

5. CABLE IDENTIFICATION: IDENTIFY PER STATEMENT OF WORK.

- ⑥ MATERIAL:
- a. J1 CONNECTOR SHELL - PEEK VICTREX 450GL30.
 - b. J2 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30.
 - c. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
 - d. CONTACTS - BERYLLIUM COPPER ALLOY C17300, 0.000050 MIN. GOLD OVER NICKEL.
 - e. HARDWARE: STAINLESS STEEL, PASSIVATED.
 - f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED.

- ⑦ CABLE: 17 COND. 22 AWG, (150/44), WITH PFA INSULATION (COONER WIRE #CZ2205) 8 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE OVERALL 40AWG COPPER BRAID 50% COVERAGE. OVERALL PEEK BRAID MIN. 50% COVERAGE. OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

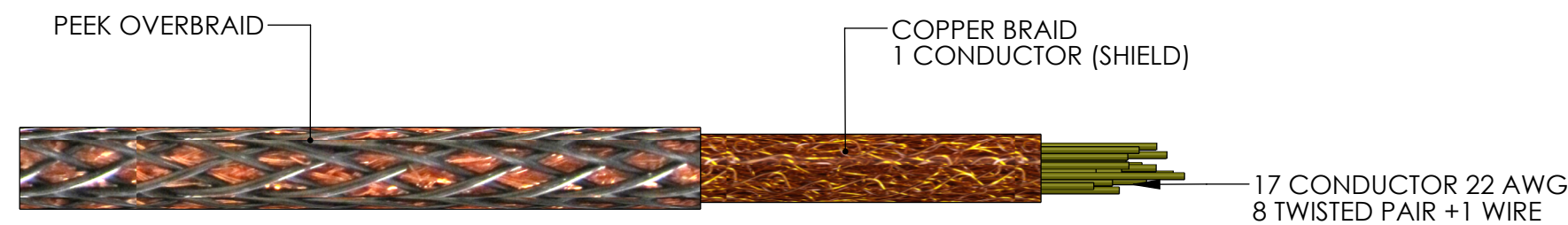
- ⑧ CONNECTORS WILL BE SUPPLIED WITH HARDWARE. LENGTH OF SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.

- ⑨ INDICATED LENGTH IS FROM CONNECTOR END TO CONNECTOR END. USE APPROPRIATE LENGTH TO COMPENSATE FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH.

- ⑩ INDICATED DIMENSIONS SHOWN FOR REFERENCE ONLY.

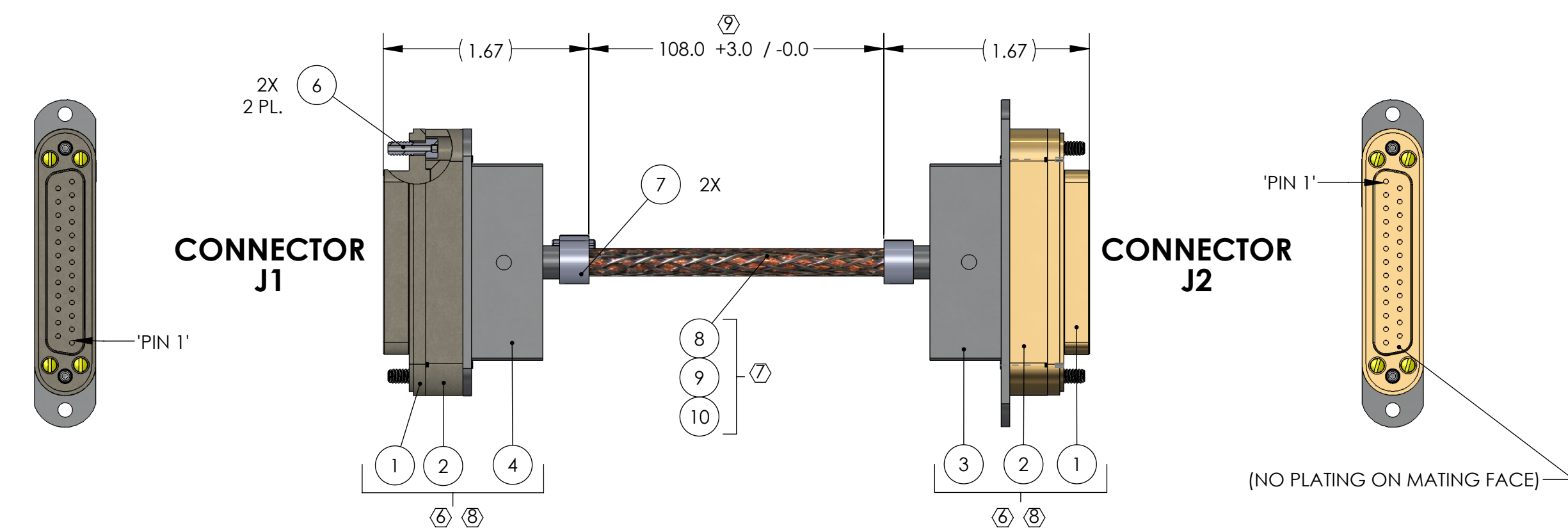
- ⑫ PART NO. SHOWN CORRESPONDS TO UNPLATED PARTS. MATERIALS/FINISH AS SPECIFIED ON NOTE 6, SHALL TAKE PRECEDENCE AT ALL TIMES.

