1.509in [38.33mm] /#4-40 UNC 2 places VENT HOLE 40in [1016mm] NOT TO SCALE CONNECTOR CONNECTOR #2-56 UNC 4 places-6 **GLENAIR** 0.275in o.d. [6.73mm] CLAMPING BANDS 1.6in [40.64mm]

ϕ 0.125in[3.18mm]	➡	
0.309in [7.85mm]	0.375in [9.53mm]	. 1
0.10	0.525in MAX [13.34	<u>mm]</u>
(3)		
6	0.112in [2.84mm]	
1.852in [47.03mm]		
2.165in [54.99mm]	0.225in i.d. [5.76mm]\	
2.4in [60.96mm] 2.665in [67.69mm]		
0.4071-[40.40.41]		
\0.497in [12.62mm]	/PEEK OVERBRAID /PLATED COPPER	
/	/ BRAID 1 CONDUCTOR (SHIELD)	
3		
	25 CONDUCTOR 28 AWG 12 TWISTED PAIR + 1 WIRE	
***************************************	1444444444	

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 BACK SHELL FOR UHV (STAINLESS)	2	
3	C1	25 COND. (12 TW PAIR + 1 WIRE + SHIELD) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	1	40in +
4	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP	2	
5		#4-40 UNC ALLEN HEAD MACHINE SCREW	2	0.375 in
6		#2-56 ALLEN HEAD MAXHINE SCREW	4	0.5 in

NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATERIAL:
 a. CONNECTOR SHELL PEEK VICTREX GRADE TDS-450G.
 b. BACKSHELL STAINLESS STEEL WITH VENT HOLE.
 c. CONTACTS BERYLLIUM COPPER ALLOW C17300
 0.000050 MIN. GOLD OVER NICKEL
 d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
 e. PEEK BRAID PEEK VICTREX GRADE TDS-450CA30 CARBON FIBRE LOADED
- CABLE 25 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE 12 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE OVERALL 40AWG SILVER PLATED COPPER BRAID 90% COVERAGE OVERALL PEEK BRAID MIN. 50% COVERAGE OVERALL CABLE O.D. WILL BE 0.240 IN.

V25A-40 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 F/1-40-DB25 F/S

CABLE NAME	COND WIRE ID	TWISTED PAIR	LENGTH *	FROM	то
V25A-40	25 COND. CABLE	(12 TOTAL)	40 in	Conn. J1	Conn. J2
	SHIELD COPPER BRAID		40 in	PIN 1	SHELL
	w1		40 in	PIN 1, SHIELD	PIN 1
	w2	TD 4	40 in	PIN 2	PIN 2
	w14	TP-1	40 in	PIN 14	PIN 14
	w3	TD 0	40 in	PIN 3	PIN 3
	w15	TP-2	40 in	PIN 15	PIN 15
	w4	TD 0	40 in	PIN 4	PIN 4
	w16	TP-3	40 in	PIN 16	PIN 16
	w5	TD 4	40 in	PIN 5	PIN 5
	w17	TP-4	40 in	PIN 17	PIN 17
	w6		40 in	PIN 6	PIN 6
	w18	TP-5	40 in	PIN 18	PIN 18
	w7	TDO	40 in	PIN 7	PIN 7
	w19	TP-6	40 in	PIN 19	PIN 19
	w8	TP-7	40 in	PIN 8	PIN 8
	w20	1P-7	40 in	PIN 20	PIN 20
	w9	TD 0	40 in	PIN 9	PIN 9
	w21	TP-8	40 in	PIN 21	PIN 21
	w10	TD 0	40 in	PIN 10	PIN 10
	w22	TP-9	40 in	PIN 22	PIN 22
	w11	TD 40	40 in	PIN 11	PIN 11
	w23	TP-10	40 in	PIN 23	PIN 23
	w12		40 in	PIN 12	PIN 12
	w24	TP-11	40 in	PIN 24	PIN 24
	w13	TD 40	40 in	PIN 13	PIN 13
	w25	TP-12	40 in	PIN 25	PIN 25

* The length shown in this list is the length of the cable between the two connectors. Add additional length as necessary for the internal wiring of the connectors and strip length.

								UNLESS OTHERWISE SPECIFIED		NAME	DATE	LIGO	California Institute o	of Technology		
									DRAWN	E.Brown	FEB/01/10	LIGO	Massachusetts Institute of	of Technology		
								TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ±	CHECKED			LIC	O-D1000220-	v.1		
								TWO PLACE DECIMAL ±	ENG APPR.							
								THREE PLACE DECIMAL ±			STOM CABLI					
								MATERIAL	Q.A.			SPI	ECIFICATION			
										COMMENT	NTS:		V25A-40			
DWG. NO.		DESCRIPTION		DWG. NO.	DESCRIPTION	NEXT ASSY	USED ON	FINISH				SIZE DWG. NO.		REV.		
	REFERENCE DRAWINGS APPLICATION				DO NOT SCALE DRAWING				C SCALE:1:1 WEIGHT: SHEET 1 OF 1							