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INTERNAL SERVICE LOOPS + 6in. FOR PIGTAILS.

ITEM NO. PART NUMBER		DESCRIPTION		
1		CUSTOM DB25 MALE CONNECTOR (J1) FOR UHV (GOLD METALIZED PEE		
2	(TS0149-25CG20BS2-100F) OR EQUIVALENT **	CUSTOM DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS) WITH DUAL Ø0.100		
3	ITEM 2,6,(16 or 17) FROM DCC#-LIGO-D1002106	QPD FEMALE CONNECTOR (J2,J3) FOR UHV (PEEK)		
4	C1	6 COND. CABLE WITH 5 COPPER BRAID (SHIELD) AND 6 PEEK OVERBRAID IN 6 28GA. WIRES WITH PFA INSULATION (CZ1105)		
5	COPPER BRAID CONTINENTAL PART #24x3x40BC	CONTINENTAL CORDAGE PART # 24x3x40BC		
٦	PEEK BRAID PART #6759	PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT		
7	PARKER# 4 TIZ .188-SS	1/4" TUBE INSERT 1/4" LENGTH 0.188" o.d.		
8	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)		
9	GLENAIR # 600-057 or BAND-IT # A31186	GLENAIR # 600-057 STANDARD BRAID CLAMP or BAND-IT PART # A31186 (0.120" WIDE) ("BAG OF 100" # A31189)		
10	HELICOIL #1185-04EN336	#4-40 Nitronic 60® HELICOIL 0.336" LENGTH		

NOIE: USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS. ** NOTE: SEE THE "TICOR CONNECTOR PART NUMBER BUILDER" DCC#D1000219 FOR DETAILS ON THIS PART NUMBER.

NOTES: (UNLESS OTHERWISE SPECIFIED)

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A. MATERIAL: a. J1 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30. **b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.** c. CONTACTS - BERYLLIUM COPPER ALLOY C17300,

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- 0.000050 MIN. GOLD OVER NICKEL. d. HARDWARE: STAINLESS STEEL, PASSIVATED.
- e. PEEK BRAID PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED SUPPLIED BY LIGO.

B. CABLE 6 COND. 28 AWG, (65 STRD 46 AWG) WITH PFA INSULATION COONER WIRE # CZ1105. OVERALL 40AWG COPPER BRAID 90% COVÉRAGE - SUPPLIED BY LIGO.

OVERALL PEEK BRAID MIN. 50% COVERAGE - SUPPLIED BY LIGO. OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

C. CONNECTORS WILL BE SUPPLIED WITH HARDWARE SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.

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

4

40in.*

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2

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FROM			то					
CONNECTOR J1 - 25 PIN SUBMINI_D MALE CONNECTOR SELECTIVELY METALIZED (PEEK)			CONNECTOR J2 - QPD FEMALE CONNECTOR (PEEK)			PCB CONNECTION		
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR	PIN	WIRE NAME	SIGNAL	
1,SHELL	SHIELD (BRAID)		40 in.*		CONNECTED ONLY TO BRAID CLAMP	SHIELD (BRAID)	SHIELD	N/C
13	(CABLE 1) WIRE 13	White	40 in.*	TP-1	A4	(CABLE 1) WIRE 13	QPD 1 ANODE 4	A4
25	(CABLE 1) WIRE 25	White	40 in.*	11-1	A3	(CABLE 1) WIRE 25	QPD 1 ANODE 3	A3
12	(CABLE 1) WIRE 12	White	40 in.*	TP-2	A2	(CABLE 1) WIRE 12	QPD 1 ANODE 2	A2
24	(CABLE 1) WIRE 24	White	40 in.*	11 - 2	A1	(CABLE 1) WIRE 24	QPD 1 ANODE 1	A1
11	(CABLE 1) WIRE 11	White	40 in.*	TP-3	S	(CABLE 1) WIRE 11	QPD 1 SENSE	S
23	(CABLE 1) WIRE 23	White	40 in.*	11-5	CAT	(CABLE 1) WIRE 23	QPD 1 CATHODE	CAT
Image: Constraint of the second sec		CONNECTOR J3 - QPD FEMALE CONNECTOR (PEEK)			PCB CONNECTION			
					PIN	WIRE NAME	SIGNAL	
1,SHELL	SHIELD (BRAID)		40 in.*		CONNECTED ONLY TO BRAID CLAMP	SHIELD (BRAID)	SHIELD	N/C
10	(CABLE 2) WIRE 10	White	40 in.*	TP-4	A4	(CABLE 2) WIRE 10	QPD 2 ANODE 4	A4
22	(CABLE 2) WIRE 22	White	40 in.*	11-4	A3	(CABLE 2) WIRE 22	QPD 2 ANODE 3	A3
9	(CABLE 2) WIRE 9	White	40 in.*	TP-5	A2	(CABLE 2) WIRE 9	QPD 2 ANODE 2	A2
21	(CABLE 2) WIRE 21	White	40 in.*	11-5	A1	(CABLE 2) WIRE 21	QPD 2 ANODE 1	A1
8	(CABLE 2) WIRE 8	White	40 in.*	TP-6	S	(CABLE 2) WIRE 8	QPD 2 SENSE	S
20	(CABLE 2) WIRE 20	White	40 in.*	11-0	CAT	(CABLE 2) WIRE 20	QPD 2 CATHODE	CAT
PIN 14,2,	15,3,16,4,17,5,18,6,19	,7 N/C (NO	T CONNECTED)					
* USE WH	* USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF							
THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT								
OVERALL LENGTHS. : INCLUDE NOM. 40in. LENGTH + STRIP LENGTH +								

V-DB25 M/S1-40,40-2_QPD			
STANDARD USE FOR THIS CABLE			
SUBSYSTEM	AIR/VAC	STANDARD USE	
ISC	IN-VAC	QPD'S	
		FOR TRANSMON	

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		ノハハ		
1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS.			LIGO	CALIFORNIA INSTITUTE OF TECHNO MASSACHUSETTS INSTITUTE OF TEC	HNOLOG
	3. DO NOT SCALE FROM DRAWING.			SUB-S	SYSTEM
	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY	WATER SOLUBLE			SC
	AND FREE OF SULFUR, SILICONE, AND CHLORINE.	-			<u> </u>
	MATERIAL	FINISH	NEXT ASSY		
	Material <not specified=""></not>	µinch			
		2			0

ECHNOLOGY OF TECHNOLOGY		CUSTO		
	SUB-SYSTEM	DESIGNER	R. ABB	
ISC	DRAFTER	E. BRO		
	•	CHECKER		
		APPROVAL		

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TEST LIST		
FROM	то	
J1	J2	
PIN	PIN	
J1 - 1,SHELL	NOT CONNECTED	
J1 - 13	J2 - A4	
J1 - 25	J2 - A3	
J1 - 12	J2 - A2	
J1 - 24	J2 - A1	
J] - 11	J2 - S	
J1 - 23	J2 - CAT	
J1	J3	
PIN	PIN	
J1 - 1,SHELL	NOT CONNECTED	
J1 - 10	J3 - A4	
J1 - 22	J3 - A3	
J1 - 9	J3 - A2	
J1 - 21	J3 - A1	
J1 - 8	J3 - S	
J1 - 20	J3 - CAT	

