

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,J4,J5) FOR UHV (PEEK)	4	
4	CUSTOM BACKSHELL	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4	
5	C1	9 COND. (1,2 or 3 TW PAIR+ SHIELD)CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	4	60"
6	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)	8	

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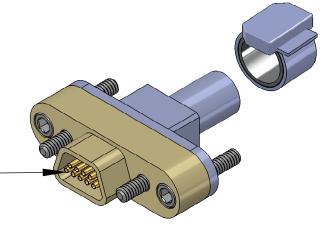
NOTES: (UNLESS OTHERWISE SPECIFIED)

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- 1. MATERIAL: a. CONNECTOR SHELL PEEK 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 CARBON LOADED

CABLE 2,4 or 6 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE 1,2 or 3 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) OVERALL 40AWG SILVER PLATED COPPER BRAID 90% COVERAGE OVERALL PEEK BRAID MIN. 50% COVERAGE OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

	V25R CABLE ASSE V-DB25 M	/1-60-4_µC		
		FROM		
	CONNECTOR J1 - 25 PIN M	ALE SUBMINI_D	CONNECTO	R (PEEK)
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR
1	(CABLE 1 SHIELD)			(CABLE 1 SHIELD)
1	(CABLE 1) WIRE 1	White		SINGLE WIRE
14	(CABLE 1) WIRE 14	White		TP-1
2	(CABLE 1) WIRE 2	White		TP-1
15	(CABLE 1) WIRE 15	White		TP-2
3	(CABLE 1) WIRE 3	White		TP-2
16	(CABLE 1) WIRE 16	White		TP-3
4	(CABLE 1) WIRE 4	White		TP-3
1	(CABLE 2 SHIELD)			(CABLE 2 SHIELD)
17	(CABLE 2) WIRE 17	White		TP-4
5	(CABLE 2) WIRE 5	White		TP-4
18	(CABLE 2) WIRE 18	White		TP-5
6	(CABLE 2) WIRE 6	White		TP-5
19	(CABLE 2) WIRE 19	White		TP-6
7	(CABLE 2) WIRE 7	White		TP-6
1	(CABLE 3 SHIELD)			(CABLE 3 SHIELD)
20	(CABLE 3) WIRE 20	White		TP-7
8	(CABLE 3) WIRE 8	White		TP-7
21	(CABLE 3) WIRE 21	White		TP-8
9	(CABLE 3) WIRE 9	White		TP-8
22	(CABLE 3) WIRE 22	White		TP-9
10	(CABLE 3) WIRE 10	White		TP-9
1	(CABLE 4 SHIELD)			(CABLE 4 SHIELD)
23	(CABLE 4) WIRE 23	White		TP-10
11	(CABLE 4) WIRE 11	White		TP-10
24	(CABLE 4) WIRE 24	White		TP-11
12	(CABLE 4) WIRE 12	White		TP-11
25	(CABLE 4) WIRE 25	White		TP-12
13	(CABLE 4) WIRE 13	White		TP-12
		1	1	



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PIN 1

6

PIN 1

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

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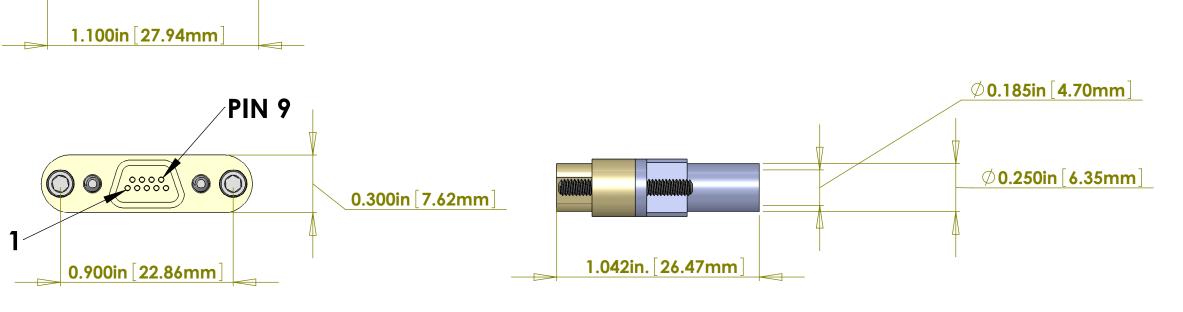
V25R CABLE ASSEMBLY CIRCUIT SUMMARY						
	ΤΟ					
CON	NECTOR J2 - 9 PIN FEMALE	MICRO_D CONNECTOR (PEEK)				
Pin	Wire Name	SIGNAL				
5	(CABLE 1) SHIELD	SHIELD				
5	(CABLE 1) WIRE 1	SHIELD				
1	(CABLE 1) WIRE 14	PD-K				
6	(CABLE 1) WIRE 2	PD-A				
2	(CABLE 1) WIRE 15	LED-A				
7	(CABLE 1) WIRE 3	LED-K				
4	(CABLE 1) WIRE 16	FN COIL				
9	(CABLE 1) WIRE 4	ST COIL				