- ⑬ FILL UNUSED CONTACT POSITIONS WITH UNCRIMPED CONTACTS.



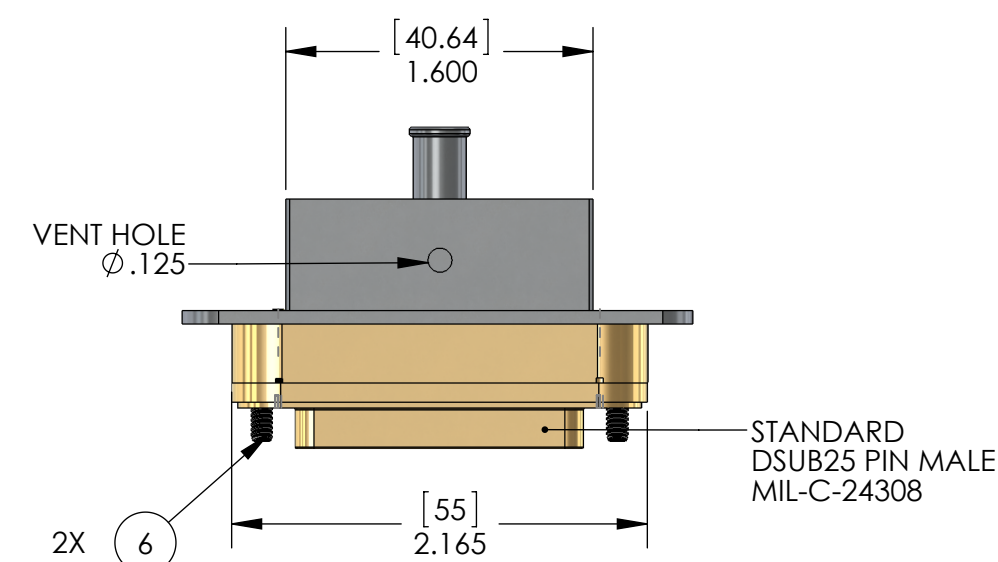
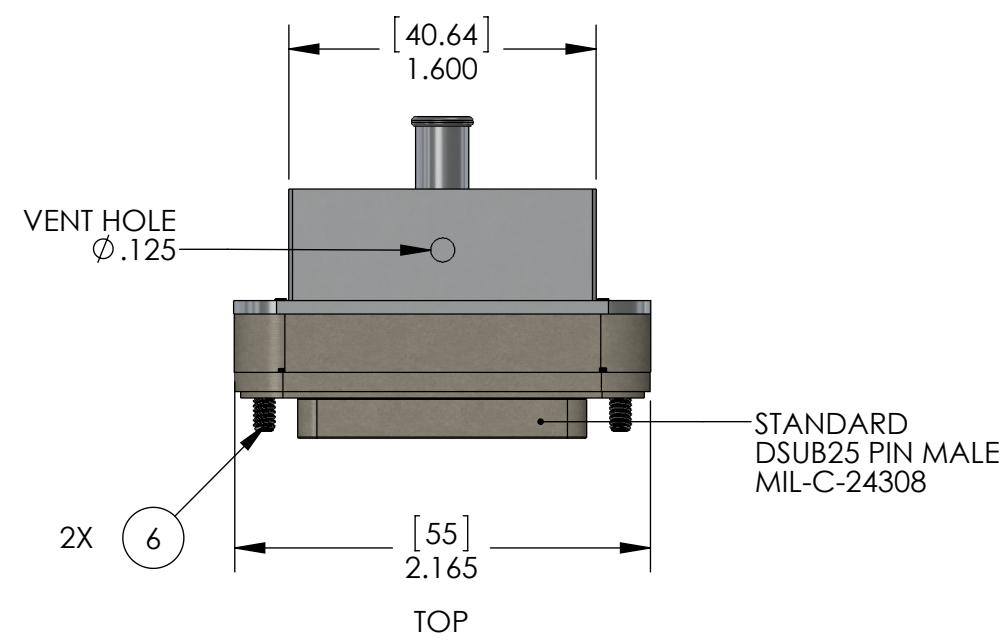
CABLE DETAIL

