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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	156in +
4	GLENAIR # 600-052 or BAND-IT # A10086	GLENAIR # 600-052 STANDARD BRAID CLAMP or BAND-IT PART # A10086 (0.240" WIDE) ("BAG OF 100" # A10089)	2	

\* 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)

ВA

- 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

CABLE 25 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE 2. 12 TWISTED PAIRS ( 4 TO 5 TWISTS PER INCH ) + 1 WIRE OVERALL 40AWG COPPER BRAID 50% COVÉRAGE - SUPPLIED BY LIGO **OVERALL PEEK BRAID MIN. 50% COVERAGE** OVERALL CABLE O.D. WILL BE 0.240 IN.

CONNECTORS WILL BE SUPPLIED WITH HARDWARE (LENGTH OF SCREWS AS SHOWN ARE APPROXIMATE 3. SCREWS SHOULD BE THE PROPER LENGTH FOR PROPER MATING)

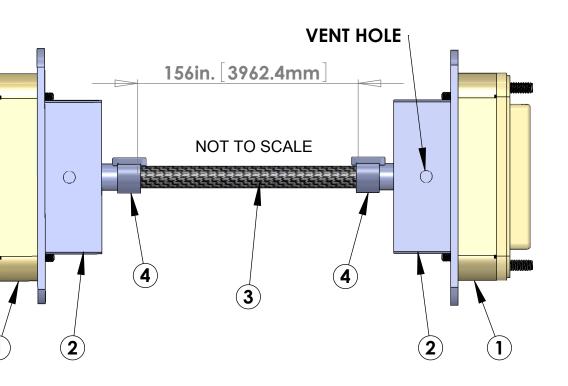
0.109in [ 2.77mm ] 0.619in [ 15.72mm ]	СА
PIN 1       0.112in [2.84mm]       0.243in. [6.17mm]         0.000       0.243in. [6.17mm]       0.243in. [5.72mm]	
n] 0.245in [6.22mm] 1	
0.375in [9.53mm]	

V25D CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 F/1-156-DB25 F/1					
CABLE NAME	COND WIRE ID	TWISTED PAIR	LENGTH	FROM	то
V25D	25 COND. CABLE	(12 TOTAL)	156 in.	Conn. J1	Conn
C1	SHIELD (COPPER BRAID)		156 in.	PIN 1, SHIELD (N/C SHELL)	PIN SHIEL (N/C SH
	W1	SINGLE WIRE	156 in.	N/C	N/C
	W2	TP-1	156 in.	PIN 2	PIN
	W14	16-1	156 in.	PIN 14	PIN <sup>2</sup>
	W3	TP-2	156 in.	PIN 3	PIN
	W15	11 -2	156 in.	PIN 15	PIN <sup>*</sup>
	W4	TP-3	156 in.	PIN 4	PIN
	W16	II -0	156 in.	PIN 16	PIN <sup>(</sup>
	W5	TP-4	<u>156 in.</u>	PIN 5	PIN
	W17	11 -	<u>156 in.</u>	PIN 17	PIN
	W6	TP-5	156 in.	PIN 6	PIN
	W18		<u>156 in.</u>	PIN 18	PIN <sup>(</sup>
	W7	TP-6	<u>156 in.</u>	PIN 7	PIN
	W19		<u>156 in.</u>	PIN 19	PIN
	W8	TP-7	156 in.	PIN 8	PIN
	W20		156 in.	PIN 20	PIN 2
	W9 W21	TP-8	<u>156 in.</u>	PIN 9 PIN 21	PIN PIN 2
	W10		<u>156 in.</u> 156 in.	PIN 21 PIN 10	<b>PIN</b> 2
	W10	TP-9	156 in.	PIN 10	PIN 2
	W11		156 in.	PIN 11	PIN
	W23	TP-10	156 in.	PIN 23	PIN 2
	W12		156 in.	PIN 12	PIN 2
	W12 W24	TP-11	156 in.	PIN 24	PIN 2
	W13		156 in.	PIN 13	PIN
	W25	TP-12	156 in.	PIN 25	PIN 2

SUBSYSTEM ISC ISC

		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		2/////	
DIMENSIONS ARE IN		1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACH ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL		LIGO	CALIFORNIA INSTITUTE OF TECHNO MASSACHUSETTS INSTITUTE OF TEC
TOLERANCES: .XX ± .XXX ±		<ul> <li>3. DO NOT SCALE FROM DRAWING.</li> <li>4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLO</li> </ul>	, FULLY WATER	SYSTEM	SUB-
		MATERIAL	FINISH	NEXT ASSY	
ANGULAR ± °		Material <not specified=""></not>	µincł	า	
	5	A 4		•	3

	2		1			
REV.	DATE	DCN #	DRAWING TREE #			



CONNECTOR **J2** 

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V-DB25 F/1-156-DB25 F/1					
	STANDARD USE FOR THIS CABLE				
	AIR/VAC	STANDARD USE			
	IN-VAC	TIP TILT OSEMS (OPTICAL SENSOR ELECTROMAGNETIC MOTOR)			
	IN-VAC	MC2 (TOP) MC3 (TOP)			

