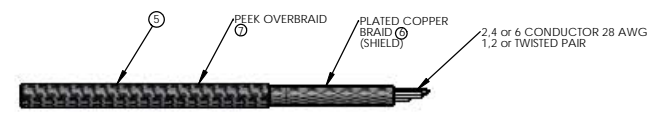
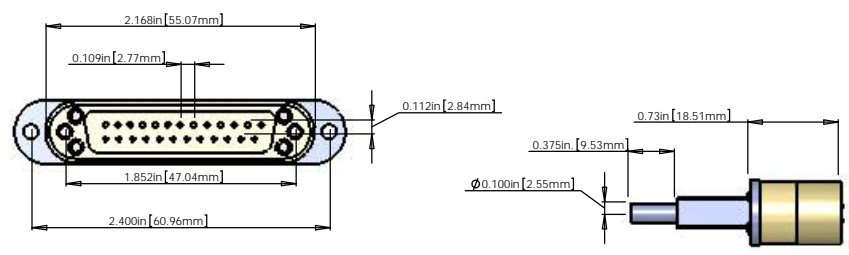
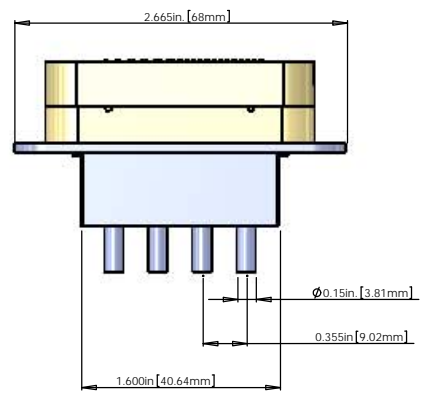
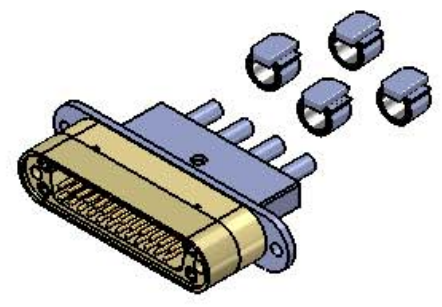
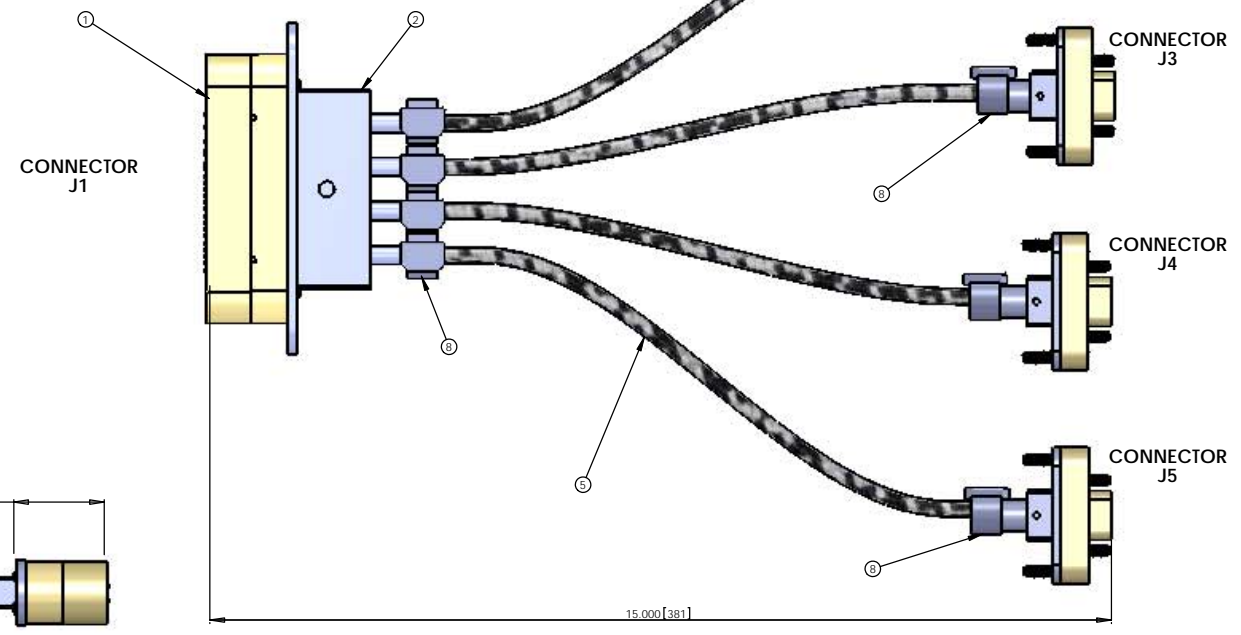


REV.	DATE	DCN #	DRAWING TREE #

NOTES CONTINUED:
 ○ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP TWO INKS OR DYED DRAWING PART NUMBERS AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07 HIGH CHARACTERS. EXAMPLE: D1000000V1-SN001. A VIBRATORY TOOL MAY BE USED.



