

5. CABLE IDENTIFICATION: IDENTIFY PER STATEMENT OF WORK.

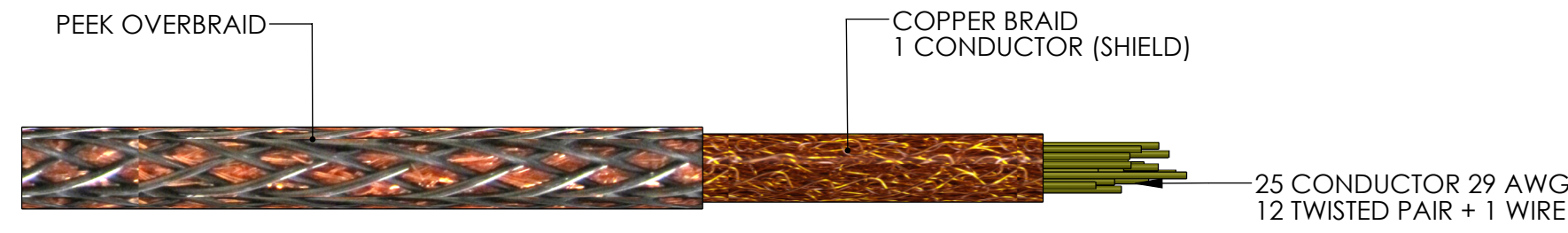
- ⑥ MATERIAL:
- a. J1 CONNECTOR SHELL - PEEK VICTREX 450GL30.
 - b. J2 CONNECTOR SHELL - PEEK VICTREX 450GL30.
 - c. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
 - d. CONTACTS - BERYLLIUM COPPER ALLOY C17300, 0.000050 MIN. GOLD OVER NICKEL.
 - e. HARDWARE: STAINLESS STEEL, PASSIVATED.
 - f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED.

⑦ CABLE: 25 COND, 29 AWG, (51/46), WITH 2 LAYERS OF KAPTON TAPE (COONER WIRE #CZ1104) 12 TWISTED PAIRS (APPROX. 2 TWISTS PER INCH) +1 WIRE
 OVERALL 40AWG COPPER BRAID 50% COVERAGE.
 OVERALL PEEK BRAID MIN. 50% COVERAGE.
 OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

⑧ CONNECTORS WILL BE SUPPLIED WITH HARDWARE. LENGTH OF SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.

⑨ INDICATED LENGTH IS FROM CONNECTOR END TO CONNECTOR END. USE APPROPRIATE LENGTH TO COMPENSATE FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH.

⑩ INDICATED DIMENSIONS SHOWN FOR REFERENCE ONLY.



