

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	CUSTOM DB25 MALE TICOR# TS0145-1 INCLUDING TICOR #'S 034-1206-2520 (1ea.), 034-1202-2520 (1ea.), 1185-04CN336 (2ea.), 013-2701-0001 (4ea) and M39029/58-363 (25ea)	DB25 MALE CONNECTOR (J1) FOR UHV - ELECTRO-LESS NICKEL SELECTIVELY METALIZED (PEEK) (COMPLETE CONNECTOR)	1	
(2)	TICOR #040-2725-2502	DB25 CONNECTOR BACKSHELL (TWO PORT) FOR UHV (STAINLESS)	1	
3		QPD FEMALE CONNECTOR (J2,J3) FOR UHV (PEEK)	2	
4	C1	6 COND. CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID INCLUDING 6 28GA. WIRES WITH CZ1105 PFA INSULATION	2	68in., * 80in. *
(5)	PARKER# 4 TIZ .188-SS	1/4" TUBE INSERT 1/4" LENGTH 0.188" o.d.	2	
(6)	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP	4	

* 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)

- 1. MATERIAL: a. J1 CONNECTOR SHELL SELECTIVELY METALIZED OVER 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
- 2. CABLE 6 COND. 28 AWG, (40 STRD 44 AWG) WITH CZ1105 PFA INSULATION
- OVERALL 40AWG COPPER BRAID 90% COVERAGE SUPPLIED BY LIGO OVERALL PEEK BRAID MIN. 50% COVERAGE - SUPPLIED BY LIGO

OVERALL CABLE O.D. WILL BE APPROX. 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)

FROM					TO					
CONNECTOR J1 - 25 PIN SUBMINI_D MALE CONNECTOR SELECTIVELY METALIZED (PEEK)					CONNECTO	PCB CONNECTION				
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR	PIN	WIRE NAME	SIGNAL			
,SHELL	SHIELD (BRAID)		68in.		CONNECTED ONLY TO BRAID CLAMP	SHIELD (BRAID)	SHIELD	N/C		
13	(CABLE 1) WIRE 13	White	68in. *	TD 1	A4	(CABLE 1) WIRE 13	QPD 1 ANODE 4	A4		
	(CABLE 1) WIRE 25	White	68in. *	TP-1	A3	(CABLE 1) WIRE 25	QPD 1 ANODE 3	A3		
	(CABLE 1) WIRE 12	White	68in. *	TD O	A2	(CABLE 1) WIRE 12	QPD 1 ANODE 2	A2		
24	(CABLE 1) WIRE 24	White	68in. *	TP-2	A 1	(CABLE 1) WIRE 24	QPD 1 ANODE 1	A1		
	(CABLE 1) WIRE 11	White	68in. *	TD 0	S	(CABLE 1) WIRE 11	QPD 1 SENSE	S		
23	(CABLE 1) WIRE 23	White	68in. *	TP-3	CAT	(CABLE 1) WIRE 23	QPD 1 CATHODE	CAT		
					CONNECTO	CONNECTOR J3 - QPD FEMALE CONNECTOR (PEEK)		PCB CONNECTION		
					PIN	WIRE NAME	SIGNAL			
,SHELL	SHIELD (BRAID)		80in.		CONNECTED ONLY TO BRAID CLAMP	SHIELD (BRAID)	SHIELD	N/C		
10	(CABLE 2) WIRE 10	White	80in. *	TD 4	A4	(CABLE 2) WIRE 10	QPD 2 ANODE 4	A4		
22	(CABLE 2) WIRE 22	White	80in. *	TP-4	A3	(CABLE 2) WIRE 22	QPD 2 ANODE 3	A3		
9	(CABLE 2) WIRE 9	White	80in. *	TD F	A2	(CABLE 2) WIRE 9	QPD 2 ANODE 2	A2		
	(CABLE 2) WIRE 21	White	80in. *	TP-5	A 1	(CABLE 2) WIRE 21	QPD 2 ANODE 1	A1		
	(CABLE 2) WIRE 8	White	80in. *	TD /	S	(CABLE 2) WIRE 8	QPD 2 SENSE	S		
20	(CABLE 2) WIRE 20	White	80in. *	TP-6	CAT	(CABLE 2) WIRE 20	QPD 2 CATHODE	CAT		
N 14,2,1	5,3,16,4,17,5,18,6,19	,7 N/C (NO	T CONNECTED)							
JSE WHA	ATEVER LENGTH IS NE	CESSARY FO	OR THE INTERNAL	WIRING OF						
THE CO	NNECTORS AND STRII	P LENGTH TO	ACHIEVE THE C	ORRECT						

V-DB2	25 M/\$1-68,80-2_QP	Ď
STANDA	ARD USE FOR THIS CA	ABLE
SUBSYSTEM	AIR/VAC	STANDARD USE
ISC	IN-VAC	QPD'S
		FOR TRANSMO

DRAWING TREE #

EXPLODED

DCN#

SEE DRAWNING

FOR MOUNTING

SANDWICHED

VIEW

1.200in [30.48mm]

0.250in [6.35mm]

DCC#-LIGO-D1002106

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	ZIII CALIFORNIA INISTITUTE OF TECHNICIOSY	PART NAME	CUSTOM	A RI E SDECIEIC A TION			
DIMENSIONS ARE IN INCHES	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS.	PARTS. ROUND ALL	LIGO MASSACHUSE	NIA INSTITUTE OF TECHNOLOGY HUSETTS INSTITUTE OF TECHNOLOGY			CUSTOM CABLE SPECIFICATION V25T-68-80	
TOLERANCES:	3. DO NOT SCALE FROM DRAWING.	SYSTEM SUB-SYSTEM	DESIGNER	R.ABBOTT APR/18/201	1 SIZE DWG. NO.	REV		
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULL AND FREE OF SULFUR, SILICONE, AND CHLORINE.	Y WATER SOLUBLE		ISC	DRAFTER	E.BROWN ARR/18/201	E D1101624	
	MATERIAL	FINISH	NEXT ASSY	·	CHECKER		T- DIIOIOZ-	■ ■
ANGULAR±°	Material <not specified=""></not>	uinch	1		APPROVAL		SCALE: 2:1 PROJECTION:	SHEET 1 OF 1