ISC TRANSMON PICOMOTOR CABLE V-DB25HD F/S1-108-DB25HD F/S1		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
ISC (IO)	IN-VAC	PICOMOTOR FLANGE TO TOP
		HAM2, FLANGE D4-3C2 TO CB6, IO PICOMOTORS HAM3, FLANGE D3-3C1 TO CB3, IO PICOMOTORS



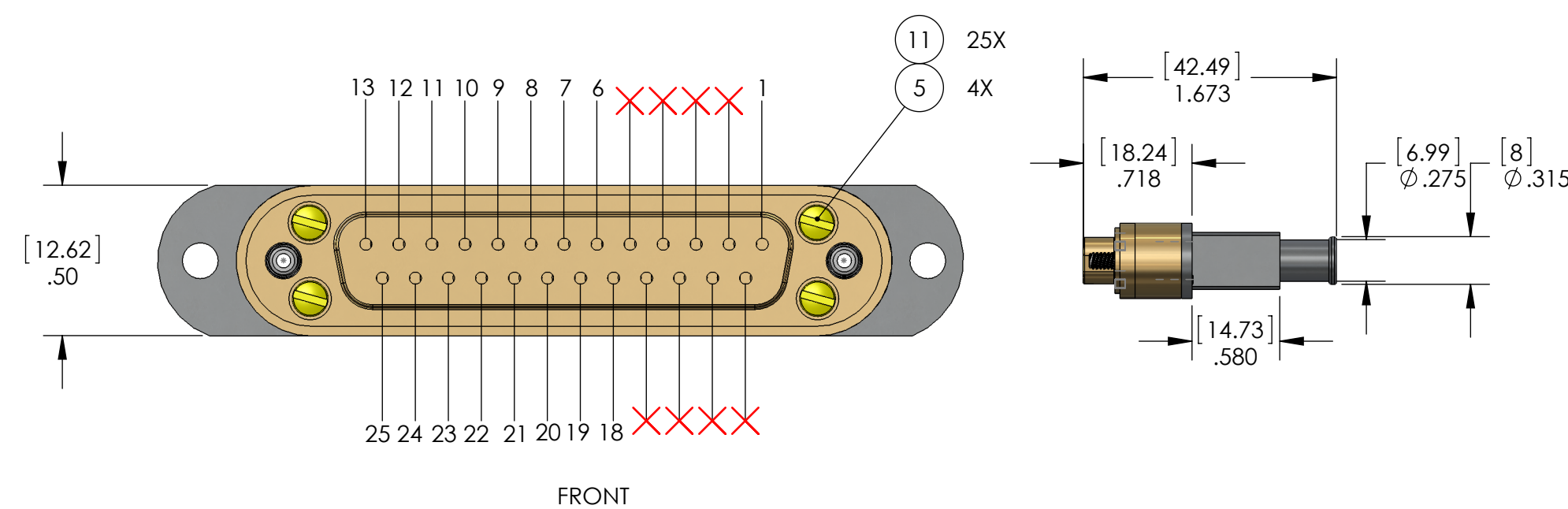
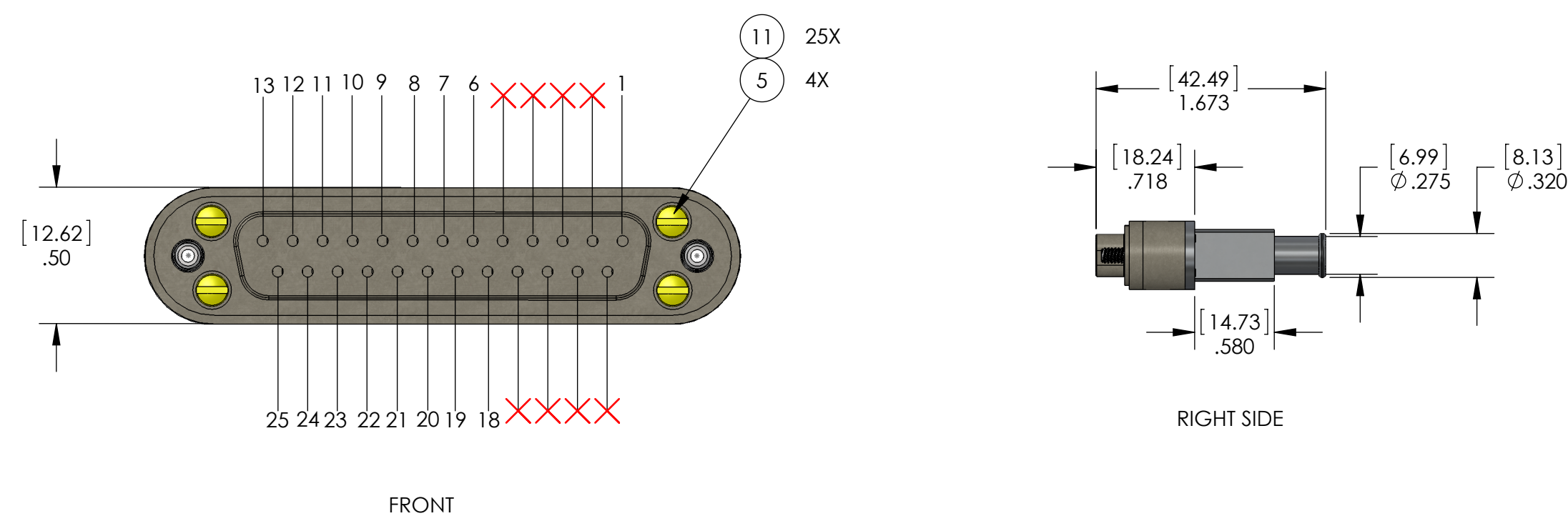
CONNECTOR 'J1' ⑥ ⑧ ⑩ ⑬