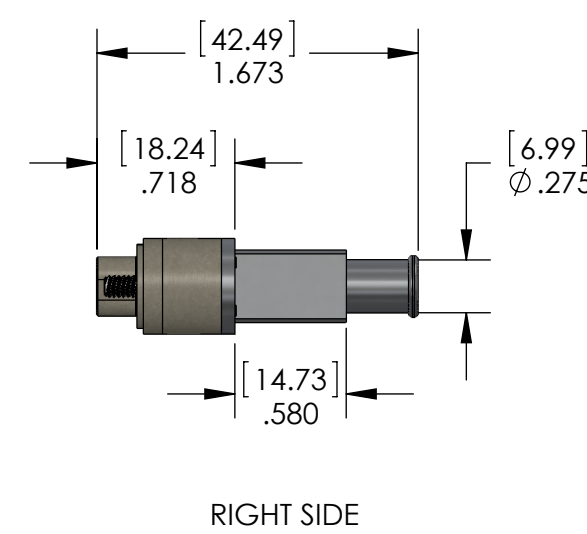
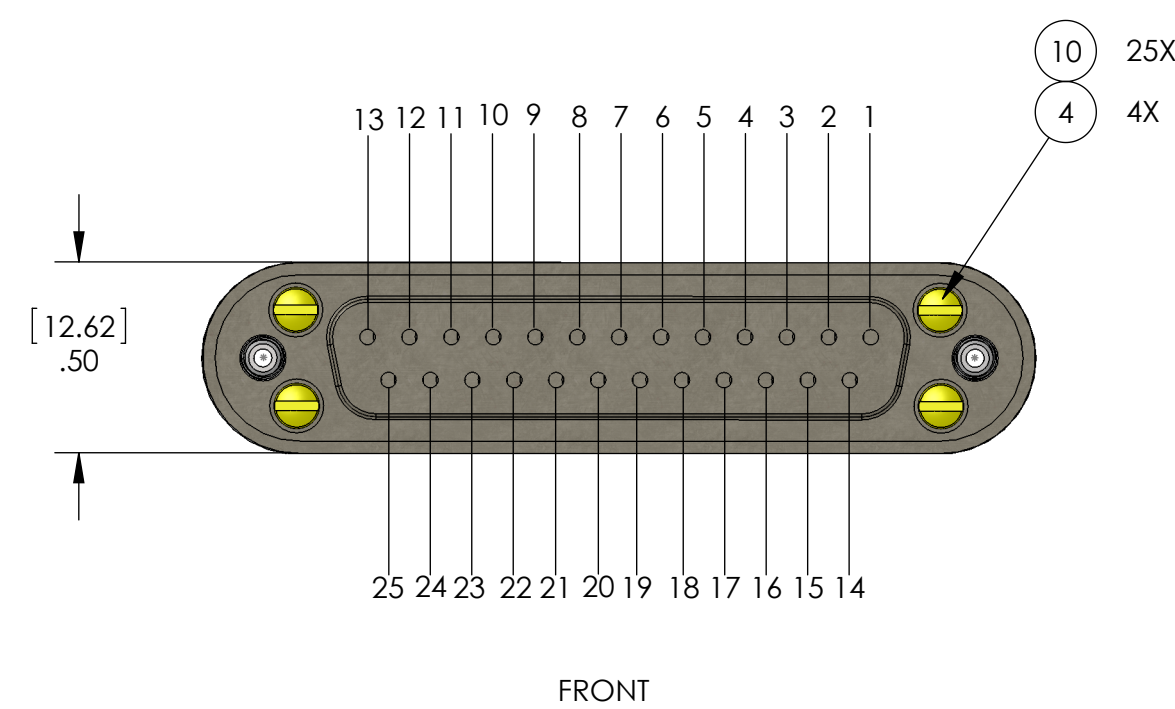
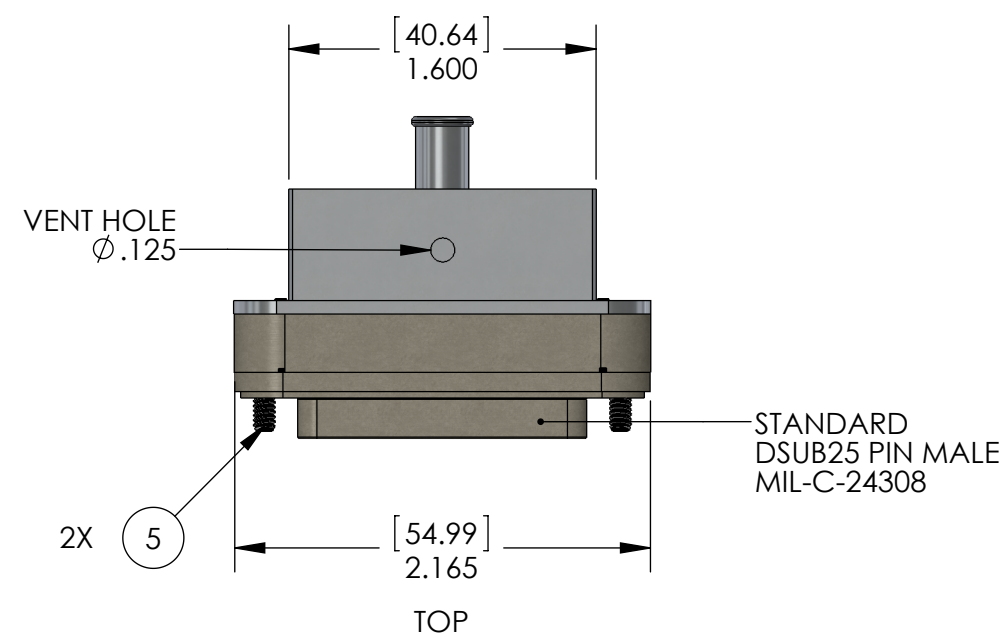
CABLE DETAIL

