COPPER ALLOY C17300
   0.000050 MIN. GOLD OVER NICKEL
   e. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
   f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO
4. CABLE 25 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE
   12 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE
   OVERALL 40AWG COPPER BRAID 50% COVERAGE - SUPPLIED BY LIGO
   OVERALL PEEK BRAID MIN. 50% COVERAGE
   OVERALL CABLE O.D. WILL BE 0.240 IN.
3. CONNECTORS WILL BE SUPPLIED WITH HARDWARE (LENGTH OF SCREWS AS SHOWN ARE APPROXIMATE SCREWS SHOULD BE THE PROPER LENGTH FOR PROPER MATING)

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)			LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	CUSTOM CABLE SPECIFICATION V25A-100			
DIMENSIONS ARE IN TOLERANCES: .XX ± .XXX ± ANGULAR± °	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM LIGO	SUB-SYSTEM SEI, ISC	DESIGNER	B.ABBOTT	AUG/24/2010	SIZE D	DWG. NO. LIGO - D1000221 REV. v4
	MATERIAL Material <not specified>	FINISH µinch	NEXT ASSY		DRAFTER	E.BROWN	AUG/24/2010		
					CHECKER				
					APPROVAL			SCALE: 1:1	PROJECTION: SHEET 1 OF 1

D1000221.cat.bkt V25A-100_V4, PART PDM REV: , DRAWING PDM REV: