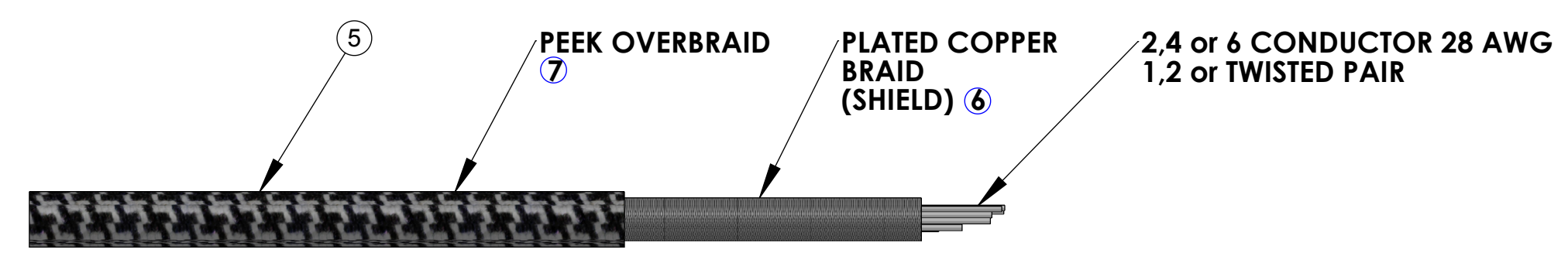
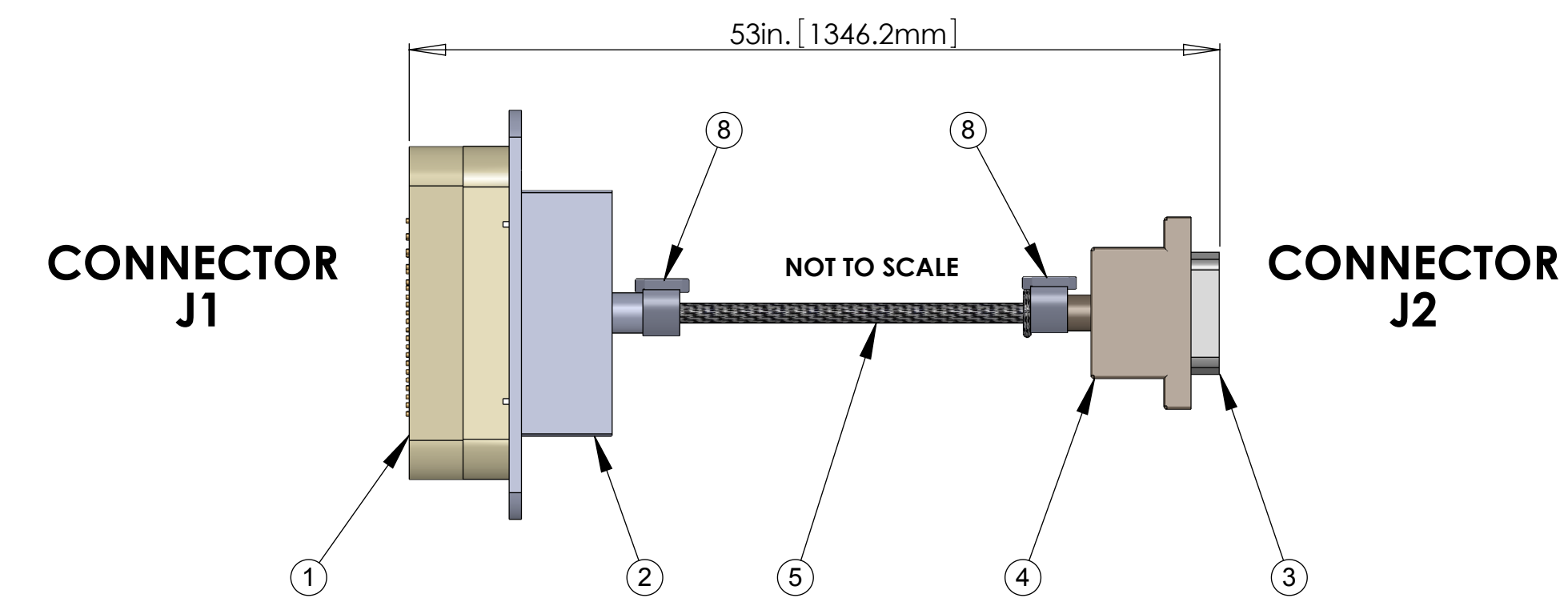
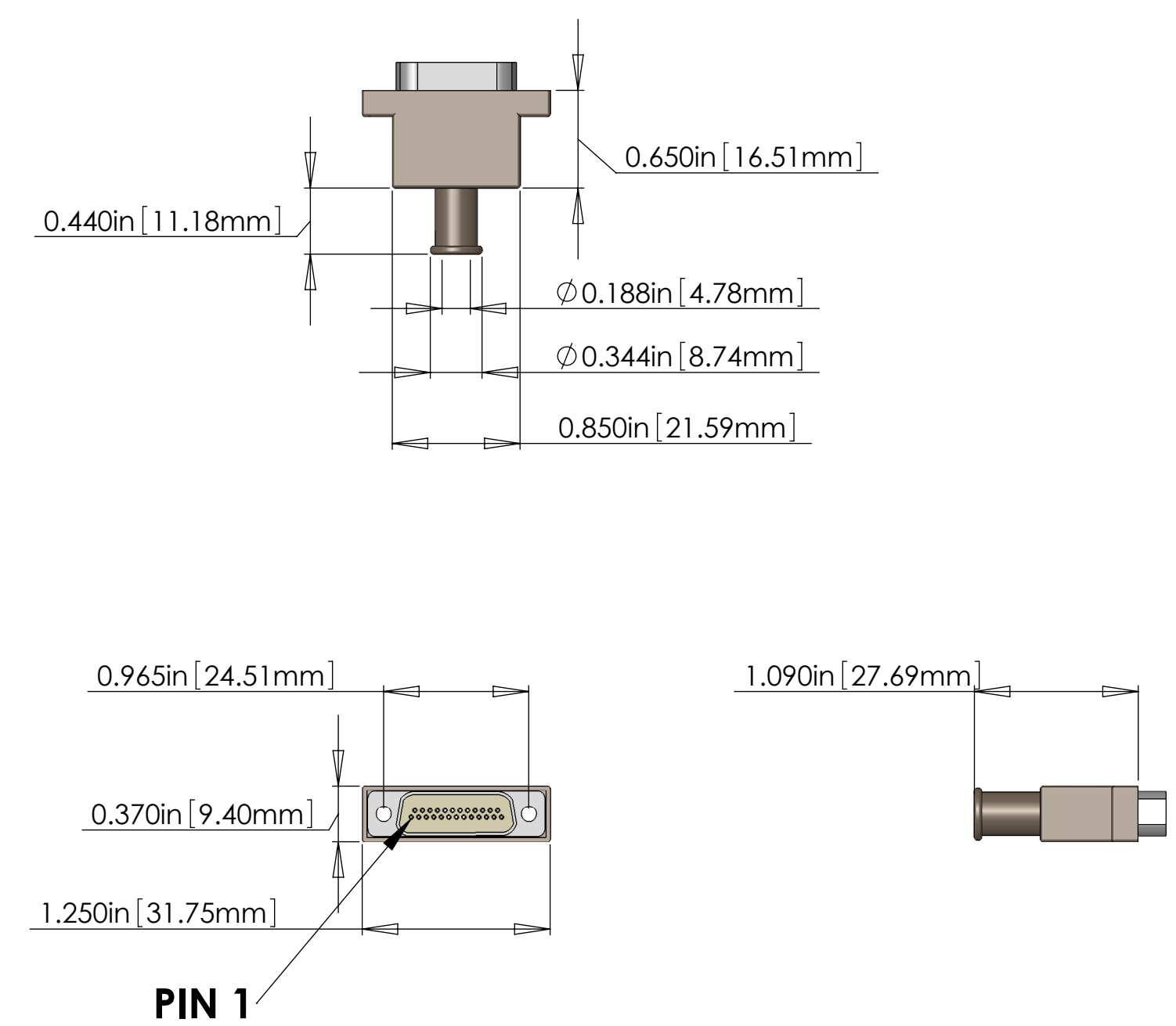
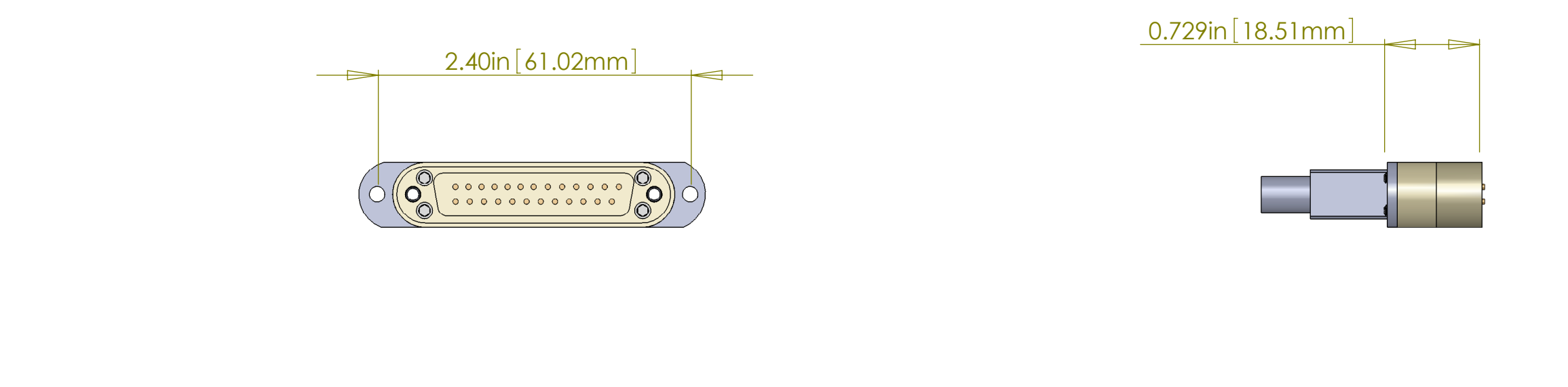
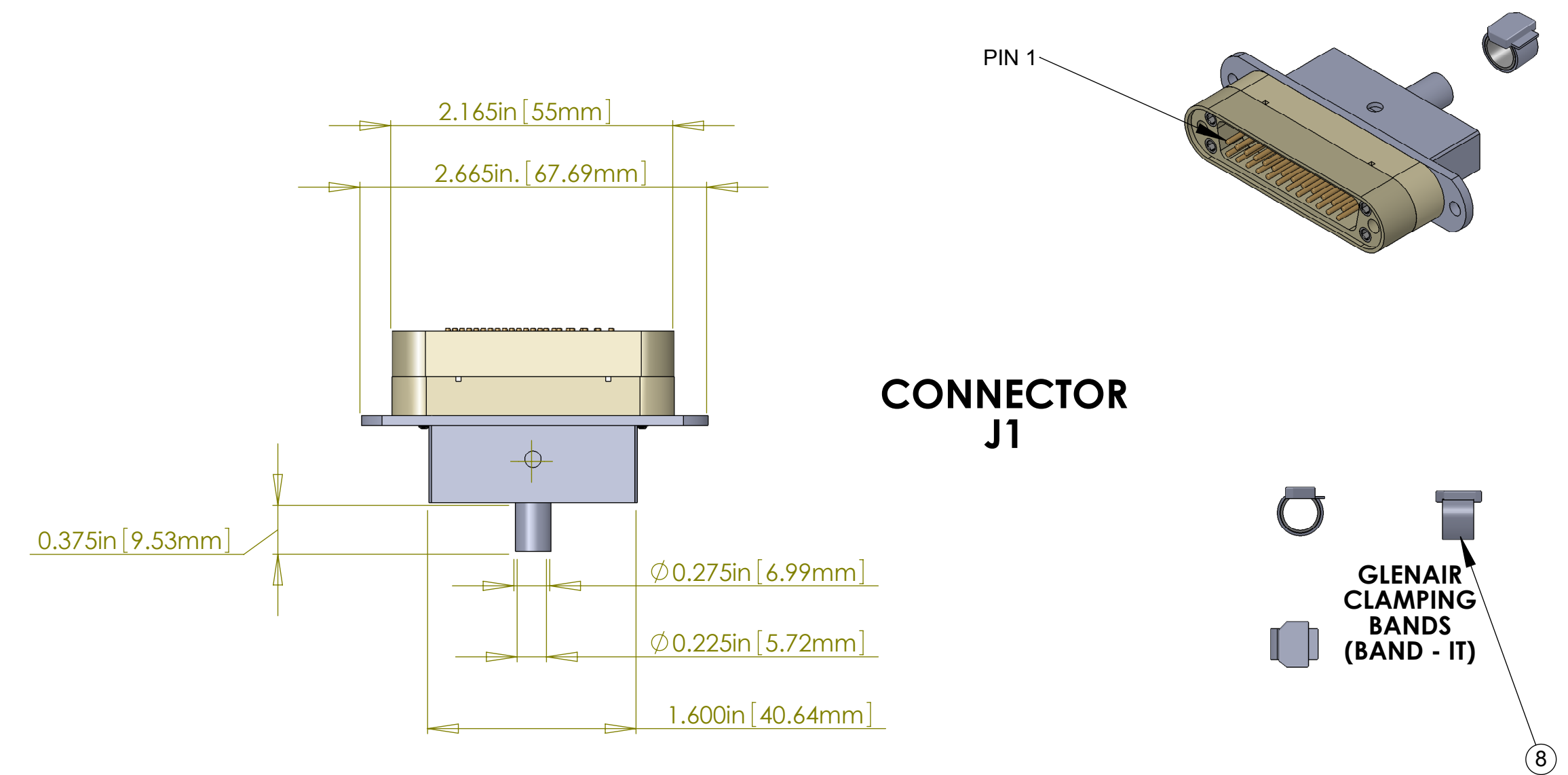