V25N CABLE ASSEMBLY CIRCUIT SUMMARY				
V-DB25 M/1-15-4_OSEM				
FROM				
CONNECTOR J1 - 25 PIN SUBMINI_D CONNECTOR (PEEK)				
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR
1	(SHIELD)			(SHIELD)
1	(CABLE 1) WIRE 1	White		
2	(CABLE 1) WIRE 2	White		TP-1
14	(CABLE 1) WIRE 14	White		TP-1
3	(CABLE 1) WIRE 3	White		TP-2
15	(CABLE 1) WIRE 15	White		TP-2
4	(CABLE 1) WIRE 4	White		TP-3
16	(CABLE 1) WIRE 16	White		TP-3
5	(CABLE 2) WIRE 5	White		TP-4
17	(CABLE 2) WIRE 17	White		TP-4
6	(CABLE 2) WIRE 6	White		TP-5
18	(CABLE 2) WIRE 18	White		TP-5
7	(CABLE 2) WIRE 7	White		TP-6
19	(CABLE 2) WIRE 19	White		TP-6
8	(CABLE 3) WIRE 8	White		TP-7
20	(CABLE 3) WIRE 20	White		TP-7
9	(CABLE 4) WIRE 9	White		TP-8
21	(CABLE 4) WIRE 21	White		TP-8
10	(CABLE 4) WIRE 10	White		TP-9
22	(CABLE 4) WIRE 22	White		TP-9



V25N CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J2 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
Pin	Wire Name	SIGNAL
5	SHIELD	SHIELD
4	(CABLE 1) WIRE 2	POWER -
9	(CABLE 1) WIRE 14	POWER - RTN
3	(CABLE 1) WIRE 3	POWER +
8	(CABLE 1) WIRE 15	POWER + RTN
2	(CABLE 1) WIRE 4	LOCK +
7	(CABLE 1) WIRE 16	LOCK -

V25N CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J3 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
Pin	Wire Name	SIGNAL
5	SHIELD	SHIELD
4	(CABLE 2) WIRE 10	POWER -
9	(CABLE 2) WIRE 22	POWER - RTN
3	(CABLE 2) WIRE 11	POWER +
8	(CABLE 2) WIRE 23	POWER + RTN
2	(CABLE 2) WIRE 12	LOCK +
7	(CABLE 2) WIRE 24	LOCK -

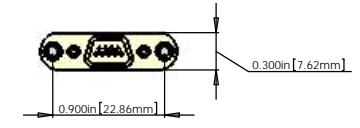
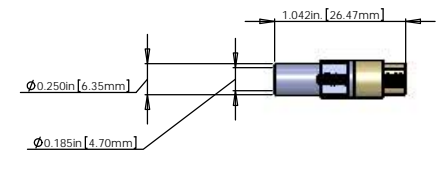
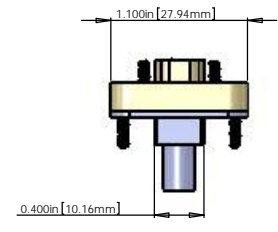
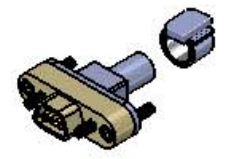
V25N CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J4 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
Pin	Wire Name	SIGNAL
5	SHIELD	SHIELD
4	(CABLE 3) WIRE 10	POWER -
9	(CABLE 3) WIRE 22	POWER - RTN

V25N CABLE ASSEMBLY CIRCUIT SUMMARY		
TO		
CONNECTOR J5 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)		
Pin	Wire Name	SIGNAL
5	SHIELD	SHIELD
4	(CABLE 4) WIRE 10	POWER -
9	(CABLE 4) WIRE 22	POWER - RTN
3	(CABLE 4) WIRE 11	POWER +
8	(CABLE 4) WIRE 23	POWER + RTN
6		

BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
①	TICOR #TS0125-3	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
②	TICOR #TS0094	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
③	TICOR #S0094 WITH FLYING LEADS	DB9 (DE9) FEMALE CONNECTOR (J2, J3, J4, J5) FOR UHV (PEEK)	4	
④	C1	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4	
⑤		7 COND. (3 TWISTED PAIR) CABLE (ADD COPPER BRAID (SHIELD) ⑥ AND PEEK OVERBRAID) ⑦	4	15in.*
⑥	CONTINENTAL PART #24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC	4	
⑦	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	4	
⑧	GLENNAIR 600-052	GLENNAIR 600-052 STANDARD BRAID CLAMP	8	

* NOTE: THE OVERALL LENGTH IS MEASURED FROM PIN TIP (25 PIN) TO PIN TIP (9 PIN) OF THE CABLE. Use whatever length is necessary for the internal wiring of the connectors and strip length to achieve the correct overall length.

- NOTES: (UNLESS OTHERWISE SPECIFIED)
- MATERIAL: a. CONNECTOR SHELL - PEEK VICTREX GRADE TDS-450G.
 b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
 c. CONTACTS - BERYLLIUM COPPER ALLOY C17300
 0.00050 MIN. GOLD OVER NICKEL
 d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
 e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED
 - CABLE 2, 4 or 6 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE 1,2 or 3 TWISTED PAIRS (4 TO 5 TWISTS PER INCH)
 OVERALL 40AWG SILVER PLATED COPPER BRAID 90% COVERAGE
 OVERALL PEEK BRAID MIN. 50% COVERAGE
 OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.



V-DB25 M/1-15-4_OSEM		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
ISC	IN-VAC	TT TIP TILT OSEMS

DIMENSIONS ARE IN TOLERANCES: .XXX ± .0005 ANGULAR: ±	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES: R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		SYSTEM		SUB-SYSTEM	
MATERIAL: Material <not specified>	FINISH: μinch	NEXT ASSY:	DESIGNER: J.H.S./M.H.	CHECKER: E.S.C./M.H.	DATE: 10/23/2018	SCALE: 2:1
CUSTOM CABLE SPECIFICATION V25N			DWG. NO. D1000228- v1	REV. E	SHEET 1 OF 1	