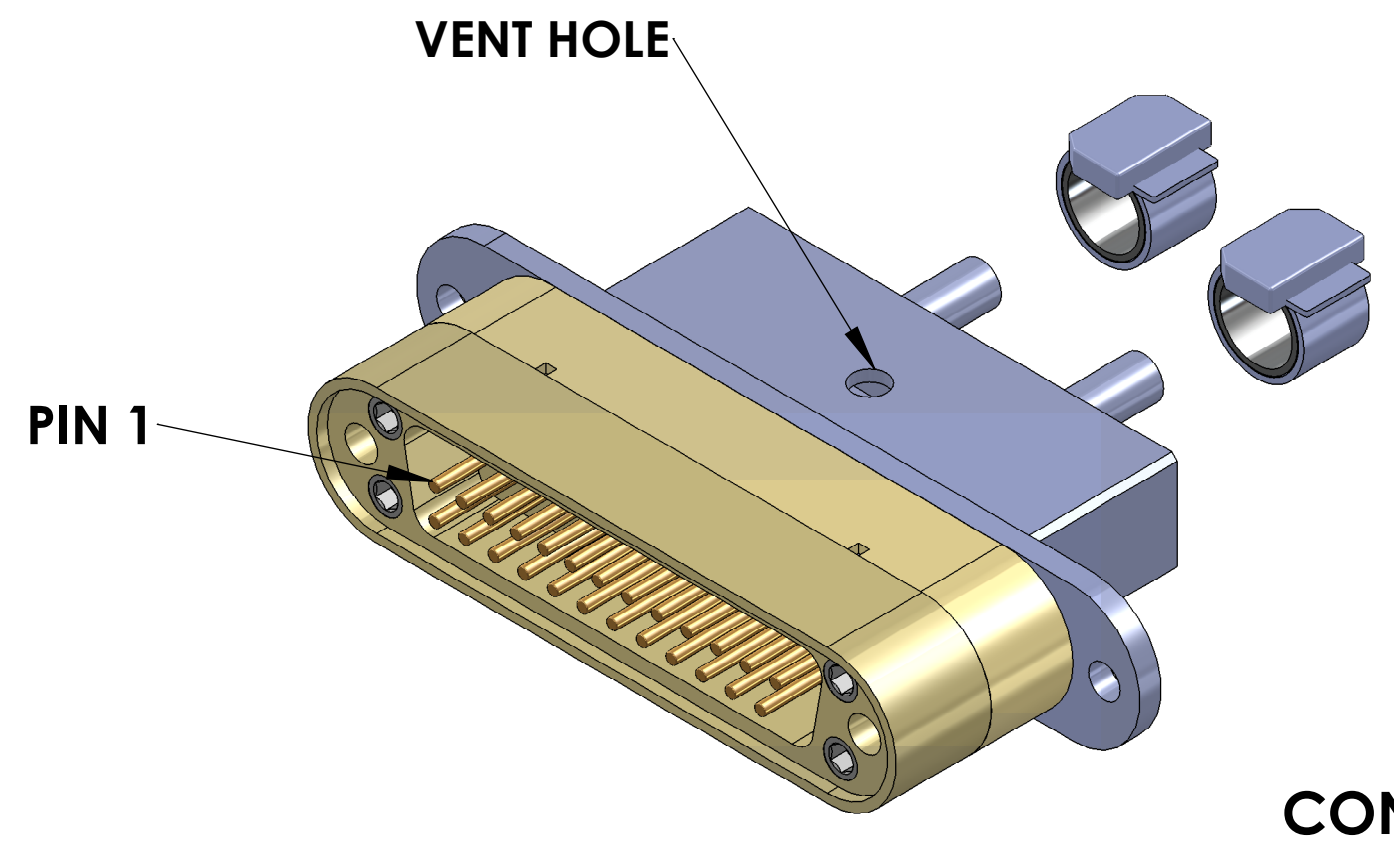
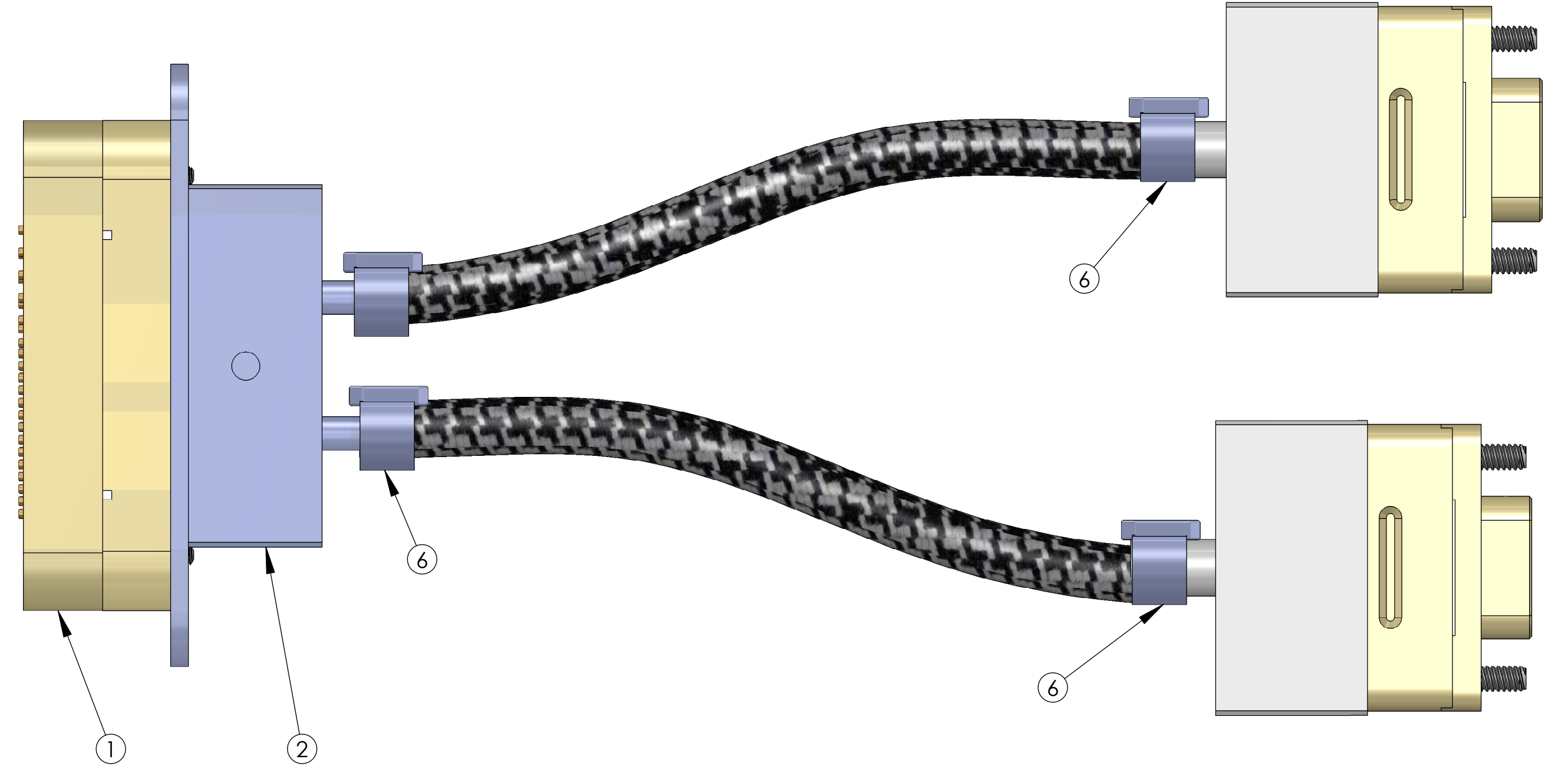