V-DB25 F/S1-110-DB25 F/S1		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	FROM FLANGE TO TRILLIUM PODS

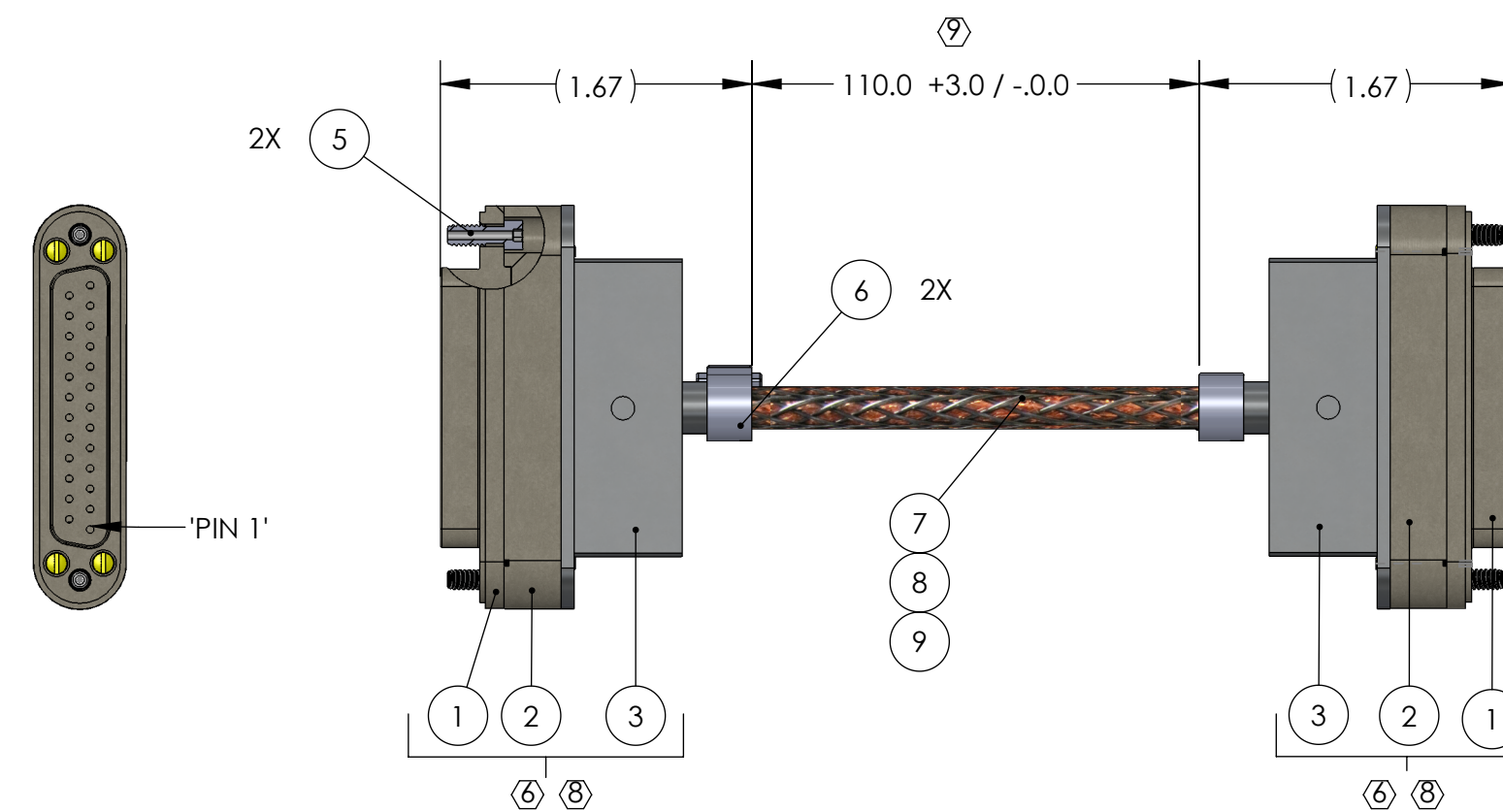
REV.	DATE	DCN #	DRAWING TREE #
v1	04 MAY 2011	-	-
v8	16 JUL 2012	E1200711-v1	-
-	-	-	-