NOTES CONTINUED:
 ⑤ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: DXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.

REV.	DATE	DCN #	DRAWING TREE #



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
①	TICOR PART # TS0086-1	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
②		DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
③	Glenair # DCDM255-5-MC216-225-240	MicroD25 FEMALE CONNECTOR (J2) FOR UHV	1	
④	Glenair # 500T010M25H06	MicroD25 CONNECTOR BACKSHELL FOR UHV	1	
⑤	C1	25 COND. (12 TW PAIR + 1 WIRE + SHIELD) CABLE WITH COPPER BRAID (SHIELD) ⑥ AND PEEK OVERBRAID ⑦	1	53in *
⑥	CONTINENTAL PART #24x4x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x4x40BC	1	
⑦	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	1	
⑧	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP (BAND - IT)	2	

* NOTE: THE OVERALL LENGTH IS MEASURED FROM PIN TIP (25 PIN D-SUB) TO PIN TIP (25 PIN μD) 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 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 CARBON LOADED

- 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 SILVER PLATED COPPER BRAID 90% COVERAGE OVERALL PEEK BRAID MIN. 50% COVERAGE OVERALL CABLE O.D. WILL BE 0.240 IN.

V25G CABLE ASSEMBLY CIRCUIT SUMMARY					
V-DB25 M/S1-53-μD25 F/S1					
CABLE NAME	COND.- WIRE ID	TWISTED PAIR	LENGTH *	FROM	TO
V25G	25 COND. CABLE	(12 TOTAL)	53 in.	Conn. J1	Conn. J2
C1	SHIELD (COPPER BRAID)		53 in.	PIN 1, SHIELD & SHELL	PIN 1, SHIELD & SHELL
	W1	SINGLE WIRE	53 in.	PIN 1, SHIELD & SHELL	PIN 1, SHIELD & SHELL
	W2	TP-1	53 in.	PIN 2	PIN 2
	W14	TP-1	53 in.	PIN 14	PIN 14
	W3	TP-2	53 in.	PIN 3	PIN 3
	W15	TP-2	53 in.	PIN 15	PIN 15
	W4	TP-3	53 in.	PIN 4	PIN 4
	W16	TP-3	53 in.	PIN 16	PIN 16
	W5	TP-4	53 in.	PIN 5	PIN 5
	W17	TP-4	53 in.	PIN 17	PIN 17
	W6	TP-5	53 in.	PIN 6	PIN 6
	W18	TP-5	53 in.	PIN 18	PIN 18
W7	TP-6	53 in.	PIN 7	PIN 7	
W19	TP-6	53 in.	PIN 19	PIN 19	
W8	TP-7	53 in.	PIN 8	PIN 8	
W20	TP-7	53 in.	PIN 20	PIN 20	
W9	TP-8	53 in.	PIN 9	PIN 9	
W21	TP-8	53 in.	PIN 21	PIN 21	
W10	TP-9	53 in.	PIN 10	PIN 10	
W22	TP-9	53 in.	PIN 22	PIN 22	
W11	TP-10	53 in.	PIN 11	PIN 11	
W23	TP-10	53 in.	PIN 23	PIN 23	
W12	TP-11	53 in.	PIN 12	PIN 12	
W24	TP-11	53 in.	PIN 24	PIN 24	
W13	TP-12	53 in.	PIN 13	PIN 13	
W25	TP-12	53 in.	PIN 25	PIN 25	

* The length shown in this list is the overall length of the cable from connector end to connector end. Change length as necessary to compensate for the internal wiring of the connectors and strip length.

V-DB25 M/S1-53-μD25 F/S1		
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	AIR/VAC	STANDARD USE
SUS	IN-VAC	QUAD SUSPENSION UIM

DIMENSIONS ARE IN		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
TOLERANCES: .XX ± .XXX ±		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		CUSTOM CABLE SPECIFICATION V25G V-DB25 M/S1-53-μD25 F/S1	
ANGULAR ± °		MATERIAL: Material <not specified>		SUB-SYSTEM		DESIGNER	
		FINISH: μinch		NEXT ASSY		DRAFTER: E. BROWN	
						CHECKER: SEP/21/2011	
						APPROVAL	
						SIZE DWG. NO. D LIGO-D1000566-	
						REV. v3	
						SCALE: 1:1 PROJECTION: SHEET 1 OF 1	

D1000566 cable V25G V3 PART PDM REV. DRAWING PDM REV.