



V25A-120 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB25 F/1-120-DB25 F/S

CABLE NAME	COND.-WIRE ID	TWISTED PAIR	LENGTH *	FROM	TO
V25A-120	25 COND. CABLE	(12 TOTAL)	120 in.	Conn. J1	Conn. J2
	W1	SHIELD	120 in	PIN 1	PIN 1
	W2	TP-1	120 in	PIN 2	PIN 2
	W14		120 in	PIN 14	PIN 14
	W3	TP-2	120 in	PIN 3	PIN 3
	W15		120 in	PIN 15	PIN 15
	W4	TP-3	120 in	PIN 4	PIN 4
	W16		120 in	PIN 16	PIN 16
	W5	TP-4	120 in	PIN 5	PIN 5
	W17		120 in	PIN 17	PIN 17
	W6	TP-5	120 in	PIN 6	PIN 6
	W18		120 in	PIN 18	PIN 18
	W7	TP-6	120 in	PIN 7	PIN 7
	W19		120 in	PIN 19	PIN 19
	W8	TP-7	120 in	PIN 8	PIN 8
	W20		120 in	PIN 20	PIN 20
	W9	TP-8	120 in	PIN 9	PIN 9
	W21		120 in	PIN 21	PIN 21
	W10	TP-9	120 in	PIN 10	PIN 10
	W22		120 in	PIN 22	PIN 22
	W11	TP-10	120 in	PIN 11	PIN 11
	W23		120 in	PIN 23	PIN 23
	W12	TP-11	120 in	PIN 12	PIN 12
	W24		120 in	PIN 24	PIN 24
	W13	TP-12	120 in	PIN 13	PIN 13
	W25		120 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.

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	120in +
④	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP (BAND - IT)	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)

- MATERIAL:
 - CONNECTOR SHELL - PEEK VICTREX 450GL30.
 - BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
 - CONTACTS - BERYLLIUM COPPER ALLOY C17300 0.000050 MIN. GOLD OVER NICKEL
 - HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
 - 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 12 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
 OVERALL CABLE O.D. WILL BE 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)

V-DB25 F/1-120-DB25 F/S

STANDARD USE FOR THIS CABLE

SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	GS-13,L-4C

DRAWN: E. BROWN MAY/5/10		NAME: [] DATE: []		California Institute of Technology Massachusetts Institute of Technology				
CHECKED: B. ABBOTT MAY/5/10		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL THREE PLACE DECIMAL ±						
MFG APPR: []		MATERIAL: --		CUSTOM CABLE SPECIFICATION V25A-120 SIZE: C DWG. NO: LIGO-D1000222- v3 SCALE: 1:1 WEIGHT: SHEET 1 OF 1				
COMMENTS: SEI (SUBSYSTEM)		FINISH: --						
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	NEXT ASSY	USED ON	REFERENCE DRAWINGS	APPLICATION	DO NOT SCALE DRAWING