CHARACTERS.

DXXXXXXX-VY, S/N 001.

VIBRATORY TOOL MAY BE USED.

**EXAMPLE:** 

6. APPROXIMATE WEIGHT = X.XXX LB.

7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.

8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH

LIGO SPECIFICATION E0900364.

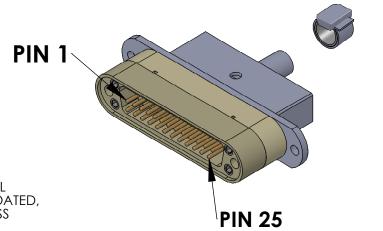
9. ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO

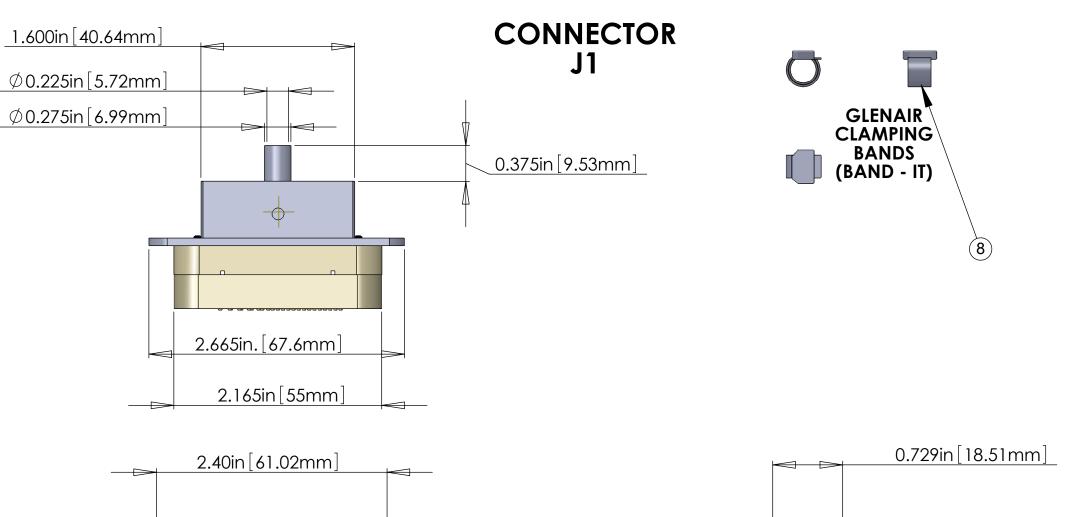
11. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS,

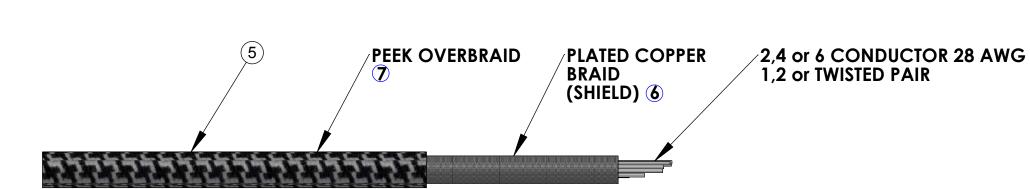
12. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM

13. PART WILL BE PORCELAIN COATED PER LIGO SPECIFICATION E1000083 PORCELAIN COATING TO APPROXIMATELY 2.5-3X HOLE DIAMETER

15. 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







ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	TICOD DADT # TCOOO/ 1	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
2	TICOR PART # TS0086-1	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	<b>I</b>	
3	TICOR PART # TS-0143-1	MicroD25 FEMALE CONNECTOR (J2) FOR UHV	1	
4	BACKSHELL (included in PART # TS-0143-1)	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		
6	CONTINENTAL PART #24x4x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x4x40BC	1	90in *
7	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT		

GLENAIR 600-052 STANDARD BRAID CLAMP (BAND - IT)

\* 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 )

**GLENAIR 600-052** 

1. 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

2. CABLE 25 COND. 28 AWG (65/46), WITH PFA INSULATION COONER WIRE #CZ1105 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.

REFER TO LIGO-E0900364

EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4

10. ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS, USE NITRONIC 60 THREADED INSERTS.

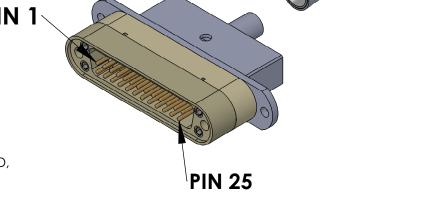
PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

SCRATCHES OR GOUGES.

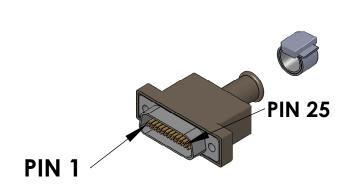
AFTER FABRICATION. THE INDICATED HOLES WILL BE MASKED PRIOR TO CENTERED ON BOTH SIDES OF THE HOLE.

14. DIMENSIONS APPLY BEFORE PORCELAIN COATING UNLESS SPECIFIED.

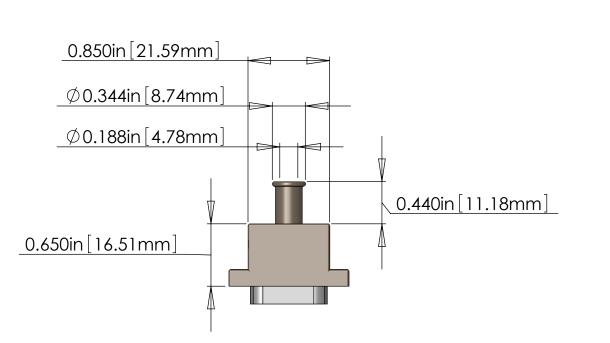
OTHERWISE NOTED.

