DXXXXXXX-VY, S/N 001. VIBRATORY TOOL MAY BE USED. 6. APPROXIMATE WEIGHT = X.XXX LB.

CHARACTERS.

7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364

EXAMPLE:

8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

9. ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4

NOTES 9, 10, 13 and 14 DO NOT APPLY TO THIS PART

11. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

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

13. PART WILL BE PORCELAIN COATED PER LIGO SPECIFICATION E1000083 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.

14. <u>DIMENSIONS APPLY BEFORE PORCELAIN COATING UNLESS SPECIFIED.</u>

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 OTHERWISE NOTED.

1.056in 26.82mm 1.400in 35.56mm VENT HOLE ø 0.125 in. NO MOUNTING FLANGE **PLAIN PEEK** (NO EARS) −PIN 2 __PIN 1 \emptyset 0.280in 7.11mm 0.400in 10.16mm #1-72 x 0.45" **FILLISTER HEAD** \emptyset 0.240in 6.10mm STAINLESS STEEL **∅ 0.188in** | **4.78mm** | 0.500in 12.70mm MACHINE SCREW x4 LOCATIONS 20000 #4-40 x 0.305" **HEX SOCKET HEAD** 1.142in 29.01mm STAINLESS STEEL 0.050in 1.27mm **VENTED JACKSCREW** 1.312in 33.32mm 0.375in 9.53mm **x2 LOCATIONS** 1.630in 41.40mm 2.072in 52.63mm PEEK OVERBRAID **COPPER BRAID** (INSULATOR) 1 CONDUCTOR (SHIELD) **2 CONDUCTOR 14 AWG**

	BILL OF MATERIALS								
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH					
1	TICOR #TS0148-15C003BS1-188	DB3 FEMALE CONNECTOR (J1) FOR UHV (PEEK)	1						
2	OR EQUIVALENT **	DB3 CONNECTOR BACK SHELL (NO EARS) FOR UHV (STAINLESS) WITH Ø0.188" i.d. PORT	1						
3	94B8812	CRIMP PINS (J2, J3) HARTING # 09 15 000 6126 NEWARK # 94B8812	2						
4	C1	2 COND. (2 WIRES + SHIELD) CABLE WITH (5) COPPER BRAID (SHIELD) (6) AND PEEK OVERBRAID	1						
5	CONTINENTAL PART #24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART # 24x3x40BC	1	40in.					
6	PEEK BRAID PART #6759	PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	1						
7	SPACER	3/16" SPACER 1/4" LENGTH 0.115" i.d.	1						
8	GLENAIR # 600-052 or BAND-IT # A10086								

* NOTE: THE OVERALL LENGTH IS MEASURED FROM PIN TIP (3 PIN) TO PIN TIP (CRIMP PINS) OF THE CABLE. THE OTHER MEASUREMENT IS SPACER TO PIN TIPS (CRIMP PINS). USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS.

** NOTE: SEE THE "TICOR CONNECTOR PART NUMBER BUILDER" DCC#D1000219 FOR DETAILS ON THIS PART NUMBER.

NOTES: (UNLESS OTHERWISE SPECIFIED)

OVERALL CABLE O.D. WILL BE 0.240 IN.

A. MATERIAL: a. CONNECTOR SHELL - PEEK VICTREX 450GL30.

b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.

