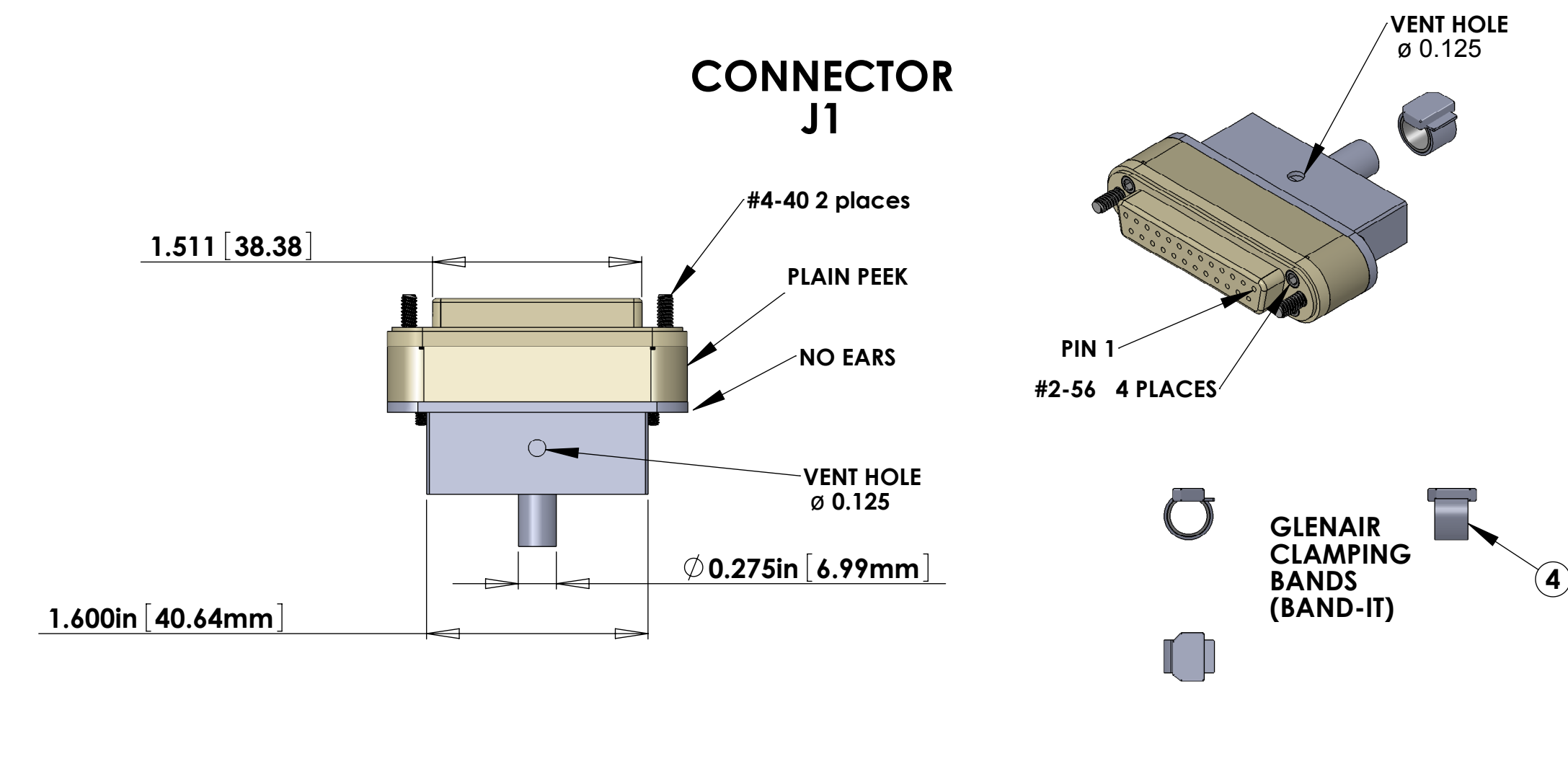


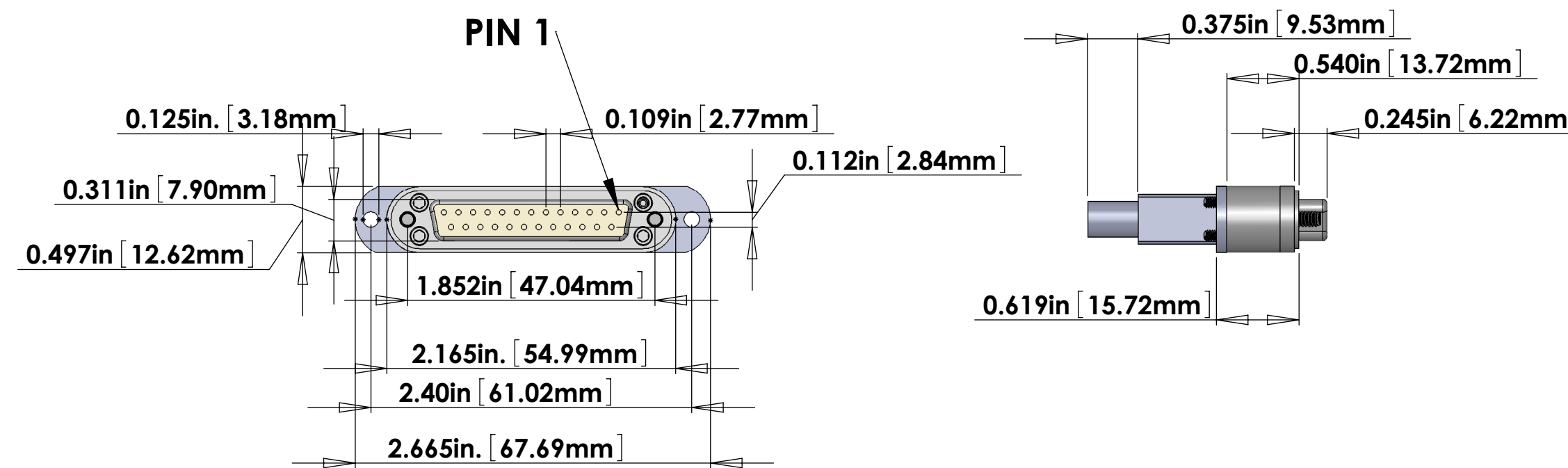
