

7

8

D

		BILL OF MATERIALS		
ITEM NO.	PART NUMBER	DESCRIPTION		
1		DB25 MALE CONNECTOR W/ EARS (J1) FOR UHV (PEEK)		
2	TS0149-25C020BS2-188F OR EQUIVALENT **	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS) WITH DUAL Ø0.100" i.d. F		
3	TICOR # TS0094	DB9 FEMALE CONNECTOR (J2, J3) FOR UHV (PEEK)		
4	OR EQUIVALENT	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS) WITH Ø0.185" i.d. POR		
5	C1	9 COND. (4 TWISTED PAIR + 1 WIRE + SHIELD) CABLE WITH 6 COPPER BRAID (SHIELD) AND 7 PEEK OVERBRAID		
6	PART # 24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART # 24x3x40BC		
Ī	PART #6759	PEEK BRAID PART #6759 - MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT		
8	GLENAIR # 600-052 or BAND-IT # A10086 (BAG OF 100 = # A10089)	GLENAIR #600-052 STANDARD BRAID CLAMP or BAND-IT PART # A10086 (0.240" WIDE) ("BAG OF 100" #A10089)		
9	HELICOIL # 1185-04EN336	#4-40 Nitronic 60® HELICOIL 0.336" LENGTH		

* NOTE: USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS. ** NOTE: SEE THE "TICOR CONNECTOR PART NUMBER BUILDER" DCC#D1000219 FOR DETAILS ON THIS PART NUMBER.

ELECTRICAL NOTES: (UNLESS OTHERWISE SPECIFIED)

A. MATERIAL: a. CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY 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: STAINLESS STEEL, PASSIVATED. e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO.

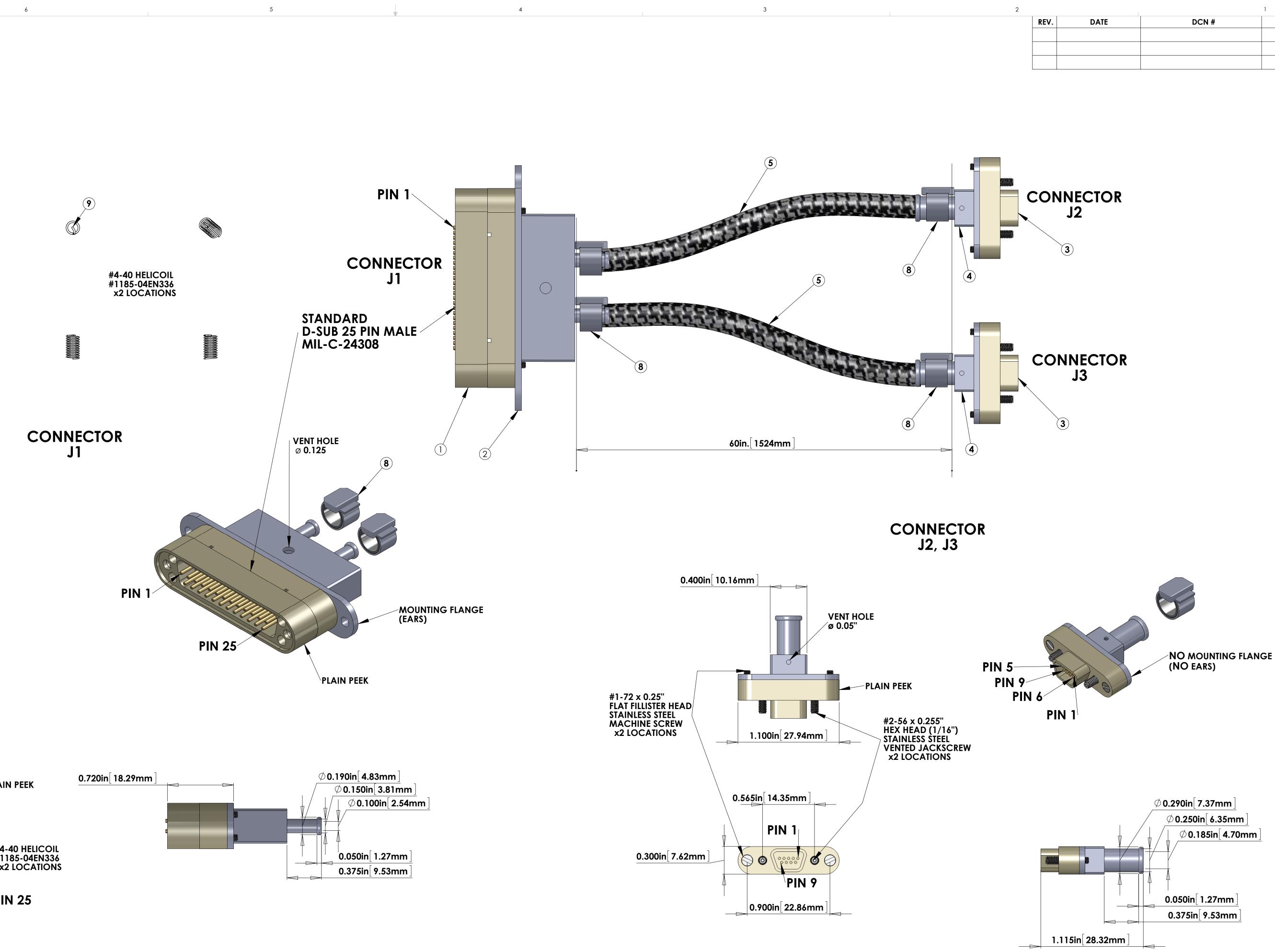
B. CABLE 9 COND. 28 AWG, (40 STRD 44 AWG) WITH PFA INSULATION. 4 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE.