- NOTES CONTINUED:
- SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE 07 HIGH CHARACTERS. EXAMPLE: DXXXXXX.YY.S/N.001. A VIBRATORY TOOL MAY BE USED.
 - APPROXIMATE WEIGHT = X.XXXX LB.
 - MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-ED900364
 - ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
 - ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EBHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4.
 - ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL AFTER DELIVERY OF FINISHED PARTS. USE NITRONIC 60 THREADED INSERTS.
 - ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED BY ADVANCE. AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-ED900364.
 - SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.
 - PART WILL BE PORCELAIN COATED PER LIGO SPECIFICATION E100083 AFTER FABRICATION. THE INDICATED HOLES WILL BE MASKED PRIOR TO PORCELAIN COATING TO APPROXIMATELY 2.5-3X HOLE DIAMETER CENTERED ON BOTH SIDES OF THE HOLE.
 - DIMENSIONS APPLY BEFORE PORCELAIN COATING UNLESS SPECIFIED.
 - BEND RADIUS UNLESS OTHERWISE NOTED. THE BEND RADIUS SHOULD BE THE MINIMUM REQUIRED TO FORM WITHOUT CRACKING OR REQUIRING ADDITIONAL WORK. WHEN FORMING, IN PARTICULAR IF SHEET METAL IS TO BE PORCELAIN COATED, THE BEND RADIUS SHALL BE A MINIMUM OF .12" OUTSIDE RADIUS OF BEND UNLESS OTHERWISE NOTED.

