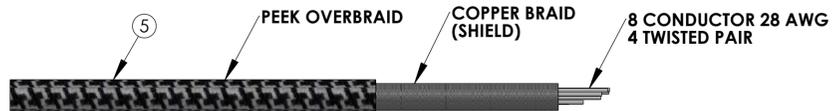
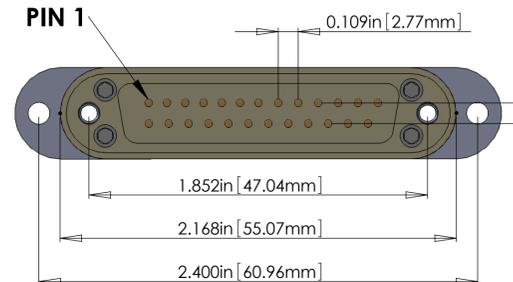
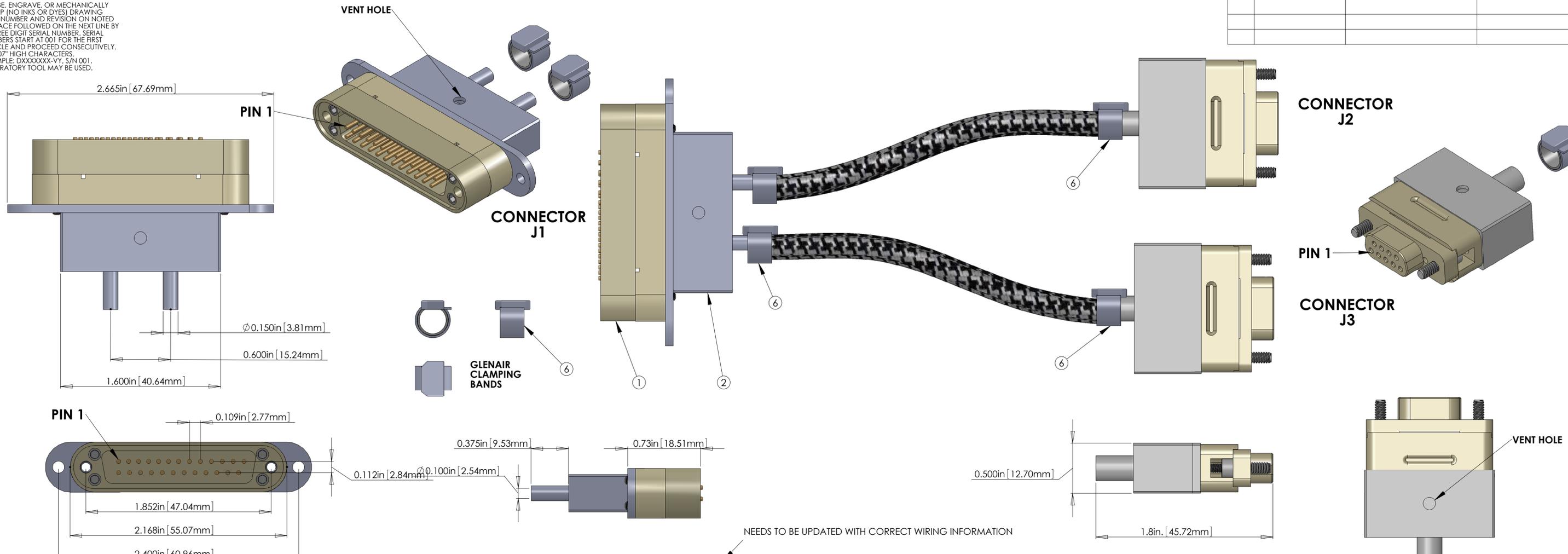


NOTES CONTINUED:
 ⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: DXXXXXX-VY,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

REV.	DATE	DCN #	DRAWING TREE #



BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
①	CUSTOM DB25 MALE	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
②	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
③	CUSTOM DB9 FEMALE	DB9 FEMALE CONNECTOR (J2,J3) FOR UHV (PEEK)	2	
④	CUSTOM BACKSHELL	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	2	
⑤	C1	9 COND. (4 TW PAIR+ SHIELD) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	2	22in. 23in.
⑥	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP	4	