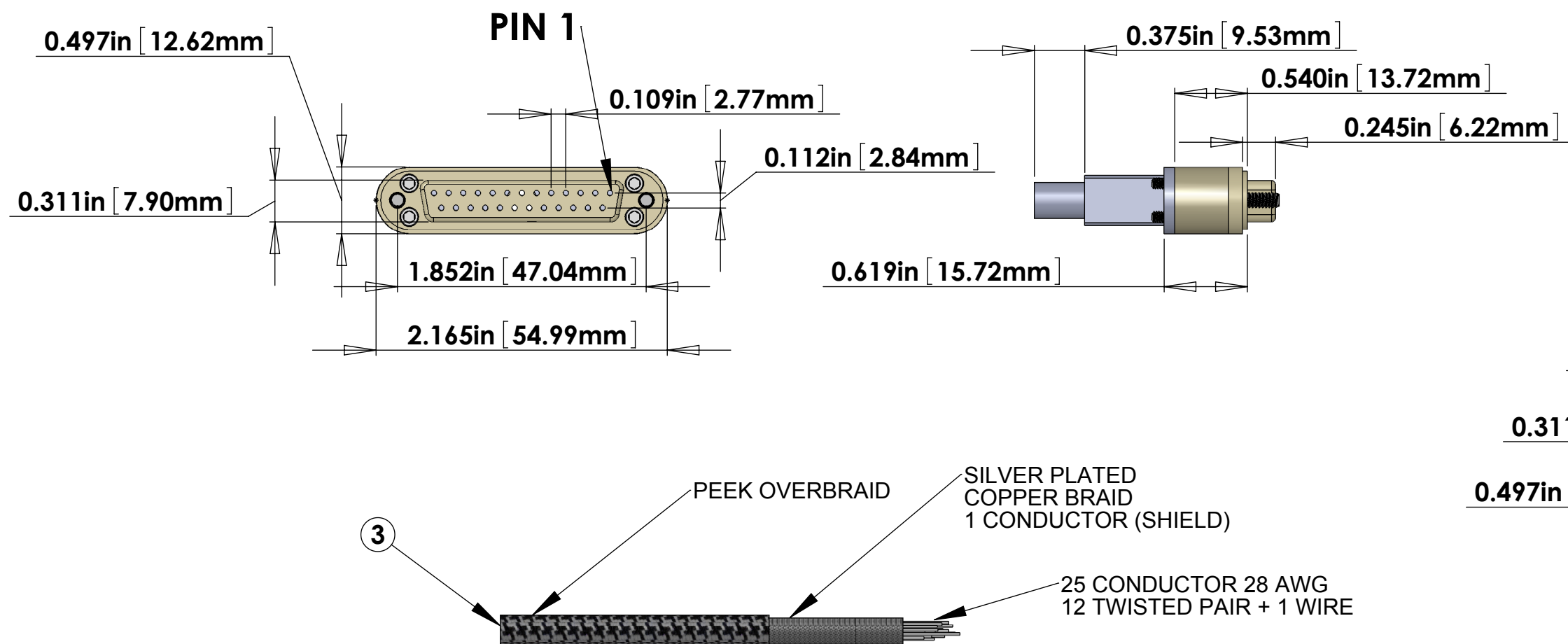
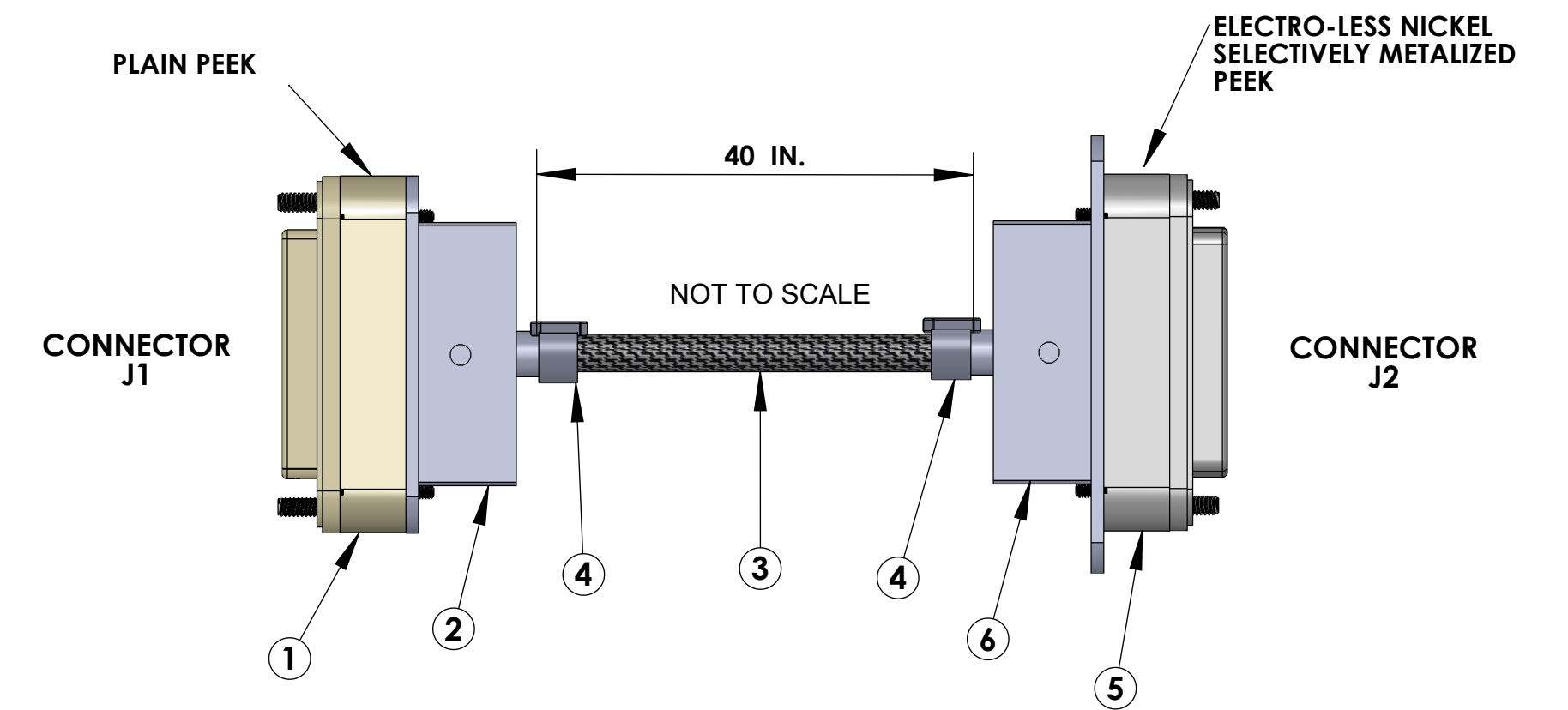
