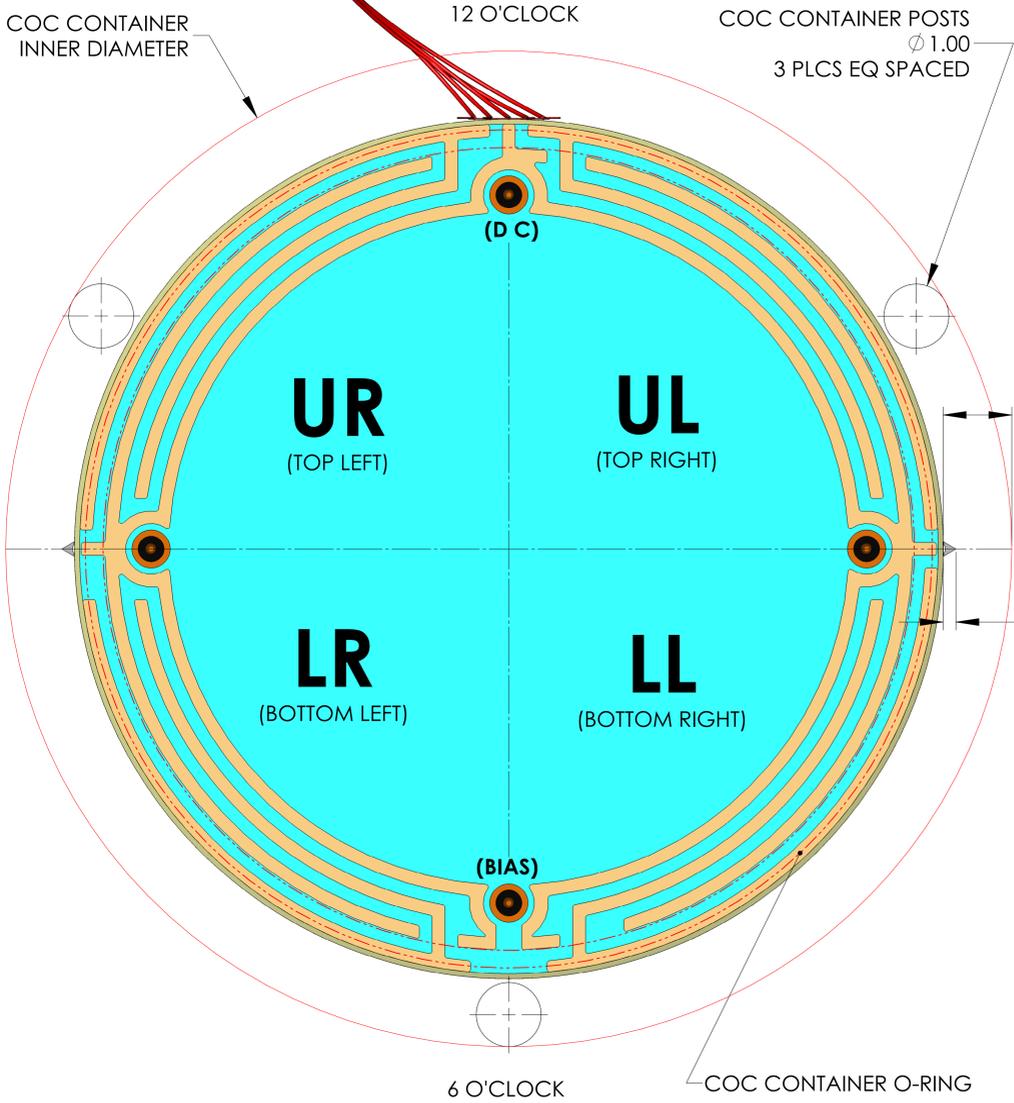


# CP-X

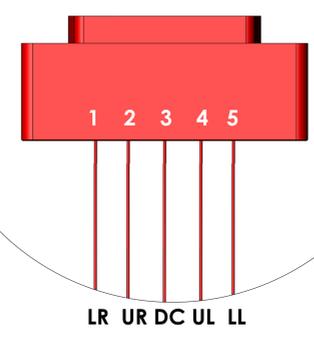
(SEE SHEET 2 FOR CP-Y)

