

Test Cable Resistance (One Way ohms)	1.2
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Air Side Flange Pins on test cable breakout board	Resistance including test cable (ohms)	Actual Resistance after test cable is removed (ohms)	Comment
3,16	42.0	39.6	Upper Heater
3,17	41.9	39.5	Upper Heater
3,18	41.9	39.5	Upper Heater
3,19	41.9	39.5	Upper Heater
4,19	42.0	39.6	Upper Heater
5,19	42.0	39.6	Upper Heater
6,19	42.0	39.6	Upper Heater
1,2	6.3	3.9	Roundtrip invac wire resistance
4,5	6.3	3.9	Roundtrip invac wire resistance
3,4	6.3	3.9	Roundtrip invac wire resistance
14,15	6.1	3.7	Roundtrip invac wire resistance
1,14	OPEN		RTD broken

9,22	42.0	39.6	Lower Heater
9,23	42.0	39.6	Lower Heater
9,24	42.0	39.6	Lower Heater
9,25	41.9	39.5	Lower Heater
10,25	41.9	39.5	Lower Heater
11,25	42.0	39.6	Lower Heater
12,25	41.9	39.5	Lower Heater
7,8	6.3	3.9	Roundtrip invac wire resistance
10,11	6.4	4	Roundtrip invac wire resistance
9,10	6.4	4	Roundtrip invac wire resistance
20,21	6.4	4	Roundtrip invac wire resistance
7,20	115.1	112.7	RTD is working

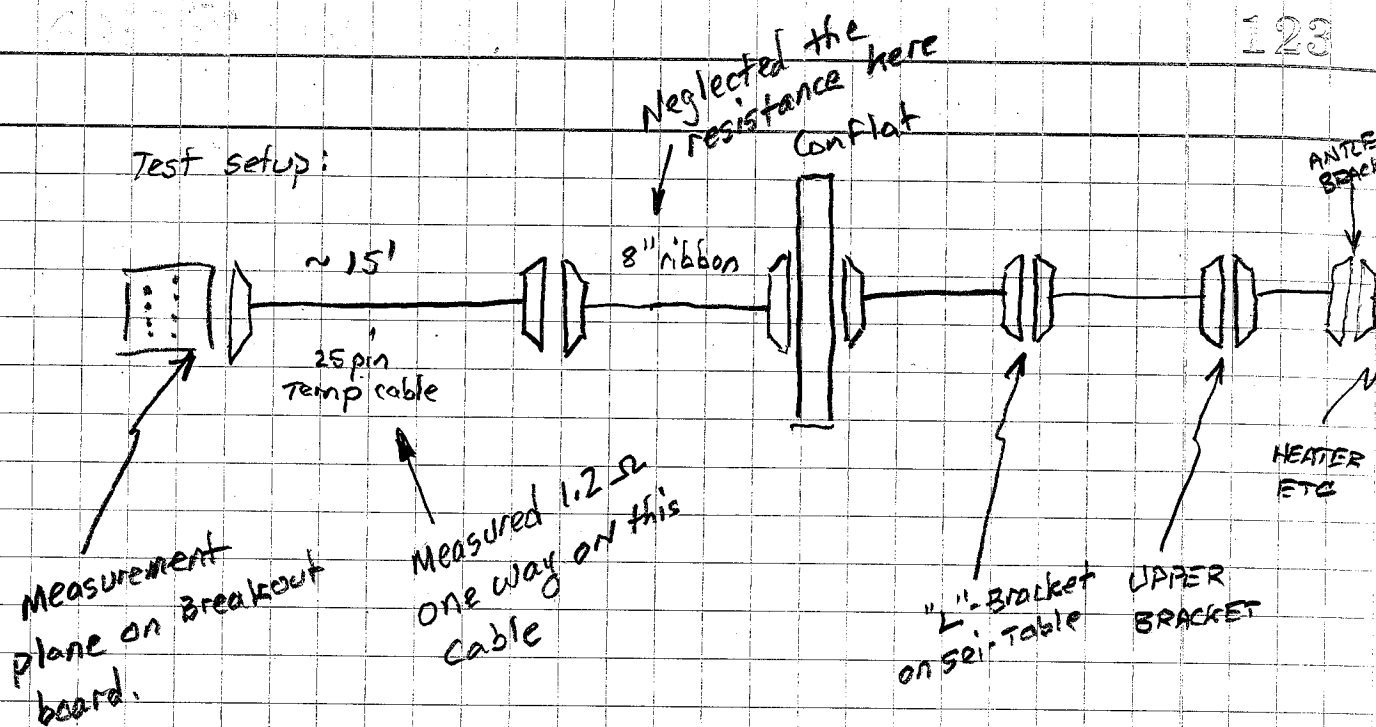
Average Heater Resistance after cable resistance is subtracted	35.6
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Average resistance of a single wire leading to the ring heater	1.96
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Actual resistance of RTD	108.8
Temperature in C calculated from platinum RTD coefficient of 0.00392	22.4

8 Dec 2011
 TCS Ring
 heater
 resistance
 check
 Thomas Vok
 Cheryl Vorvick)

Test setup:



Using FLuke 79 III

Pin Pair	Ohms	Notes
in air Flange pins		
3-16	42.0	
3-17	41.9	
3-18	41.9	
3-19	41.9	
4-19	42.0	
5-19	42.0	
6-19	42.0	
1-2 ✓	6.3	
4-5 ✓	6.3	
3-4 ✓	6.3	
4-15	6.1	
1-14	OPEN	RTD NOT ATTACHED (OK)
UPPER HEATER		
9-22	42.0	
9-23	42.0	
9-24	42.0	
9-25	41.9	
10-25	41.9	
11-25	42.0	
12-25	41.9	
7-8	6.3	
10-11	6.4	
9-10	6.4	
20-21	6.3	
LOWER HEATER		
Pins 7 - 20 = 115.1 ohms		