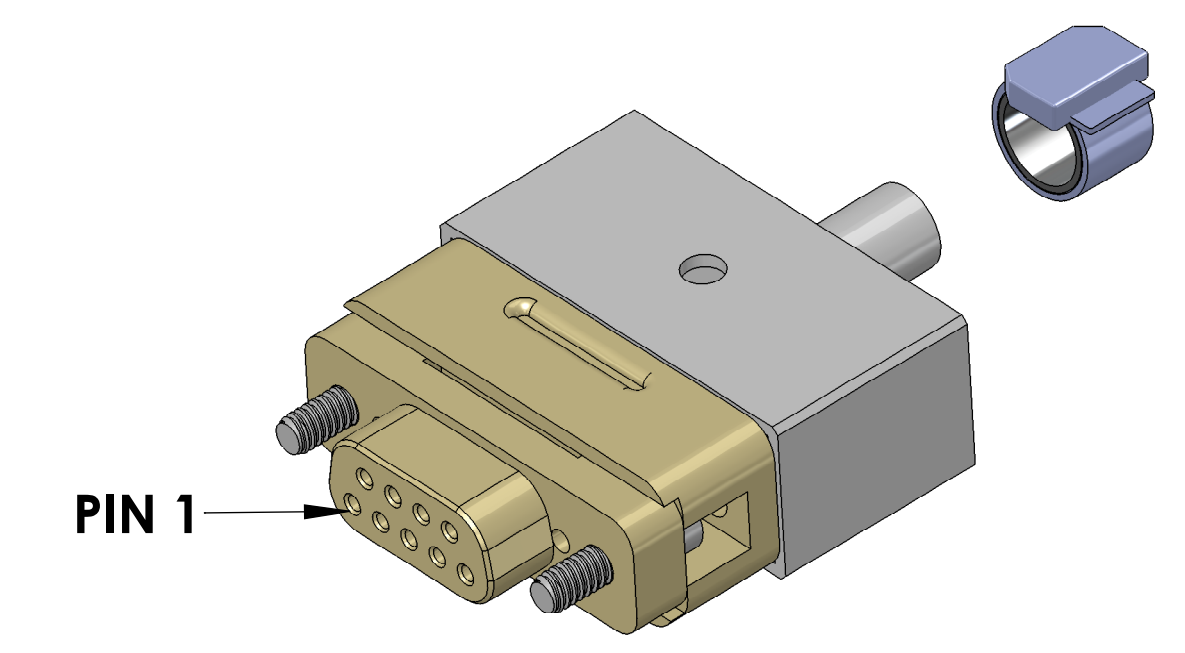


CONNECTOR J1

