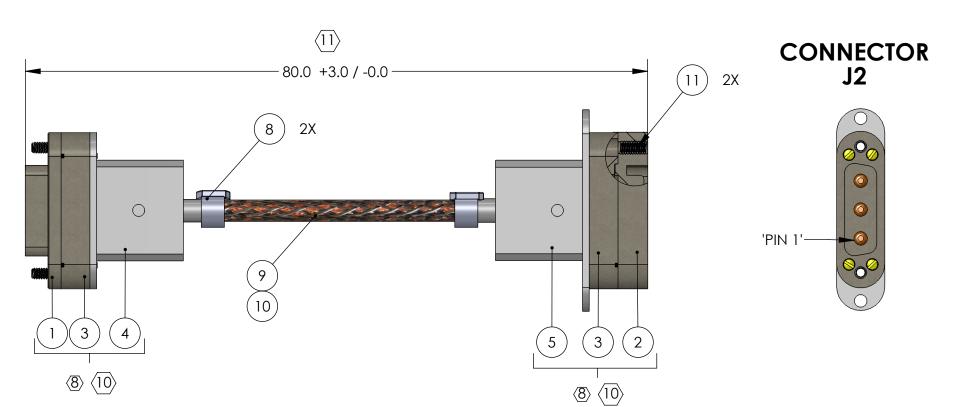
5. CABLE IDENTIFICATION: IDENTIFY PER STATEMENT OF WORK. ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4 7. ALL HELI-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS, USE NITRONIC 60 THREADED INSERTS. $\langle 8 \rangle$ MATERIAL: a. J1 CONNECTOR SHELL - PEEK VICTREX 450GL30. b. J2 CONNECTOR SHELL - PEEK VICTREX 450GL30.
c. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
d. CONTACTS - BERYLLIUM COPPER ALLOY C17300, 0.000050 MIN. GOLD OVER NICKEL. e. HARDWARE: STAINLESS STEEL, PASSIVATED. —COPPER BRAID (SHIELD) f. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED. —PEEK OVERBRAID CONNECTOR J1 (9) CABLE: 2 COND. 14 AWG, (STRANDED), WITH 2 LAYERS OF KAPTON TAPE -2 CONDUCTOR 14 AWG OVERALL 40AWG COPPER BRAID 50% COVERAGE. OVERALL PEEK BRAID MIN. 50% COVERAGE. OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN. **CABLE DETAIL** G $\langle 10 \rangle$ CONNECTORS WILL BE SUPPLIED WITH HARDWARE. LENGTH OF SCREWS SHOULD BE THE PROPER LENGTH FOR MATING. $\langle 11 \rangle$ Indicated Length is from Pin Tip to Pin Tip. Use appropriate Length to -'PIN 1' COMPENSATE FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH. $\sqrt{12}$ indicated dimensions shown for reference only. V-DB3 F/S1 -80-DB3 M/S1 STANDARD USE FOR THIS CABLE SUBSYSTEM AIR/VAC STANDARD USE SEI IN-VAC FROM FLANGE TO TABLE



DCN#

E1200711-v1

DRAWING TREE #

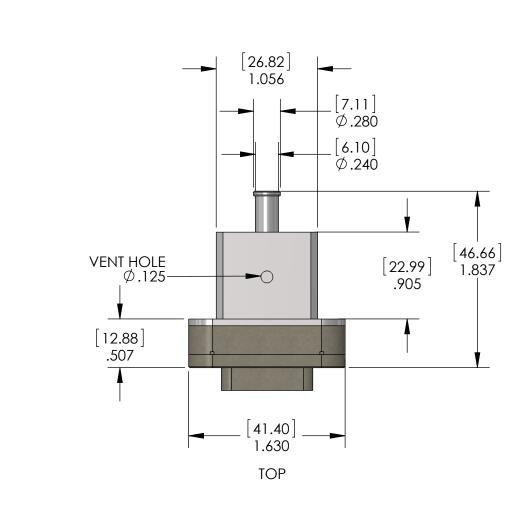
REV.

