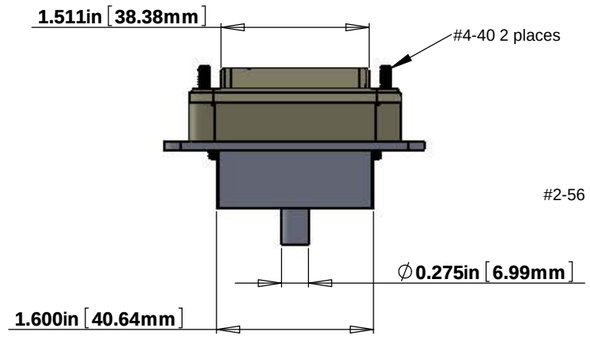

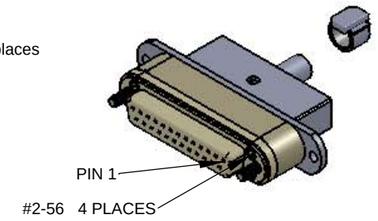

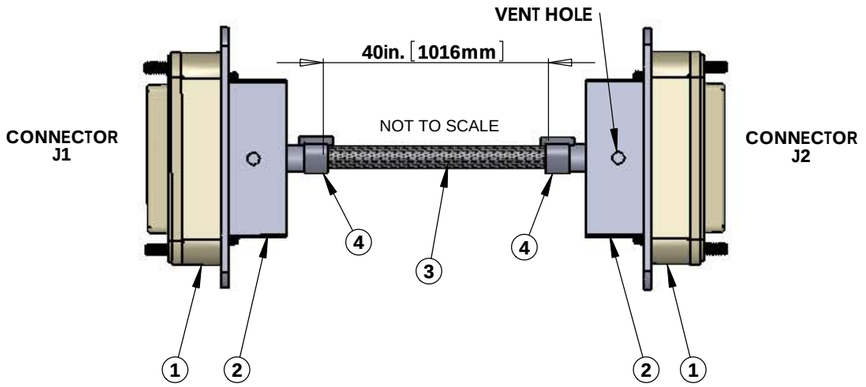

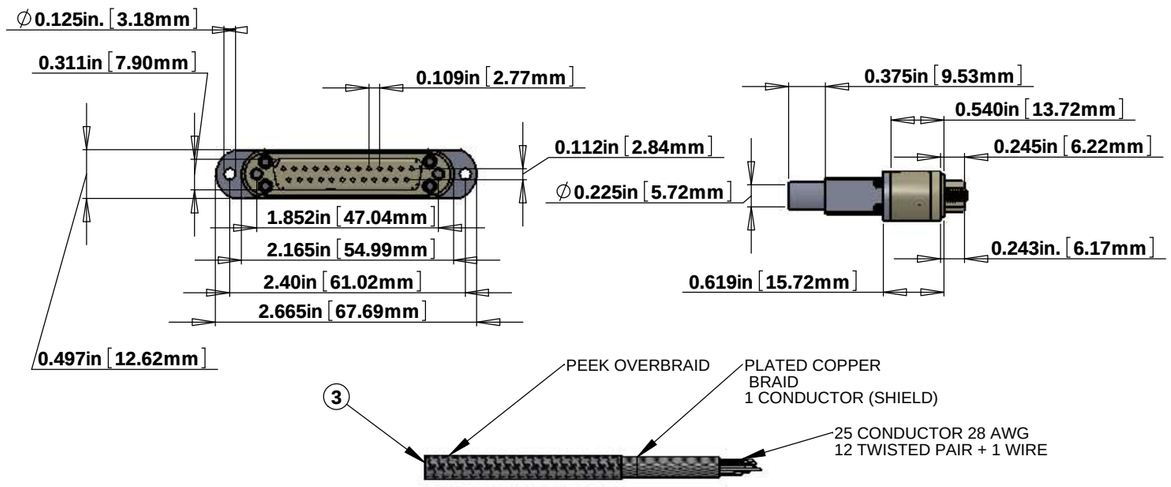

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
①	CUSTOM DB25 FEMALE	DB25 FEMALE CONNECTOR (J1,J2) FOR UHV (PEEK)	2	
②	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	2	
③	C1	25 COND. (12 TW PAIR + 1 WIRE + SHIELD) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	1	40in +
④	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP (BAND - IT)	2	

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

V25A-40 CABLE ASSEMBLY CIRCUIT SUMMARY
V-DB25 F/1-40-DB25 F/S

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	PIN 1
	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.**

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

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. **MATERIAL:**
   a. CONNECTOR SHELL - PEEK VICTREX 450GL30.
   b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
   c. CONTACTS - BERYLLIUM COPPER ALLOY C17300
      0.000050 MIN. GOLD OVER NICKEL
   d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
   e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO

2. 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)

DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	NEXT ASSY	USED ON
REFERENCE DRAWINGS				APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
MATERIAL --
FINISH --
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	E.BROWN	MAY/5/10
CHECKED	B.ABBOTT	MAY/5/10
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:
SUBSYSTEM:
SEI, ISC

LIGO California Institute of Technology
Massachusetts Institute of Technology

CUSTOM CABLE SPECIFICATION V25A-40

SIZE C | DWG. NO. LIGO - D1000220 - v3 | REV.
SCALE:1:1 | WEIGHT: | SHEET 1 OF 1