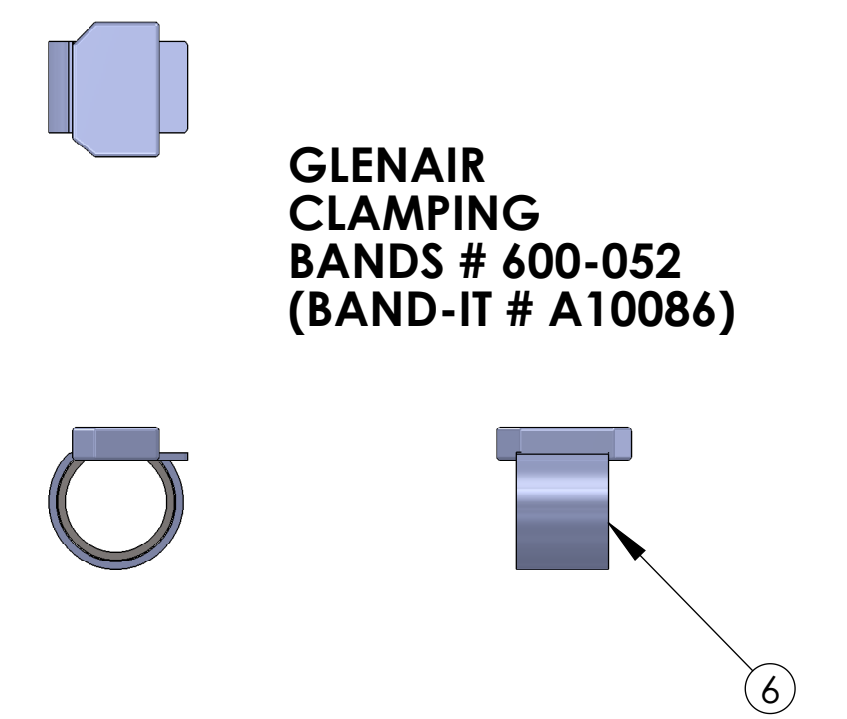
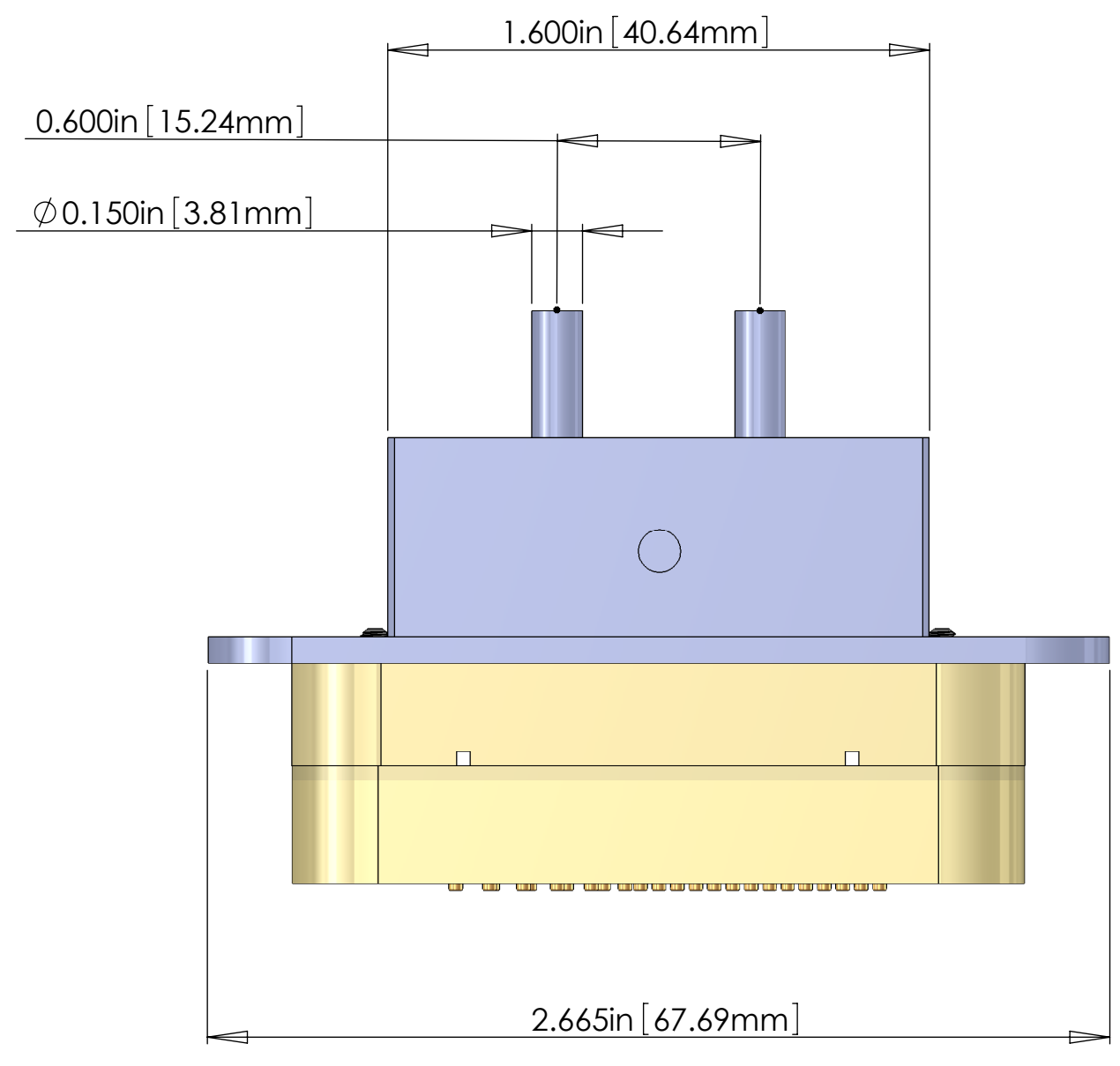