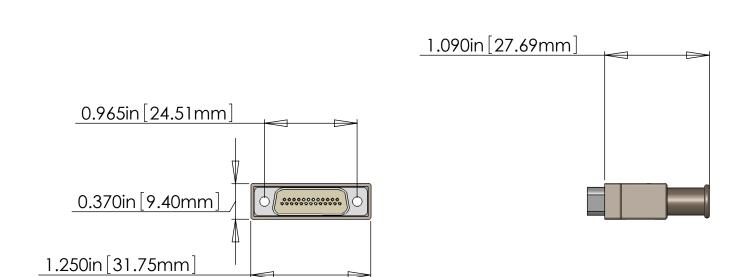


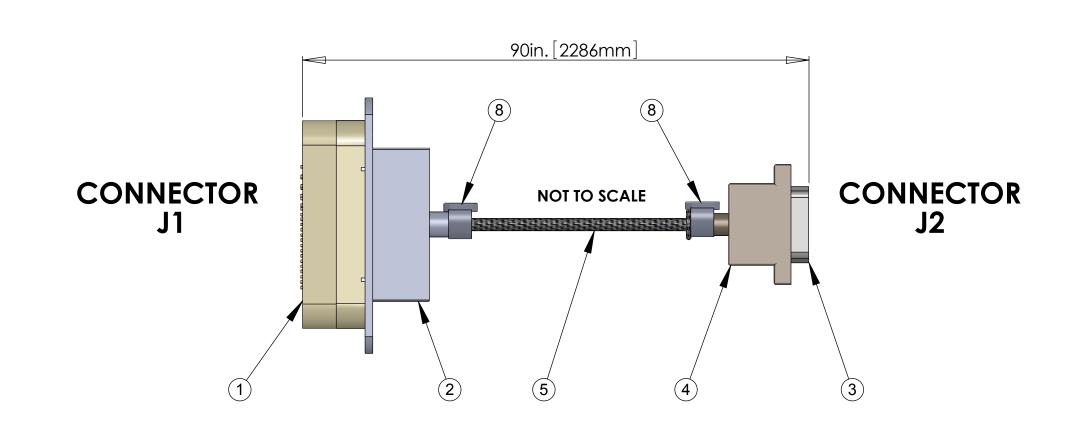
2



## **CONNECTOR**







DATE

DCN#

DRAWING TREE #

CABLE NAME	B25 M/S1-90- COND	TWISTED	LENGTH	FROM	TC
CABLE NAME	WIRE ID	PAIR	*	FKO/W	
V25G-90	25 COND. CABLE	(12 TOTAL)	90 in.	Conn. J1	Conr
C1	SHIELD (COPPER BRAID)		90 in.	PIN 1, SHIELD & SHELL	PIN SHIEL SHE
	W1	SINGLE WIRE	90 in.	PIN 1, SHIELD & SHELL	PIN SHIEL SHE
	W2	TD 1	90 in.	PIN 2	PIN
	W14	TP-1	90 in.	PIN 14	PIN
	W3	TD O	90 in.	PIN 3	PIN
	W15	TP-2	90 in.	PIN 15	PIN
	W4	TP-3	90 in.	PIN 4	PIN
	W16		90 in.	PIN 16	PIN
	W5	TP-4	90 in.	PIN 5	PIN
	W17		90 in.	PIN 17	PIN
	W6	TD 5	90 in.	PIN 6	PIN
	W18 TP-5	90 in.	PIN 18	PIN	
	W7	TD /	90 in.	PIN 7	PIN
	W19	TP-6	90 in.	PIN 19	PIN
	W8	TD 7	90 in.	PIN 8	PIN
	W20	TP-7	90 in.	PIN 20	PIN
	W9	TP-8	90 in.	PIN 9	PIN
	W21		90 in.	PIN 21	PIN
	W10	TP-9	90 in.	PIN 10	PIN
	W22		90 in.	PIN 22	PIN
	W11	TP-10	90 in.	PIN 11	PIN
	W23		90 in.	PIN 23	PIN
	W12	TD 11	90 in.	PIN 12	PIN
	W24	TP-11	90 in.	PIN 24	PIN
	W13	TD 10	90 in.	PIN 13	PIN
	W25	│ TP-12 ├	90 in.	PIN 25	PIN

V-DB25 M/S1-90-μD25 F/S1 STANDARD USE FOR THIS CABLE SUBSYSTEM STANDARD USE AIR/VAC

IN-VAC

QUAD SUSPENSION UIM

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	WISE SPECIFIED)		CALIFORNIA INICTITUTE OF TECHNICIOCY		CUSTOM CABLE SPECIFICATION V25G-90					
DIMENSIONS ARE IN	2. KLMOVE ALE STAKT LOGES, K.UZ MIN.		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		GY CUSTOM CABLE SPECIFICATION V25G-9 V-DB25 M/S1-90-μD25 F/S1				V23G-70	J	
TOLERANCES:	3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTH	HETIC, FULLY WATER SOLUBLE	SYSTEM	SUB-SYSTEM	DESIGNER			SIZE	DWG. NO.		REV.
.XX ± .XXX ±	AND FREE OF SULFUR, SILICONE, AND CHLORIN				DRAFTER	E. BROWN	SEP/26/2011	D	LIGO-I	01002521-	<b>v</b> 3
ANGULAR±°	MATERIAL	FINISH	NEXT ASSY	·	CHECKER						
		μinc	h		APPROVAL			SCAL	E: NONE PROJECTION	:	HEET 1 OF 1

SUS