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.

8

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



QTY. LENGTH * 1 . PORTS 1 2 ORT 2 2 60in. 2 2 2

6

/NEEDS TO BE CONFIRMED WITH CORRECT WIRING INFORMATION

	¥						
	V25Y CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 M/1-60-2_µD9 F/5						
		FROM				το	
CONI	NECTOR J1 - 25PIN S	UBMINI_D MA	ALE CONNEC	TOR (PEEK)	CONNECTOR J2 - 9 PIN MICRO_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
	(CABLE 1) WIRE 1	White	22in.	SINGLE WIRE	5	(CABLE 1) WIRE 1	SHIELD
2	(CABLE 1) WIRE 2	White	22in.	TP-1	4	(CABLE 1) WIRE 2	POWER -
14	(CABLE 1) WIRE 14	White	22in.	TP-1	9	(CABLE 1) WIRE 14	POWER - RTN
3	(CABLE 1) WIRE 3	White	22in.	TP-2	3	(CABLE 1) WIRE 3	POWER +
15	(CABLE 1) WIRE 15	White	22in.	TP-2	8	(CABLE 1) WIRE 15	POWER + RTN
4	(CABLE 1) WIRE 4	White	22in.	TP-3	2	(CABLE 1) WIRE 4	LOCK +
16	(CABLE 1) WIRE 16	White	22in.	TP-3	7	(CABLE 1) WIRE 16	LOCK -
5	(CABLE 1) WIRE 5	White	22in.	TP-4	1	(CABLE 1) WIRE 5	SIG +
17	(CABLE 1) WIRE 17	White	22in.	TP-4	6	(CABLE 1) WIRE 17	SIG -
					CONNECTOR J3 - 9	PIN MICRO_D FEMA	ALE CONNECTOR (PEEK)
					PIN	WIRE NAME	SIGNAL
9,1,SHELL	Shield (Braid)		23in.		N/C (not connected)	. ,	SHIELD
9,1,SHELL	(CABLE 2) WIRE 9	White	23in.	SINGLE WIRE	5	(CABLE 2) WIRE 9	SHIELD
10	(CABLE 2) WIRE 10	White	23in.	TP-5	4	(CABLE 2) WIRE 10	POWER -
22	(CABLE 2) WIRE 22	White	23in.	TP-5	9	(CABLE 2) WIRE 22	POWER - RTN
11	(CABLE 2) WIRE 11	White	23in.	TP-6	3	(CABLE 2) WIRE 11	POWER +
23	(CABLE 2) WIRE 23	White	23in.	TP-6	8	(CABLE 2) WIRE 23	POWER + RTN
12	(CABLE 2) WIRE 12	White	23in.	TP-7	2	(CABLE 2) WIRE 12	LOCK+
24	(CABLE 2) WIRE 24	White	23in.	TP-7	7	(CABLE 2) WIRE 24	LOCK -
13	(CABLE 2) WIRE 13	White	23in.	TP-8	1	(CABLE 2) WIRE 13	SIG +
25	(CABLE 2) WIRE 25	White	23in.	TP-8	6	(CABLE 2) WIRE 25	SIG -

DIMENSIONS ARE IN TOLERANCES: .XX ± .XXX ± ANGULAR ± °

5

4

TEST LIST		TEST LIST		
FROM	то	FROM	то	
J1	J2	J1	J3	
PIN	PIN	PIN	PIN	
J1 - 1,9,SHELL	J2-N/C	J1 - 1,9,SHELL	J3- N/C	
J1 - 1,9,SHELL	J2-5	J1 - 1,9,SHELL	J3- 5	
J1 - 2	J2- 4	J1-10	J3- 4	
J1 - 14	J2- 9	J1-22	J3- 9	
J1 - 3	J2- 3	J1-11	J3- 3	
J1 - 15	J2-8	J1-23	J3- 8	
J1 - 4	J2- 2	J1-12	J3- 2	
J1 - 16	J2- 7	J1-24	J3- 7	
J1 - 5	J2- 1	J1-13	J3- 1	
J1 - 17	J2- 6	J1- 25	J3- 6	

SUS TRIPLES	SUSPE
	V-DB2
S.	TANDA
SUBSYSTEM	
SUS	

CALIFORNIA INSTITUTE OF TE MASSACHUSETTS INSTITUTE (PART NAM	
	SUB-SYSTEM	DESIGNER	J.
	SUS	DRAFTER	E.
		CHECKER	
		APPROVAL	

コノハト

LIGO

NEXT ASSY

µinch

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 INTERPRET DRAWING PER ASME Y14.5-1994. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS. DO NOT SCALE FROM DRAWING. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.
MATERIAL FINISH

1	1		
E	DCN #	DRAWING TREE #	

PENSION - TOP CUSTOM CABLE B25 M/1-60-2_µD9 F/5 DARD USE FOR THIS CABLE STANDARD USE

B

TRIPLE SUSPENSION - TOP