CONNECTOR J2

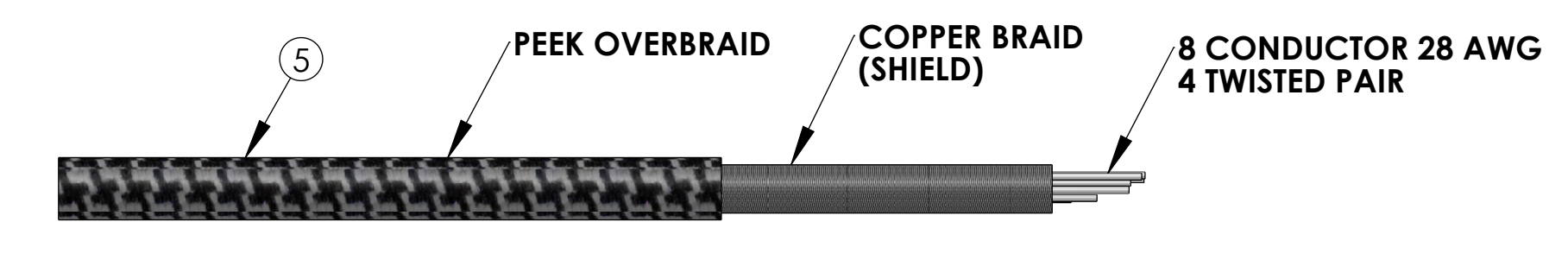
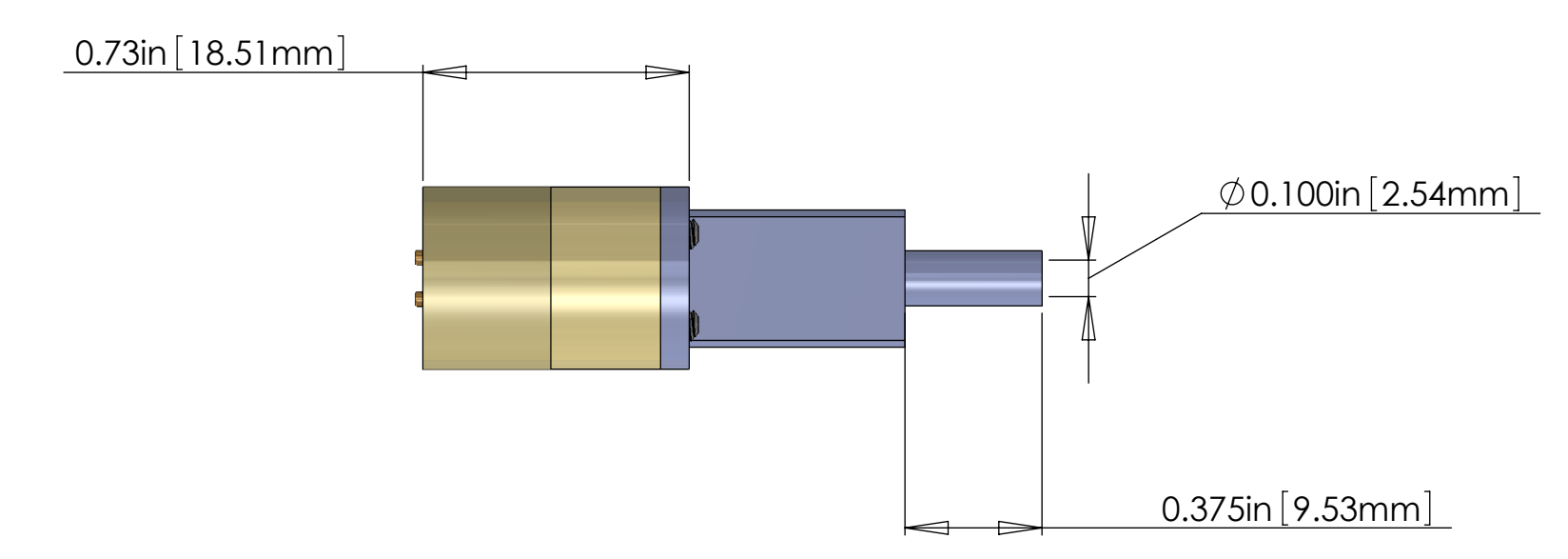
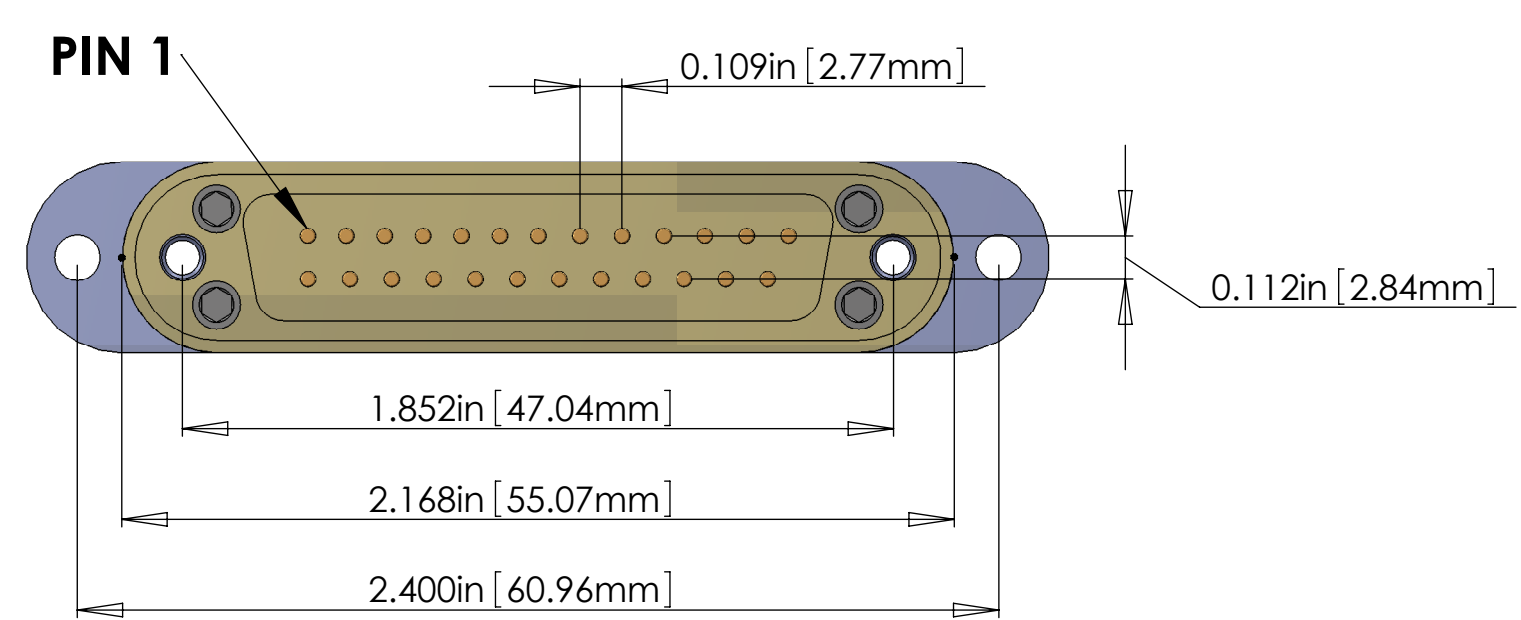