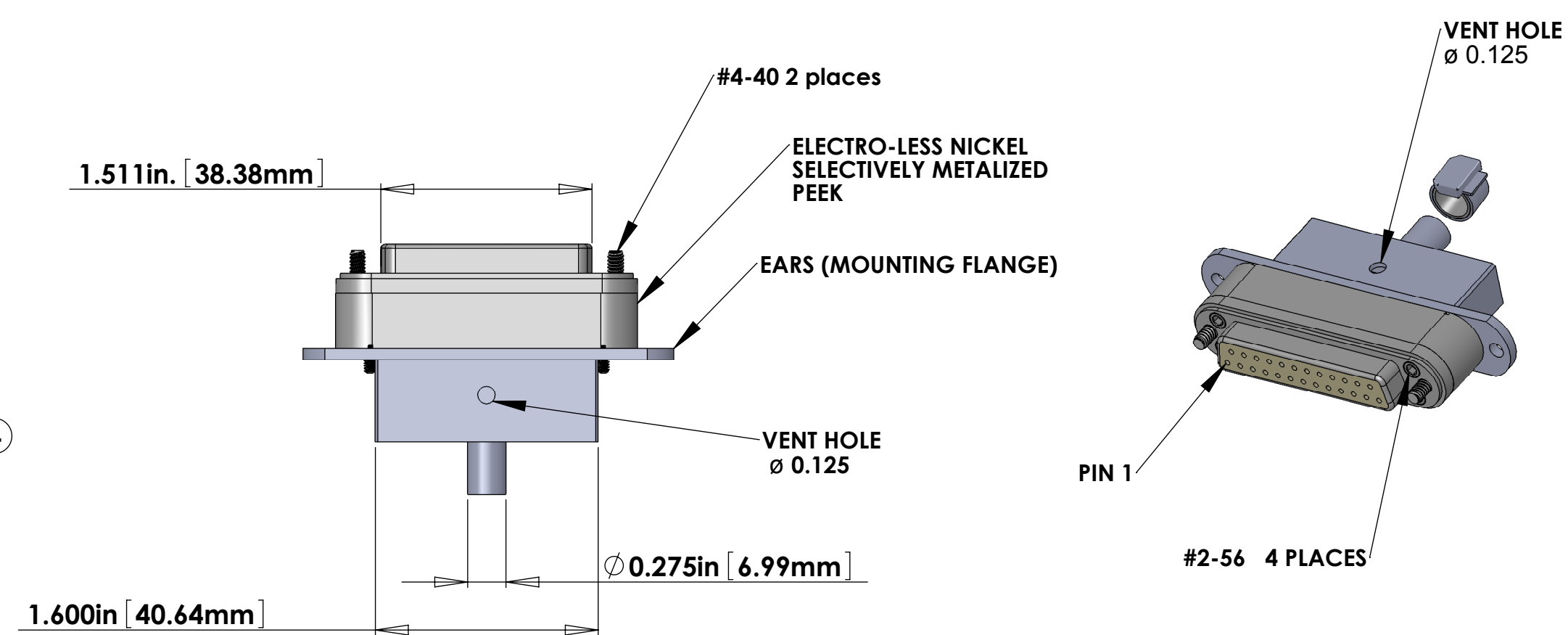
NOTES CONTINUED:
 ⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: DXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.

