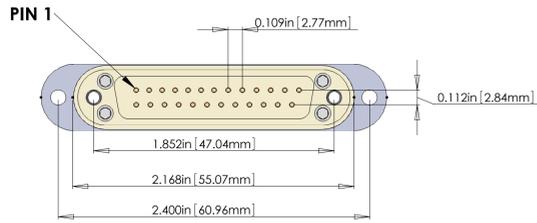
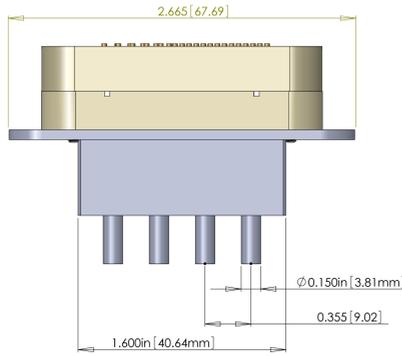
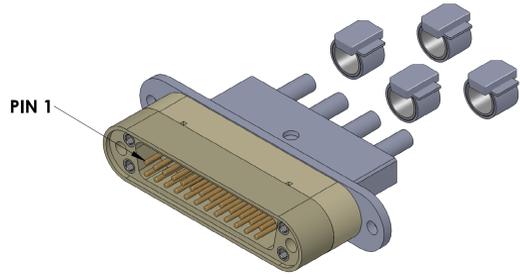
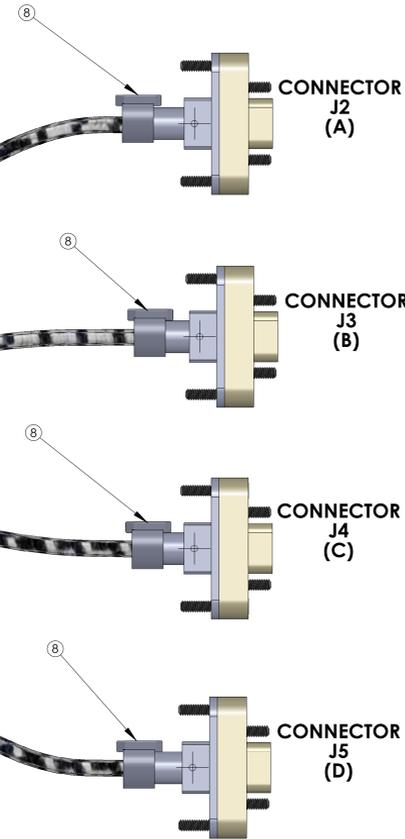
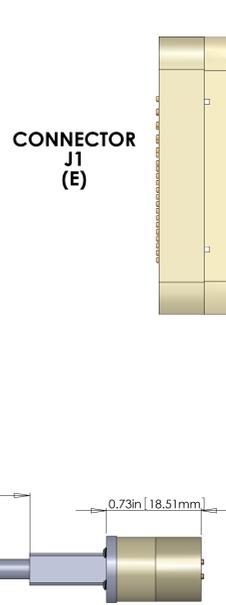


NOTES CONTINUED:
 ③ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 27 HIGH CHARACTERS. EXAMPLE: DXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.



V25Z CABLE ASSEMBLY CIRCUIT SUMMARY				
V-DB25 M/1-60-4 μD9 F/5				
FROM				
CONNECTOR J1 - 25 PIN MALE SUBMINI_D CONNECTOR (PEEK)				
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR
E1	(CABLE 1) SHIELD			(CABLE 1) SHIELD
E1	(CABLE 1) WIRE 1	White	60 in.	SINGLE WIRE
E14	(CABLE 1) WIRE 14	White	60 in.	TP-1A
E2	(CABLE 1) WIRE 2	White	60 in.	TP-1A
E15	(CABLE 1) WIRE 15	White	60 in.	TP-2A
E3	(CABLE 1) WIRE 3	White	60 in.	TP-2A
E16	(CABLE 1) WIRE 16	White	60 in.	TP-3A
E4	(CABLE 1) WIRE 4	White	60 in.	TP-3A
E1	(CABLE 2) SHIELD			(CABLE 2) SHIELD
E17	(CABLE 2) WIRE 17	White	60 in.	TP-1B
E5	(CABLE 2) WIRE 5	White	60 in.	TP-1B
E18	(CABLE 2) WIRE 18	White	60 in.	TP-2B
E6	(CABLE 2) WIRE 6	White	60 in.	TP-2B
E19	(CABLE 2) WIRE 19	White	60 in.	TP-3B
E7	(CABLE 2) WIRE 7	White	60 in.	TP-3B
E1	(CABLE 3) SHIELD			(CABLE 3) SHIELD
E20	(CABLE 3) WIRE 20	White	60 in.	TP-1C
E8	(CABLE 3) WIRE 8	White	60 in.	TP-1C
E21	(CABLE 3) WIRE 21	White	60 in.	TP-2C
E9	(CABLE 3) WIRE 9	White	60 in.	TP-2C
E22	(CABLE 3) WIRE 22	White	60 in.	TP-3C
E10	(CABLE 3) WIRE 10	White	60 in.	TP-3C
E1	(CABLE 4) SHIELD			(CABLE 4) SHIELD
E23	(CABLE 4) WIRE 23	White	60 in.	TP-1D
E11	(CABLE 4) WIRE 11	White	60 in.	TP-1D
E24	(CABLE 4) WIRE 24	White	60 in.	TP-2D
E12	(CABLE 4) WIRE 12	White	60 in.	TP-2D
E25	(CABLE 4) WIRE 25	White	60 in.	TP-3D
E13	(CABLE 4) WIRE 13	White	60 in.	TP-3D