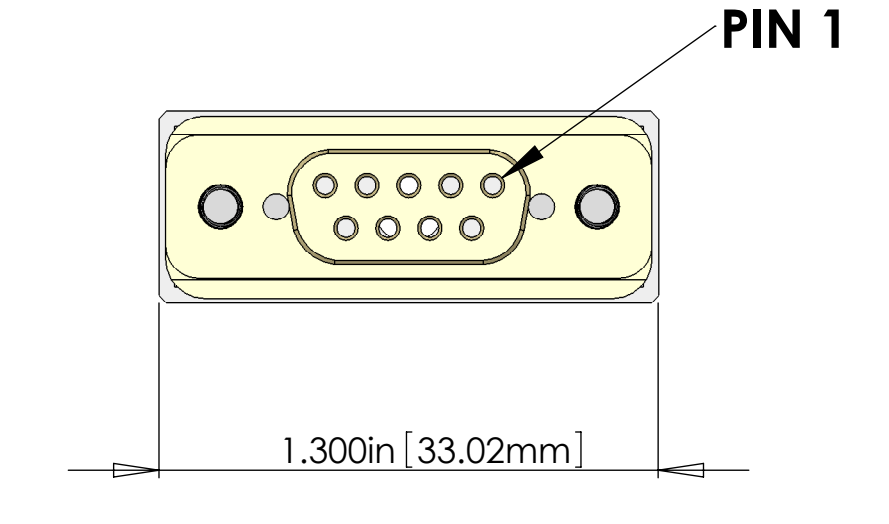
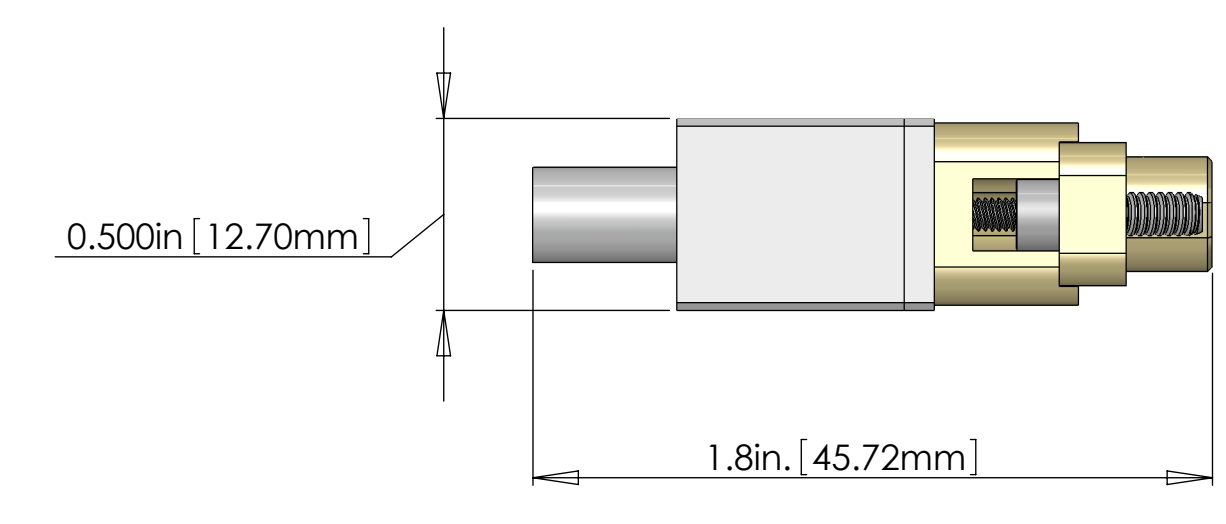
CONNECTOR J3