V25	V25R CABLE ASSEMBLY CIRCUIT SUMMARY					
	ΤΟ					
CON	NECTOR J3 - 9 PIN FEMALE M	ICRO_D CONNECTOR (PEEK)				
Pin	Wire Name	SIGNAL				
5	(CABLE 2) SHIELD	SHIELD				
5	(CABLE 2) WIRE 1	SHIELD				
1	(CABLE 2) WIRE 17	PD-K				
6	(CABLE 2) WIRE 5	PD-A				
2	(CABLE 2) WIRE 18	LED-A				
7	(CABLE 2) WIRE 6	LED-K				
4	(CABLE 2) WIRE 19	FN COIL				
9	(CABLE 2) WIRE 7	ST COIL				

V25R CABLE ASSEMBLY CIRCUIT SUMMARY TO				
Wire Name	SIGNAL			
(CABLE 3) SHIELD	SHIELD			
(CABLE 3) WIRE 1	SHIELD			
(CABLE 3) WIRE 20	PD-K			
(CABLE 3) WIRE 8	PD-A			
(CABLE 3) WIRE 21	LED-A			
(CABLE 3) WIRE 9	LED-K			
(CABLE 3) WIRE 22	FN COIL			
(CABLE 3) WIRE 10	ST COIL			
	TC ECTOR J4 - 9 PIN FEMALE Wire Name (CABLE 3) SHIELD (CABLE 3) WIRE 1 (CABLE 3) WIRE 20 (CABLE 3) WIRE 8 (CABLE 3) WIRE 8 (CABLE 3) WIRE 21 (CABLE 3) WIRE 22			

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V25R CABLE ASSEMBLY CIRCUIT SUMMARY					
ΤΟ					
CONN	IECTOR J5 - 9 PIN FEMALE MI	CRO_D CONNECTOR (PEEK)			
Pin	Wire Name	SIGNAL			
5	(CABLE 4) SHIELD	SHIELD			
5	(CABLE 4) WIRE 1	SHIELD			
1	(CABLE 4) WIRE 23	PD-K			
6	(CABLE 4) WIRE 11	PD-A			
2	(CABLE 4) WIRE 24	LED-A			
7	(CABLE 4) WIRE 12	LED-K			
4	(CABLE 4) WIRE 25	FN COIL			
9	(CABLE 4) WIRE 13	ST COIL			



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					25 M/1-6 ARD USE FO		-			
			UBSYSTE				NDARD USE			
			SUS	IN-VAC	2		MC1, MC2			A
LIGO	CALIFORNIA INSTITUTE OF TEC MASSACHUSETTS INSTITUTE OF		PART NAME			E SPE		ON V	25R-6	0
SYSTEM		SUB-SYSTEM	DESIGNER	J. HEEFNER	OCT/06/2011 SIZE	DWG. NO).			REV.
		SUS	DRAFTER	E. BROWN	ОСТ/06/2011 Е	Г	01000	220		v3
NEXT ASSY			CHECKER					200		۷J
			APPROVAL		SCAL	E: 2:1	PROJECTION:	$\bigoplus \square$	SHEET 1	I OF 1

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 INTERPRET DRAWING PER ASME Y14.5-1994. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED PAEDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS. DO NOT SCALE FROM DRAWING. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY AND FREE OF SULFUR, SILICONE, AND CHLORINE. 		S
MATERIAL	FINISH	N
Material <not specified=""></not>	µinch	

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NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

		1		
DATE	DCN #	DRAWING TREE #		