V25A-110 CABLE ASSEMBLY CIRCUIT SUMMARY			
V-DB25 F/S1-216-DB25 F/S1			
FROM 'J1'		TO 'J2'	
PIN	WIRE NAME	TWISTED PAIR	PIN
1, SHELL	WIRE 1		1, SHELL
2	WIRE 2		2
14	WIRE 14	TP-1	14
3	WIRE 3		3
15	WIRE 15	TP-2	15
4	WIRE 4		4
16	WIRE 16	TP-3	16
5	WIRE 5		5
17	WIRE 17	TP-4	17
6	WIRE 6		6
18	WIRE 18	TP-5	18
7	WIRE 7		7
19	WIRE 19	TP-6	19
8	WIRE 8		8
20	WIRE 20	TP-7	20
9	WIRE 9		9
21	WIRE 21	TP-8	21
10	WIRE 10		10
22	WIRE 22	TP-9	22
11	WIRE 11		11
23	WIRE 23	TP-10	23
12	WIRE 12		12
24	WIRE 24	TP-11	24
13	WIRE 13		13
25	WIRE 25	TP-12	25

CONNECTOR 'J1' & 'J2' ⑩



CONNECTOR J1



CONNECTOR J2

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	TOTAL
10	038-5001-2022 TICOR OR EQ.	SIZE 20 SOCKET CONTACTS, 22D CRIMP BARREL	SEE NOTE 7	50
9	6759	PEEK OVERBRAID, 50% COVERAGE MIN.	ZEUS, .016 BLK PEEK DRAWN MONOFILAMENT	A/R
8	24X3X40BC CONTINENTAL CORDAGE	1/8 DIA. COPPER BRAID	COPPER	A/R
7	CZ1104 COONER WIRE	WIRE, 29 AWG (51/46), .023 DIA.	SEE NOTE 7	A/R
6	600-052 GLENAIR OR EQ.	BRAID CLAMPING BAND, .24 WIDE	ST. STEEL, PASSIVATED	2
5	013-2702-0000 TICOR OR EQ.	SCREW, SHC, 4-40 X .305 LG., VENTED	SEE NOTE 6	4
4	013-2701-0001 TICOR OR EQ.	SCREW, FILLISTER HEAD, 1-72 X .450 LG., SLOTTED		8
3		UHV DSUB25 CONNECTOR BACKSHELL, W/O EARS		2
2	034-1002-2520 TICOR OR EQ.	CONTACT RETAINER, DSUB25, UHV, SHIELDED		2
1	034-1001-2520 TICOR OR EQ.	DSUB25 CONNECTOR INTERFACE, UHV, SHIELDED (FEMALE)		2

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN INCHES	
TOLERANCES: .XX ± .10 .XXX ± .005	
ANGULAR ± .5°	
MATERIAL	N/A
FINISH	N/A μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO SUB-SYSTEM: ISC

PART NAME: CUSTOM CABLE SPECIFICATION, V25A-110

DESIGNER: B.ABBOT 08 FEB 2011 SIZE: D DWG. NO. D1100152 REV. v8

DRAFTER: E.BROWN 25 APR 2011

CHECKER: SEE DCC

APPROVAL: SEE DCC

SCALE: NTS PROJECTION: SHEET 1 OF 1

D1100152 ALIGO, SEI, CUSTOM CABLE SPECIFICATION V25A-110, PART FROM REV. X-000, DRAWING FROM REV. X-000