REV.	DATE	DCN #	DRAWING TREE #

CONNECTOR J1



CONNECTOR J2



V25A-40 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 F/S1-40-DB25 F/S1

CABLE NAME	COND.-WIRE ID	TWISTED PAIR	LENGTH *	FROM	TO
V25A-40	25 COND. CABLE	(12 TOTAL)	40 in.	Conn. J1	Conn. J2
	W1	SHIELD	40 in	PIN 1, SHELL	PIN 1, SHELL
	W2	TP-1	40 in	PIN 2	PIN 2
	W14		40 in	PIN 14	PIN 14
	W3	TP-2	40 in	PIN 3	PIN 3
	W15		40 in	PIN 15	PIN 15
	W4	TP-3	40 in	PIN 4	PIN 4
	W16		40 in	PIN 16	PIN 16
	W5	TP-4	40 in	PIN 5	PIN 5
	W17		40 in	PIN 17	PIN 17
	W6	TP-5	40 in	PIN 6	PIN 6
	W18		40 in	PIN 18	PIN 18
	W7	TP-6	40 in	PIN 7	PIN 7
	W19		40 in	PIN 19	PIN 19
	W8	TP-7	40 in	PIN 8	PIN 8
	W20		40 in	PIN 20	PIN 20
	W9	TP-8	40 in	PIN 9	PIN 9
	W21		40 in	PIN 21	PIN 21
	W10	TP-9	40 in	PIN 10	PIN 10
	W22		40 in	PIN 22	PIN 22
	W11	TP-10	40 in	PIN 11	PIN 11
	W23		40 in	PIN 23	PIN 23
	W12	TP-11	40 in	PIN 12	PIN 12
	W24		40 in	PIN 24	PIN 24
	W13	TP-12	40 in	PIN 13	PIN 13
	W25		40 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.

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	40in +
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.

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 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.
- CONNECTORS WILL BE SUPPLIED WITH HARDWARE (LENGTH OF SCREWS AS SHOWN ARE APPROXIMATE SCREWS SHOULD BE THE PROPER LENGTH FOR PROPER MATING)

STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	GS-13,L-4C
ISC	IN-VAC	OSEMS,LSC RFPD, IN VAC BEAM BLOCKER

DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME CUSTOM CABLE SPECIFICATION V25A-40	
TOLERANCES: .XX ± .XXX ±		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.		LIGO SYSTEM LIGO		DESIGNER B.ABBOTT SEP/21/2011	
ANGULAR ± °		MATERIAL Material <not specified>		SUB-SYSTEM SEI, ISC		SIZE DWG. NO. D LIGO - D1000220	
		FINISH μinch		CHECKER E.BROWN SEP/21/2011		REV. v4	
				APPROVAL		SCALE: 1:1 PROJECTION: SHEET 1 OF 1	