REV.	DATE	DCN #	DRAWING TREE #
v1	4/23/10	E1000139	
v6	12 AUG 2014	E1400315-x0	
-	-	-	

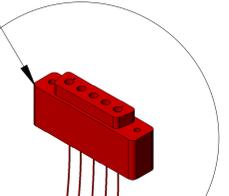
QUADRANT CONVENTION DEFINITION	
SUS	COC
UL	TOP RIGHT
LL	BOTTOM RIGHT
UR	TOP LEFT
LR	BOTTOM LEFT



## FLEX CONNECTOR ASSY. (SEE LIGO D1101517 FOR REF.)

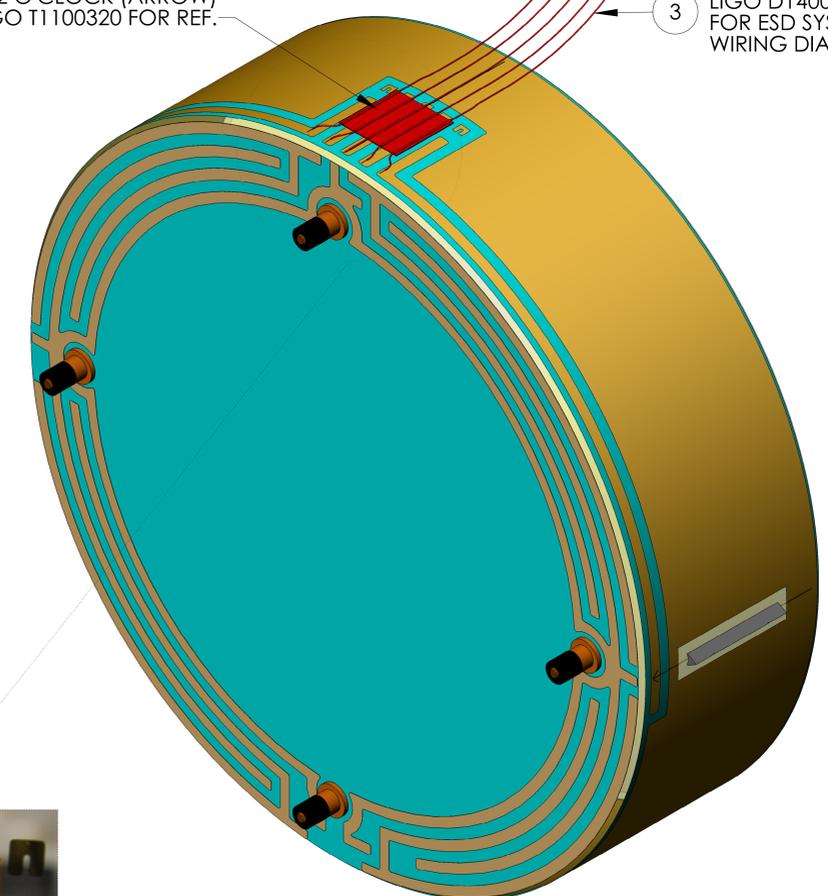
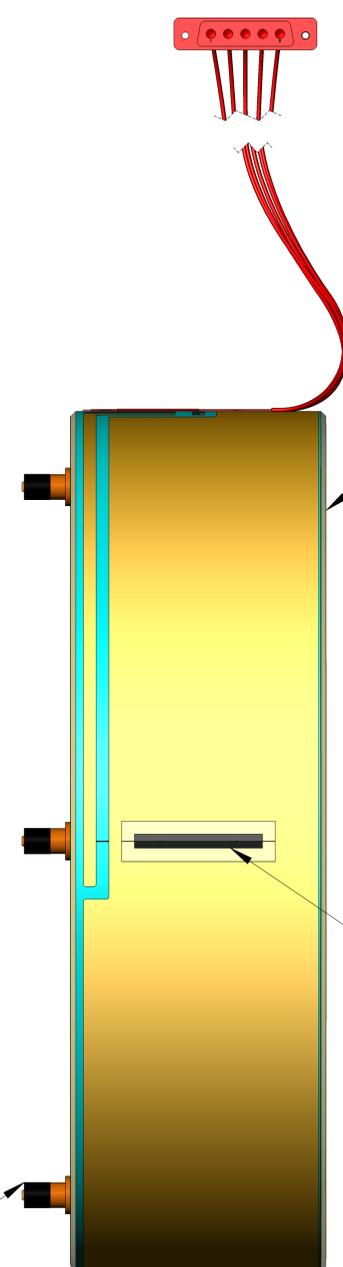