PIN 1

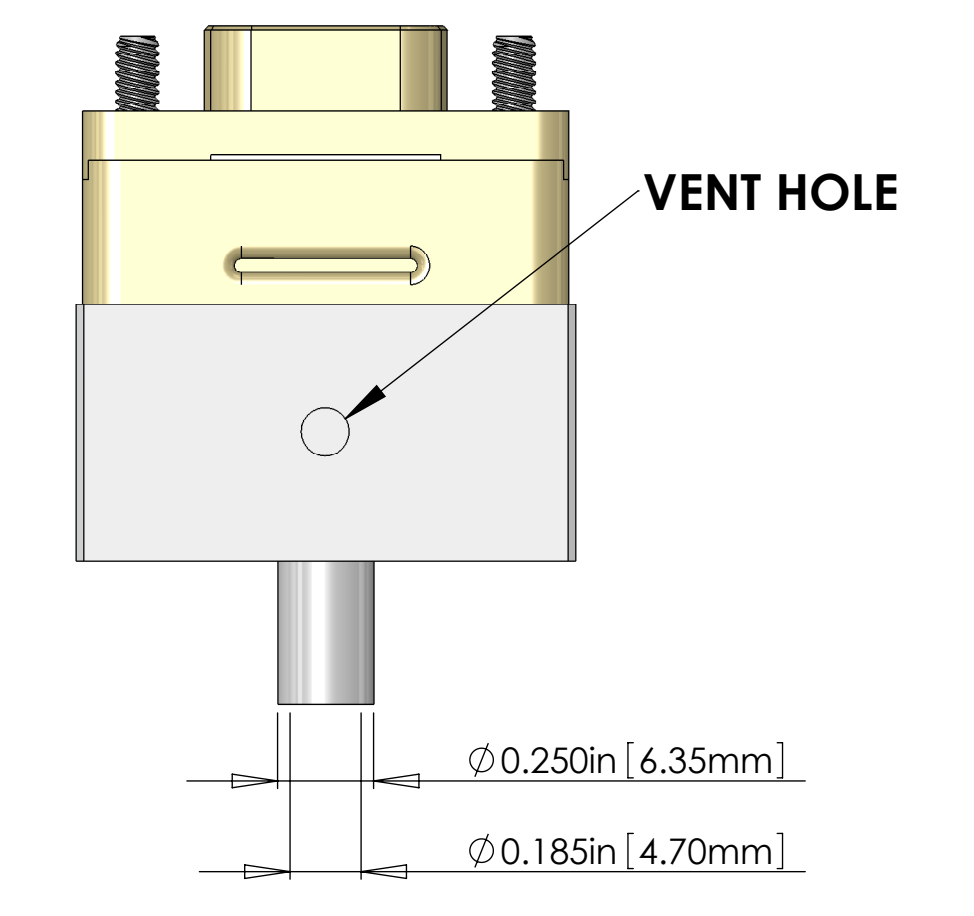


GLENAIR CLAMPING BANDS # 600-052 (BAND-IT # A10086)