CONNECTOR 'J2' ⑥ ⑧ ⑩ ⑬



V25B-108 CABLE ASSEMBLY CIRCUIT SUMMARY
V-DB25HD F/S1-108-DB25HD F/S1

FROM 'J1'		TO 'J2'	
PIN	WIRE NAME	TWISTED PAIR	PIN
1, SHELL	WIRE 1		1, SHELL
13	WIRE 13		13
25	WIRE 25	TP-1	25
12	WIRE 12	TP-2	12
24	WIRE 24		24
11	WIRE 11	TP-3	11
23	WIRE 23		23
10	WIRE 10	TP-4	10
22	WIRE 22		22
9	WIRE 9	TP-5	9
21	WIRE 21		21
8	WIRE 8	TP-6	8
20	WIRE 20		20
7	WIRE 7	TP-7	7
19	WIRE 19		19
6	WIRE 6	TP-8	6
18	WIRE 18		18



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	TOTAL
11	038-5001-2022 TICOR OR EQ.	SIZE 20 SOCKET CONTACT, 22D CRIMP BARREL	SEE NOTE 6	50
10	6759	PEEK OVERBRAID, 50% COVERAGE MIN.	ZEUS .016 BLK PEEK DRAWN MONOFILAMENT	A/R
9	24X3X40BC CONTINENTAL CORDAGE	1/8 DIA. COPPER BRAID	COPPER	A/R
8	CZ2205 COONER WIRE	WIRE, 22 AWG (150/44)	SEE NOTE 7	A/R
7	600-052 GLENAIR OR EQ.	BRAID CLAMPING BAND, .24 WIDE	ST. STEEL, PASSIVATED	2
6	013-2702-0000 TICOR OR EQ.	SCREW, SHC, 4-40 X .305 LG., VENTED	SEE NOTE 6	4
5	013-2701-0001 TICOR OR EQ.	SCREW, FILLISTER HEAD, 1-72 X .450 LG., SLOTTED		8
4		UHV DSUB25 CONNECTOR BACKSHELL, W/O EARS		1
3		UHV DSUB25 CONNECTOR BACKSHELL, W/ EARS		1
2	034-1002-2520 TICOR OR EQ.	CONTACT RETAINER, DSUB25, UHV, SHIELDED		2
1	034-1001-2520 TICOR OR EQ.	DSUB25 CONNECTOR INTERFACE, UHV, SHIELDED (FEMALE)		2

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES	1. INTERPRET DRAWING PER ASME Y14.5-1994.	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PART NAME CUSTOM CABLE SPECIFICATION, V25B-108		
TOLERANCES: .XX ± .10 .XXX ± .005	2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.		SYSTEM ADVANCED LIGO	SUB-SYSTEM ISC/IO	DESIGNER R.ABBOT 04 MAY 2011
ANGULAR ± .5°	3. DO NOT SCALE FROM DRAWING.		NEXT ASSY N/A	DRFTER E.BROWN 25 APR 2011	SIZE D
	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		FINISH N/A μinch	CHECKER SEE DCC	DWG. NO. D1101659
			APPROVAL SEE DCC	REVISION v6	