* 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:**
 - CONNECTOR SHELL - PEEK OR METALIZED PEEK - VICTREX 450GL30
 - BACKSHELL - 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 9 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE (SUPPLIED BY LIGO) 4 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 (SUPPLIED BY LIGO) OVERALL CABLE O.D. WILL BE APPROX. 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)**

**V25W CABLE ASSEMBLY CIRCUIT SUMMARY
 V-DB25 M/S-22,23-2_DB9 F/X**

FROM					TO		
CONNECTOR J2 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)					CONNECTOR J2 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)		
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR	PIN	WIRE NAME	SIGNAL
1,9,SHELL	SHIELD (BRAID)		22in.		N/C (not connected)	SHIELD (BRAID)	SHIELD
2	(CABLE 1) WIRE 1	White	22in.	SINGLE WIRE	5	(CABLE 1) WIRE 1	SHIELD
14	(CABLE 1) WIRE 2	White	22in.	TP-1	4	(CABLE 1) WIRE 2	POWER -
3	(CABLE 1) WIRE 3	White	22in.	TP-2	9	(CABLE 1) WIRE 14	POWER - RTN
15	(CABLE 1) WIRE 4	White	22in.	TP-3	3	(CABLE 1) WIRE 3	POWER +
4	(CABLE 1) WIRE 5	White	22in.	TP-4	8	(CABLE 1) WIRE 15	POWER + RTN
16	(CABLE 1) WIRE 6	White	22in.	TP-3	2	(CABLE 1) WIRE 4	LOCK +
5	(CABLE 1) WIRE 7	White	22in.	TP-3	7	(CABLE 1) WIRE 16	LOCK -
17	(CABLE 1) WIRE 8	White	22in.	TP-4	1	(CABLE 1) WIRE 5	SIG +
					6	(CABLE 1) WIRE 17	SIG -
CONNECTOR J3 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)					CONNECTOR J3 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)		
9,1,SHELL	SHIELD (BRAID)		23in.		N/C (not connected)	SHIELD (BRAID)	SHIELD
10	(CABLE 2) WIRE 9	White	23in.	SINGLE WIRE	5	(CABLE 2) WIRE 9	SHIELD
22	(CABLE 2) WIRE 10	White	23in.	TP-5	4	(CABLE 2) WIRE 10	POWER -
11	(CABLE 2) WIRE 11	White	23in.	TP-5	9	(CABLE 2) WIRE 22	POWER - RTN
23	(CABLE 2) WIRE 12	White	23in.	TP-6	3	(CABLE 2) WIRE 11	POWER +
12	(CABLE 2) WIRE 13	White	23in.	TP-7	8	(CABLE 2) WIRE 23	POWER + RTN
24	(CABLE 2) WIRE 14	White	23in.	TP-7	2	(CABLE 2) WIRE 12	LOCK+
13	(CABLE 2) WIRE 15	White	23in.	TP-8	7	(CABLE 2) WIRE 24	LOCK -
25	(CABLE 2) WIRE 16	White	23in.	TP-8	1	(CABLE 2) WIRE 13	SIG +
					6	(CABLE 2) WIRE 25	SIG -

NEEDS TO BE UPDATED WITH CORRECT WIRING INFORMATION

V-DB25 M/S-22,23-2_DB9 F/X	
STANDARD USE FOR THIS CABLE	
SUBSYSTEM	STANDARD USE
ISC	TABLE TO DCPD IN VAC PREAMP

DIMENSIONS ARE IN TOLERANCES: .XX ± .XXX ± ANGULAR ± °		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) 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.		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME CUSTOM CABLE SPECIFICATION V25W	
MATERIAL Material <not specified>		FINISH μinch		NEXT ASSY		DESIGNER R.ABBOTT SEP/21/2011 DRAFTER E.BROWN SEP/21/2011 CHECKER APPROVAL	
SCALE: 2:1		PROJECTION:		SHEET 1 OF 1		DWG. NO. D1000233-V2 REV. V2	

D1000233-V2.cable V2REV1 PART PDM REV1 DRAWING PDM REV1