c. CONTACTS - BERYLLIUM COPPER ALLOY C17300,

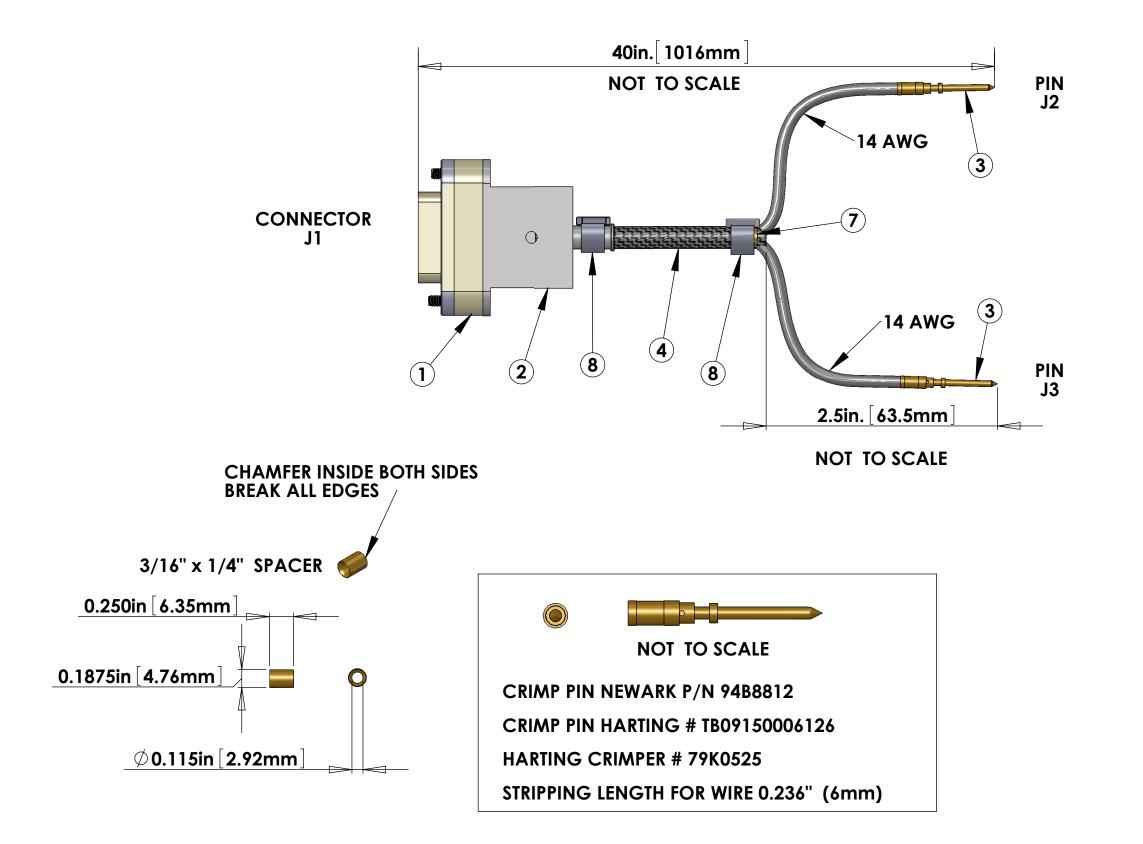
0.000050 MIN. GOLD OVER NICKEL.

d. HARDWARE: STAINLESS STEEL, PASSIVATED. e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO.

CABLE 2 COND. 14 AWG, (STRANDED) WITH 2 LAYERS OF KAPTON TAPE. OVERALL 40AWG COPPER BRAID 50% COVERAGE - SUPPLIED BY LIGO. OVERALL PEEK BRAID MIN. 50% COVERAGE.

C. CONNECTORS WILL BE SUPPLIED WITH HARDWARE. SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.

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



GLENAIR CLAMPING **BANDS # 600-052** (BAND-IT # A10086) x2 LOCATIONS

V3A-40 C V-DB			CIRCUIT SU 94B8812 N		
CABLE NAME	WIRE NAME	WIRE SIZE	LENGTH *	FROM	ТО
V3A-40					
	SHIELD	COPPER Braid		J1 PIN 1	END O
	W1	14 AWG	40in.	J1 PIN 2	J2
	W2	14AWG	40in.	J1 PIN 3	J3

V-DB3	F/S1-40-2_PII	N-94B8812 M/X
ST	ANDARD USE FO	R THIS CABLE
SUBSYSTEM	AIR/VAC	STANDARD USE
SEI	IN-VAC	FROM TABLE TO ISI ACTUATOR

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		7/1111	CALIFORNIA INICTITUTE OF TECHNICIOCY	PART NAM	ΛE				
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINE ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PAR		LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CU	ISTOM	CABLE	SPE	CIFICATION	V3A-40
TOLERANCES:	3. DO NOT SCALE FROM DRAWING.		SYSTEM	SUB-SYSTEM	DESIGNER	B. ABBOTT	JUN/29/2012 SIZE	DWG.	NO.	REV.
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FU SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORIN			SEI	DRAFTER	E. BROWN	JUN/29/2012	D'	1100150	v/3
	MATERIAL	FINISH	NEXT ASSY		CHECKER				1100130	V J
ANGULAR±°	Material <not specified=""></not>		μinch		APPROVA	L	SCAL	. E :]:]	PROJECTION:	SHEET 1 OF 1