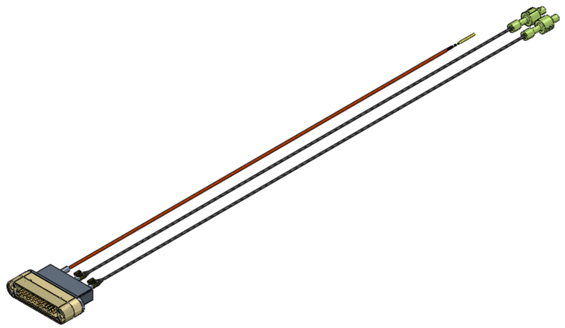
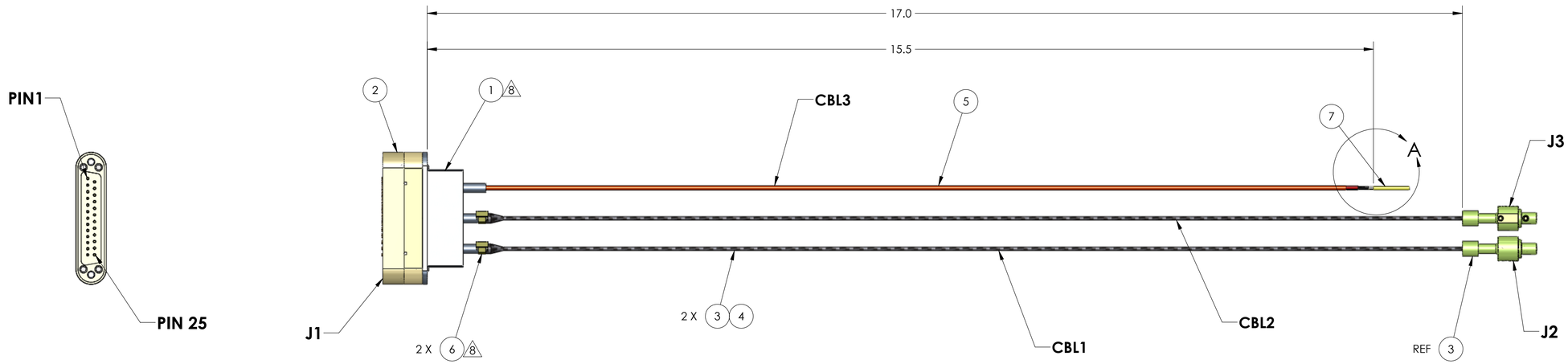
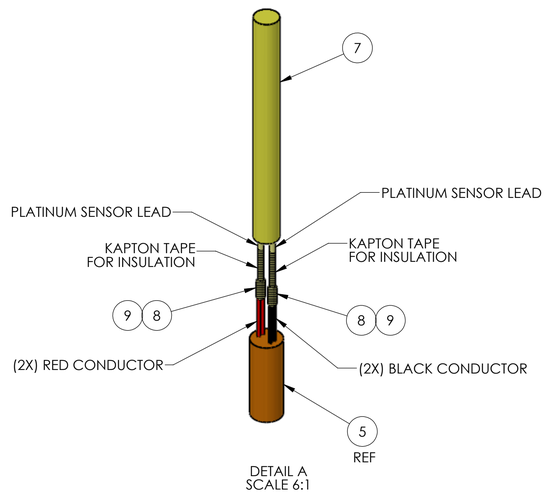
NOTES CONTINUED:

5. BAG AND TAG WITH DRAWING PART NUMBER, REVISION FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. EXAMPLE: DXXXXXXX-VY, TYPE-XX, S/N XXX
6. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED.
7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
8. BRAID OF ITEM 3 MUST BE CONNECTED TO PIN 1 AND BACK SHELL OF CONNECTOR J1 USING AN ELECTRICALLY CONDUCTIVE AND VACUUM COMPATIBLE MATERIAL .(SEE LIGO SPEC. E0900364)
9. ITEMS 1, 2 ,4,5 AND HARDWARE WILL BE PROVIDED BY LIGO, CALIFORNIA INSTITUTE OF TECHNOLOGY.
10. ALL JOINTS SHOULD BE CRIMPED, NO OTHER FORM OF JOINT IS ALLOWED WITHOUT THE APPROVAL OF LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY.
11. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NOT WELD REPAIRS OR PLUGS UNLESS APPROVED IN ADVANCE IN WRITING BY LIGO, REFER TO LIGO-E0900364.
12. NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. IN GENERAL WELD REPAIRS AND PRESS FIT INSERT REPAIRS ARE NEVER ACCEPTABLE; THE MATERIAL SHOULD BE MADE WITH VIRGIN MATERIAL. SPECIAL CIRCUMSTANCES CAN BE REVIEWED IF / WHEN BROUGHT TO THE ATTENTION OF LIGO CONTRACTING OFFICER'S REPRESENTITIVE (COTR) THROUGH A MATERIAL REVIEW BOARD (MRB) PROCESS, REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
v1	4-AUG-2010	-	-
v2	24 AUG-2010	-	-
v3	26-AUG-2010	-	-
v4	29-SEPT-2010	-	-
v5	07-OCT-2010		
v6	8-NOV-2010	E1000700	E1000699







UPPER RING HEATER CABLE CIRCUIT SUMMARY					
CABLE	TWISTED PAIR	CON. WIRE ID	FROM	TO (J1)	
CBL1	-	CBL1-SHIELD	SHELLL (J2)	PIN1 & SHELLL	8
	CBL1-TP1	W1-CBL1-1	J2	PIN 8	
		W2-CBL1-2		PIN 9	
	CBL1-TP2	W3-CBL1-3		PIN 10	
		W4-CBL1-4		PIN 11	
CBL2	-	CB2L-SHIELD	SHELL (J3)	PIN 1 & SHELL	8
	CBL2-TP1	W1-CBL2-1	J3	PIN 20	
		W2-CBL2-2		PIN 21	
	CBL2-TP2	W3-CBL2-3		PIN 22	
		W4-CBL2-4		PIN 23	
CBL3	-	W1-RED-1	ITEM 7	PIN 12	
		W2-RED-2		PIN 13	
		W3-BLK-1		PIN 24	
		W4-BLK-2		PIN 25	

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
9	110797	SOLDER FLUK. ACCU-GLASS	SEE MSDS	TRACE		1/2 Oz BOTTLE
8	110796	UHV SOLDER. ACCU-GLASS	SEE MSDS	TRACE		1 IN
7	1PT100KN1515CLA	CERAMIC WIRE-WOUND PLATINUM RTD ELEMENT	N/A	1		1
6	A31189	1/8IN TIE DEX MICRO BAND. WTG GROUP	STAINLESS STEEL	2		2
5	EXGG-4CU-26S	EXXGG SERIES 4 CONDUCTOR, RTD WIRE. OMEGA	COPPER	17 IN		17 IN
4	111167	PEEK BRAIDED SHIELDING, .187IN ID. ACCU-GLASS	PEEK	19 IN		19 IN
3	602258	CUSTOM CABLE ASSEMBLY. ACCU-GLASS	COPPER	19 IN		19 IN
2	LIGO CUSTOM	DB25 MALE CONNECTOR FOR UHV.	PEEK	1		1
1	LIGO CUSTOM	DB25 CONNECTOR BACKSHELL ,VENT HOLE, NO FLANGE	STAINLESS STEEL	1		1

PARTS LIST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES

TOLERANCES:
.XX ± .10
.XXX ±

ANGULAR ± °

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.

MATERIAL: N/A
FINISH: N/A µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM: ADVANCED LIGO
SUB-SYSTEM: AOS
NEXT ASSY: D1001517

PART NAME: Cable Assy, Upper Heater

DESIGNER	A.Cole	7/16/2010	
DRAFTER	A.COLE	7/26/2010	
CHECKER	S. O'CONNOR	07/26/2010	
APPROVAL	M. JACOBSON	7/26/2010	

SIZE: D
DWG. NO.: D1001518
REV.: v6
SCALE: NONE
PROJECTION:
SHEET 1 OF 1

D1001518_Cable Assy, Upper Heater, PART PDM REV: K-018, DRAWING PDM REV: K-037