Accu-Glass FEMALE SOCKET  
P/N 25D-5CX-PKS

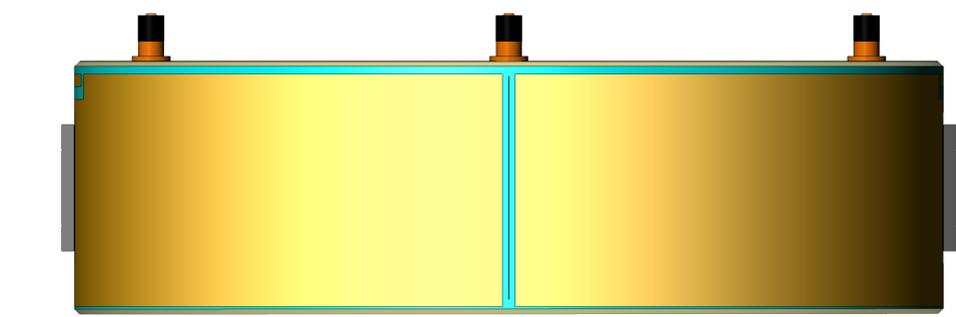
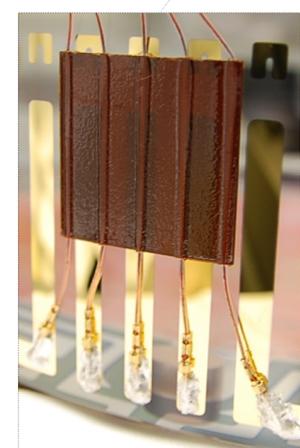


FLEX CONNECTOR POSITION:  
12 O'CLOCK (ARROW)  
SEE LIGO T1 100320 FOR REF.

REFER TO  
LIGO D1400177  
FOR ESD SYSTEM  
WIRING DIAGRAM



## ISO VIEW



2. SEE LIGO E1300745, FOR PROCEDURE TO TRANSFORM CP-X TO CP-Y.

1 FOR COC TCP SUBSTRATE SERIAL NO. DETAILS, PLEASE REFER TO COC NEBULA PAGE AT:  
<https://galaxy.ligo.caltech.edu/optics/>

## CPX CONNECTOR TO BARREL CONNECTIONS (REFER TO T1 100320 FOR SOLDERING DETAILS)

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
5	D1003106	gLIGO, SUS, QUAD, TCP BUMP STOP	N/A	4
4	D1002225	gLIGO, FLEX CIRCUIT, ESD	N/A	1
2	D080750	ERM WIRE BREAK-OFF PRISM	316 SSSL	2
1	D1000979	THIN COMPENSATION PLATE (TCP) SUBSTRATE	REFER TO E080037	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
		ADVANCED LIGO		gLIGO, TCP OPTICS WITH PRISM ASSEMBLY	
		SUB-SYSTEM COC		DESIGNER K. BUCKLAND 4/23/10	
		NEXT ASSY D0900445, D0900495, D0901140, D0901149		DRAFTER K. BUCKLAND 4/23/10	
		MATERIAL N/A		CHECKER C. TORRE 5/4/10	
		FINISH N/A μinch		APPROVAL G. BULLINGSLEY 5/4/10	
		SCALE: 1:1		PROJECTION:	
		SHEET 1 OF 2		REV. v6	