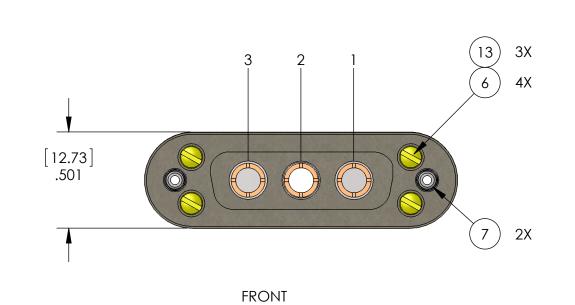
DATE

17 OCT 2011

19 JUL 2012

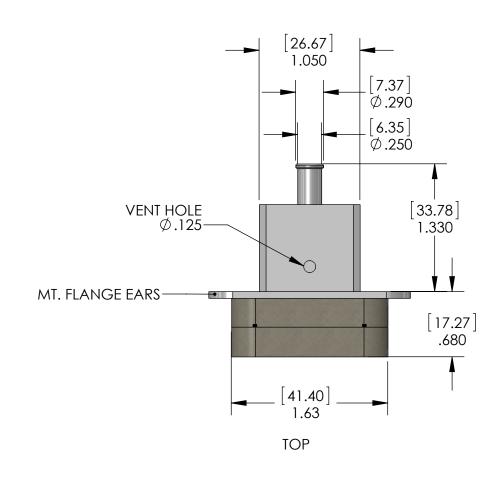


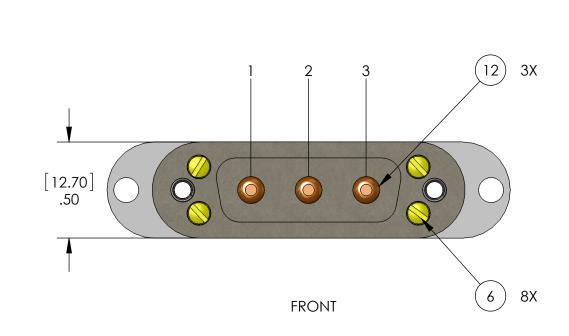




SEE LIGO D0901301, BSC ISI SYSTEM SCHEMATIC FOR REFERENCE.

CONNECTOR 'J2' (8) (10) (12)





NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)			7/1111	CALLEODALIA INICTITUTE OF T	FOUNDLOCY
DIMENSIONS ARE IN INCHES	1. INTERPRET DRAWING PER ASME Y14.5-1994 2. REMOVE ALL SHARP EDGES, .005015. FOR ALL EDGES APPROXIMATLEY R.02 FOR SHEET	MACHINED PARTS. ROUND	LIGO	CALIFORNIA INSTITUTE OF T MASSACHUSETTS INSTITUTE	
TOLERANCES:	3. DO NOT SCALE FROM DRAWING.		SYSTEM		SUB-SYSTEM
.XX ± .10 .XXX ± .005	4. ALL MACHINING FLUIDS MUST BE FULLY SYN SOLUBLE AND FREE OF SULFUR, SILICONE, AN		A	DVANCED LIGO	SEI
	MATERIAL	FINISH	NEXT ASSY		
ANGULAR ± .5°	N/A	N/A µ	iinch	N/A	

V3B-80 CABLE ASSEMBLY CIRCUIT SUMMARY V-DB3 F/S1-80-DB3 M/S1							
FROM		TO					
'J1'		'J2'					
PIN	WIRE NAME	PIN	REMARKS				
1	SHIELD	1	COPPER BRAID				
2	WIRE 1	2	-				
3	WIRE 2	3	-				

14		WIRE, 14 AWG	SEE NOTE 9	A/R				
13	038-5001-0812 TICOR OR EQ.	SIZE 08 SOCKET CONTACT, 12 CRIMP BARREL	SEE NOTE 8	3				
12	037-5001-0812 TICOR OR EQ.	SIZE 08 PIN CONTACT, 12 CRIMP BARREL	SEE NOTE 8	3				
11	1185-04EN-336	HELICOIL, 4-40 X .336 LG., NITRONIC60	NITRONIC 60	2				
10	6759	PEEK OVERBRAID, 50% COVERAGE MIN.	ZEUS, .016 BLK PEEK DRAWN MONOFILAMENT	A/R				
9	24X3X40BC CONTINENTAL CORDAGE	1/8 DIA. COPPER BRAID	COPPER	A/R				
8	600-052 GLENAIR OR EQ.	BRAID CLAMPING BAND, .24 WIDE	SSTL	2				
7	013-2702-0000 TICOR OR EQ.	SCREW, SHC, 4-40 X .305 LG., VENTED		2				
6	013-2701-0001 TICOR OR EQ.	SCREW, FILLISTER HEAD, 1-72 X .450 LG., SLOTTED		8				
5		UHV DB3 CONNECTOR BACKSHELL W/ EARS		1				
4	040-2724-1501 TICOR OR EQ.	UHV CONNECTOR BACKSHELL	SEE NOTE 8	1				
3	034-1002-1503 TICOR OR EQ.	UHV CONTACT RETAINER, SUBD9, SHIELDED		2				
2	034-1006-15503 TICOR OR EQ.	UHV CONNECTOR INTERFACE, SUBD9, SHIELDED (MALE)		1				
1	034-1001-1503 TICOR OR EQ.	UHV CONNECTOR INTERFACE, SUBD9, SHIELDED (FEMALE)		1				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.				
	PARTS LIST							

17 OCT 2011 SEE DCC

CUSTOM CABLE SPECIFICATION, V3B-80

SEE DCC | SCALE: NTS | PROJECTION:

PART NAME

DESIGNER

APPROVAL

E.BROWN

SEE DCC

DRAFTER