V25Z CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J2 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 1) SHIELD	SHIELD
A5	(CABLE 1) WIRE 1	SHIELD
A1	(CABLE 1) WIRE 14	TOP1
A6	(CABLE 1) WIRE 2	TOP1
A2	(CABLE 1) WIRE 15	RIGHT
A7	(CABLE 1) WIRE 3	RIGHT
A4	(CABLE 1) WIRE 16	UL
A9	(CABLE 1) WIRE 4	UL

V25Z CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J3 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 2) SHIELD	SHIELD
B5	(CABLE 2) WIRE 1	SHIELD
B1	(CABLE 2) WIRE 17	MO FACE 2
B6	(CABLE 2) WIRE 5	MO FACE 2
B2	(CABLE 2) WIRE 18	MO SIDE
B7	(CABLE 2) WIRE 6	MO SIDE
B4	(CABLE 2) WIRE 19	RO LEFT
B9	(CABLE 2) WIRE 7	RO LEFT

V25Z CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J4 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 3) SHIELD	SHIELD
C5	(CABLE 3) WIRE 1	SHIELD
C1	(CABLE 3) WIRE 20	MO FACE
C6	(CABLE 3) WIRE 8	MO FACE
C2	(CABLE 3) WIRE 21	RO FACE 1
C7	(CABLE 3) WIRE 9	RO FACE 1
C4	(CABLE 3) WIRE 22	RO RIGHT
C9	(CABLE 3) WIRE 10	RO RIGHT

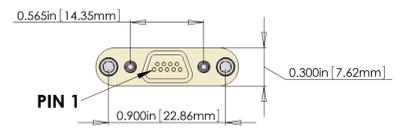
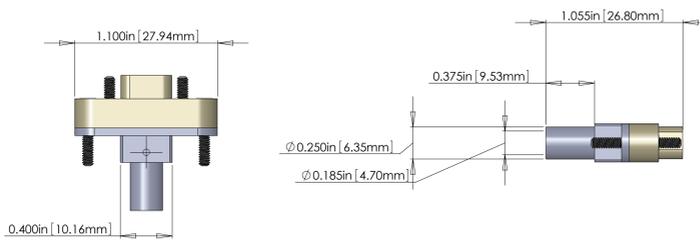
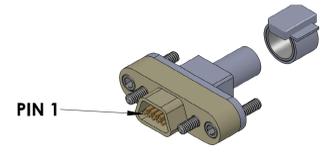
V25Z CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J5 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 4) SHIELD	SHIELD
D5	(CABLE 4) WIRE 1	SHIELD
D1	(CABLE 4) WIRE 23	MO LEFT
D6	(CABLE 4) WIRE 11	MO LEFT
D2	(CABLE 4) WIRE 24	RO FACE 2
D7	(CABLE 4) WIRE 12	RO FACE 2
D4	(CABLE 4) WIRE 25	RO SIDE
D9	(CABLE 4) WIRE 13	RO SIDE

BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH *
①	CUSTOM DB25 MALE	DB25 MALE CONNECTOR (J1) FOR UHV PEEK	1	
②	CUSTOM DB25 BACKSHELL	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
③	TICOR #TS0094 WITH FLYING LEADS	μD9 RIGHT ANGLE FEMALE CONNECTOR (J2) FOR UHV (PEEK)	4	
④		μD9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4	
⑤	C1	7 COND. (3 TW PAIR + 1 WIRE + SHIELD) CABLE WITH (6) COPPER BRAID (SHIELD) AND (7) PEEK OVERBRAID	4	60in.
⑥	COPPER BRAID	CONTINENTAL CORDAGE PART # 24x3x40BC	4	60in.
⑦	PEEK BRAID	PART #4759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	4	60in.
⑧	GLENNAIR 600-052	GLENNAIR 600-052 STANDARD BRAID CLAMP	8	

* NOTE: THE LENGTH IS MEASURED FROM PIN TIP (25 PIN) TO PIN TIP (9 PIN) OF THE CABLE. 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: a. CONNECTOR SHELL - PEEK OR METALIZED 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

- 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)



DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
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		CUSTOM CABLE SPECIFICATION V25Z	
ANGULAR ± °		MATERIAL: Material <not specified>		FINISH: μinch		NEXT ASSY:	
				SYSTEM: ISC		DESIGNER: E.ABROTT DRAFTER: E.BROWN CHECKER: APPROVAL:	
				SUB-SYSTEM: ISC		SIZE DWG. NO.: E D1000236- v2	
				SCALE: 2:1		REV. SHEET 1 OF 1	