# CP-Y

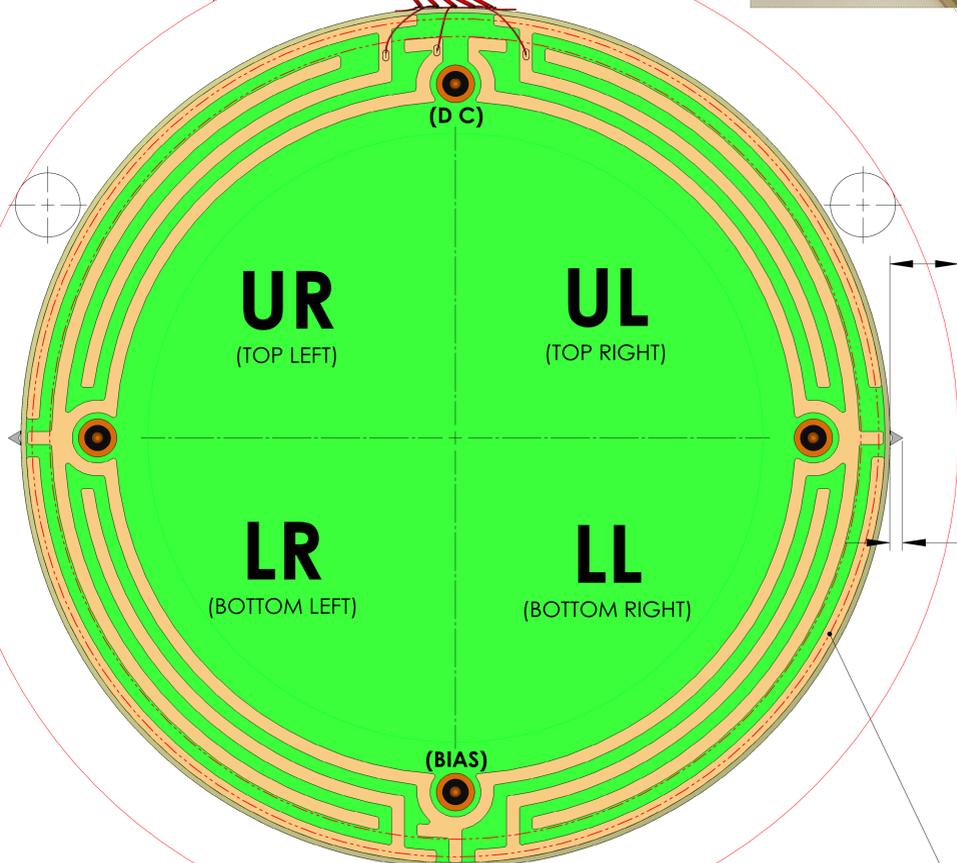
(SEE SHEET 1 FOR CP-X)