NEEDS TO BE VERIFIED AND OR UPDATED WITH CORRECT WIRING INFORMATION

V25W CABLE ASSEMBLY CIRCUIT SUMMARY							
V-DB25 M/S-22,23-2_DB9 F/X							
FROM				TO			
CONNECTOR J2 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)				CONNECTOR J2 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)			
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR	PIN	WIRE NAME	SIGNAL
1,9,SHELL	SHIELD (BRAID)		22in.		N/C (not connected)	SHIELD (BRAID)	SHIELD
2	(CABLE 1) WIRE 2	White	22in.	SINGLE WIRE	5	(CABLE 1) WIRE 1	SHIELD
14	(CABLE 1) WIRE 14	White	22in.	TP-1	4	(CABLE 1) WIRE 2	POWER -
3	(CABLE 1) WIRE 3	White	22in.	TP-2	9	(CABLE 1) WIRE 14	POWER - RTN
15	(CABLE 1) WIRE 15	White	22in.	TP-2	3	(CABLE 1) WIRE 3	POWER +
4	(CABLE 1) WIRE 4	White	22in.	TP-3	8	(CABLE 1) WIRE 15	POWER + RTN
16	(CABLE 1) WIRE 16	White	22in.	TP-3	2	(CABLE 1) WIRE 4	LOCK +
5	(CABLE 1) WIRE 5	White	22in.	TP-4	7	(CABLE 1) WIRE 16	LOCK -
17	(CABLE 1) WIRE 17	White	22in.	TP-4	1	(CABLE 1) WIRE 5	SIG +
					6	(CABLE 1) WIRE 17	SIG -
CONNECTOR J3 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)				CONNECTOR J3 - 9 PIN SUBMINI_D FEMALE CONNECTOR (PEEK)			
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR	PIN	WIRE NAME	SIGNAL
9,1,SHELL	SHIELD (BRAID)		23in.		N/C (not connected)	SHIELD (BRAID)	SHIELD
10	(CABLE 2) WIRE 10	White	23in.	SINGLE WIRE	5	(CABLE 2) WIRE 9	SHIELD
22	(CABLE 2) WIRE 22	White	23in.	TP-5	4	(CABLE 2) WIRE 10	POWER -
11	(CABLE 2) WIRE 11	White	23in.	TP-5	9	(CABLE 2) WIRE 22	POWER - RTN
23	(CABLE 2) WIRE 23	White	23in.	TP-6	3	(CABLE 2) WIRE 11	POWER +
12	(CABLE 2) WIRE 12	White	23in.	TP-6	8	(CABLE 2) WIRE 23	POWER + RTN
24	(CABLE 2) WIRE 24	White	23in.	TP-7	2	(CABLE 2) WIRE 12	LOCK+
13	(CABLE 2) WIRE 13	White	23in.	TP-7	7	(CABLE 2) WIRE 24	LOCK -
25	(CABLE 2) WIRE 25	White	23in.	TP-8	1	(CABLE 2) WIRE 13	SIG +
					6	(CABLE 2) WIRE 25	SIG -



BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	CUSTOM DB25 MALE	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
2	CUSTOM BACKSHELL	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
3	CUSTOM DB9 FEMALE	DB9 FEMALE CONNECTOR (J2,J3) FOR UHV (PEEK)	2	
4	CUSTOM BACKSHELL	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	2	
5	C1	9 COND. (4 TW PAIR+ SHIELD) CABLE WITH COPPER BRAID (SHIELD) AND PEEK OVERBRAID	2	22in. 23in.
6	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)	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)

- MATERIAL:
 - CONNECTOR SHELL - PEEK OR METALIZED PEEK - VICTREX 450GL30
 - BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
 - CONTACTS - BERYLLIUM COPPER ALLOY C17300 0.00050 MIN. GOLD OVER NICKEL
 - HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
 - PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO
- CABLE 9 COND. 28 AWG (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE (SUPPLIED BY LIGO) 4 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE OVERALL 40AWG COPPER BRAID 50% 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)

V-DB25 M/S-22,23-2_DB9 F/X	
STANDARD USE FOR THIS CABLE	
SUBSYSTEM	STANDARD USE
ISC	TABLE TO DCPD IN VAC PREAMP

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME			
DIMENSIONS ARE IN .XX ± .XXX ± ANGULAR ± °		1. INTERPRET DRAWING PER ASME Y14.5-1994 2. REMOVE ALL SHARP EDGES .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.		CUSTOM CABLE SPECIFICATION V25W		DESIGNER: R.ABBOIT DRAFTER: E.BROWN CHECKER: APPROVAL:	
MATERIAL: Material <not specified>		FINISH: μinch		SUB-SYSTEM: ISC			
NEXT ASSY:		SCALE: 2:1		DWG. NO. D1000233			
PROJECT:		PROJECTION:		REV. v3			
SHEET 1 OF 1							