## BARREL-TO-BARREL CONNECTIONS (REFER TO T1100320 FOR SOLDERING DETAILS)

QUADRANT CONVENTION DEFINITION	
SUS	COC
UL	TOP RIGHT
LL	BOTTOM RIGHT
UR	TOP LEFT
LR	BOTTOM LEFT

COC CONTAINER INNER DIAMETER

12 O'CLOCK  
(180 DEGREES FROM ARROW)

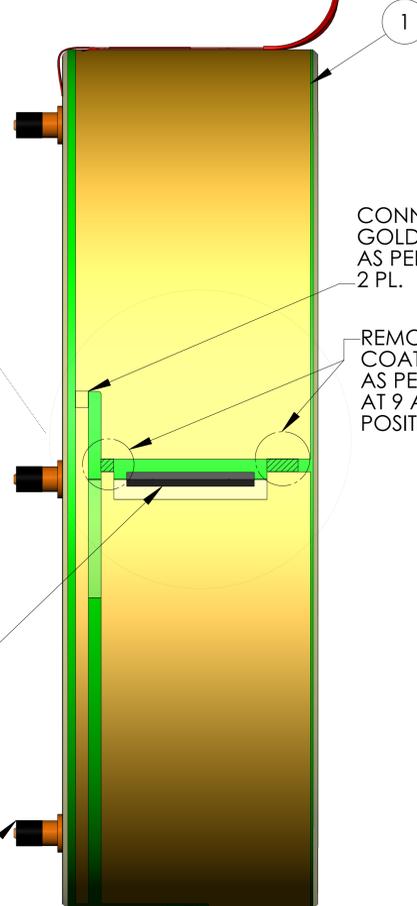
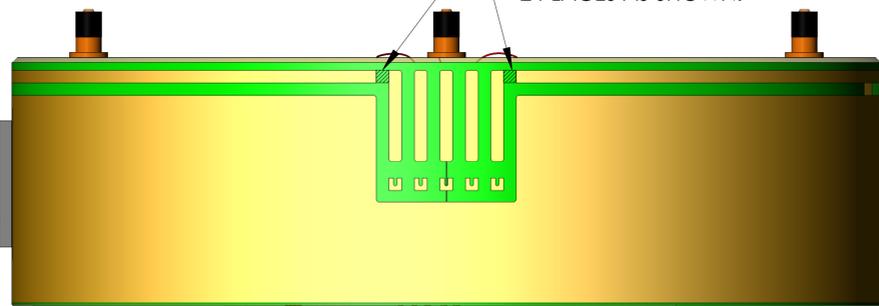


COC CONTAINER O-RING

COC CONTAINER POSTS  
[25.40]  
Ø 1.00  
3 PLCS EQ SPACED

6 O'CLOCK

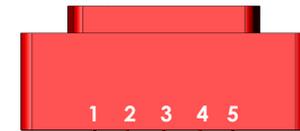
REMOVE GOLD COATING SECTIONS AS PER E1300745 AT 6 O'CLOCK POSITION. 2 PLACES AS SHOWN.



CONNECT USING GOLD FOIL AS PER E1300745 2 PL.

REMOVE GOLD COATING SECTIONS AS PER E1300745 AT 9 AND 3 O'CLOCK POSITIONS.

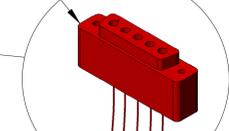
### FLEX CONNECTOR ASSY. (SEE LIGO D1101517 FOR REF.)



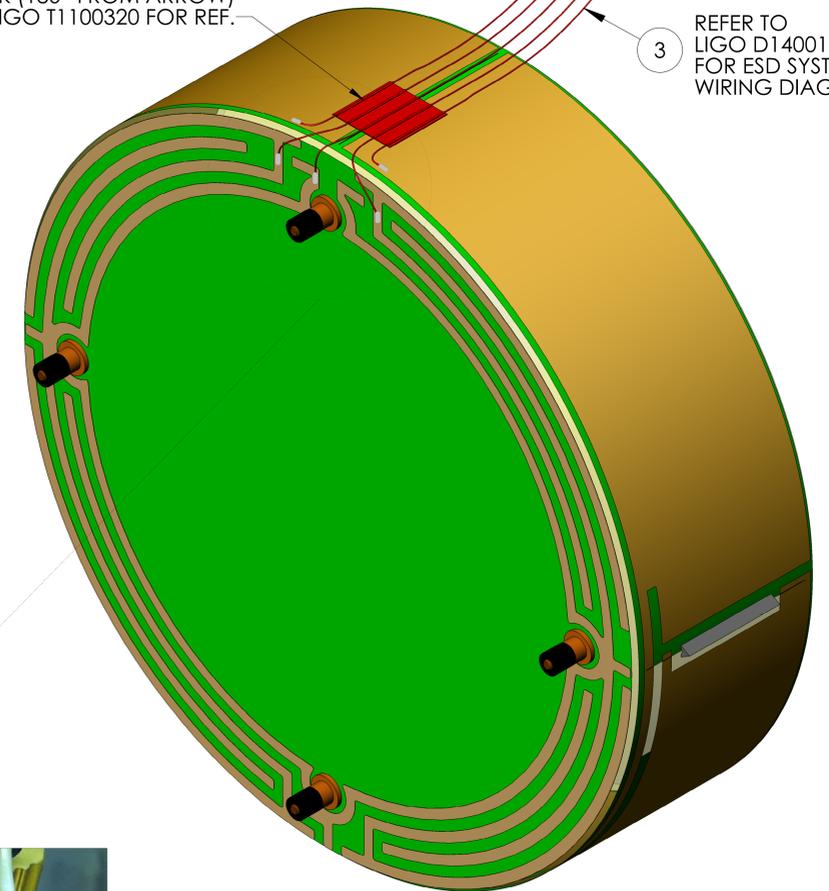
LR UR DC UL LL

FLEX CONNECTOR POSITION:  
12 O'CLOCK (180° FROM ARROW)  
SEE LIGO T1100320 FOR REF.

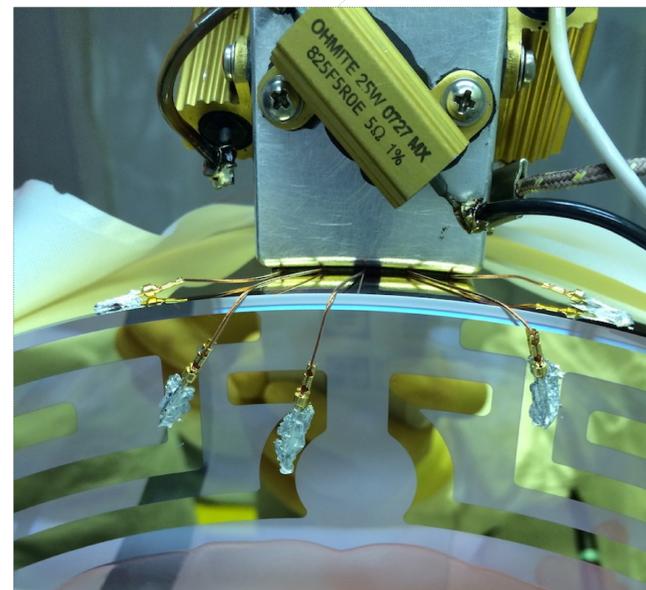
Accu-Glass FEMALE SOCKET  
P/N 25D-5CX-PKS



REFER TO LIGO D1400177 FOR ESD SYSTEM WIRING DIAGRAM



ISO VIEW



## CPY CONNECTOR TO BARREL CONNECTIONS (REFER TO T1100320 FOR SOLDERING DETAILS)

2. SEE LIGO E1300745, FOR PROCEDURE TO TRANSFORM CP-X TO CP-Y.

1 FOR COC TCP SUBSTRATE SERIAL NO. DETAILS, PLEASE REFER TO COC NEBULA PAGE AT: <https://galaxy.ligo.caltech.edu/optics/>

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
4	D1003106	αLIGO, SUS, QUAD, TCP BUMP STOP	N/A	4
3	D1002225	αLIGO, FLEX CIRCUIT, ESD	N/A	1
2	D080750	ERM WIRE BREAK-OFF PRISM	316 SSSL	2
1	D1000979	THIN COMPENSATION PLATE (TCP) SUBSTRATE	REFER TO E080037	1

**LIGO** CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE DWG. NO. **D1000980** REV. **v6**

SCALE: 1:1 PROJECTION: SHEET 2 OF 2