

Appendix 1

	Cooling temperature		Mechanics temperature		Air temperature		Barometric pressure		Humidity		Radiation monitors		Total number wires (not cooling)	Patch panel type
	Sensors	Wires	Sensors	Wires	Sensors	Wires	Sensors	Wires	Sensors	Wires	Sensors	Wires		
Barrel 1	48	192	9	18	29	58			3	18	8	24	118	3*40 pin
Barrel 2	60	240	11	22	36	72			3	18	8	24	136	2*40 pin + 2*30 pin
Barrel 3	72	288	13	26	44	88	2	8	5	30	0	0	152	4*40 pin
Barrel 4	84	336	15	30	51	102			5	30	0	0	162	2*40 pin + 3*30 pin
Total	264	1056	48	96	160	320	2	8	16	96	16	48	1624	1*40 pin + 5*30 pin
Wheel 1	16	64	4	8	8	16			1	6		0	30	1*30 pin
Wheel 2	20	80	4	8	9	18	1	4	1	6	2	6	36	1*40 pin
Wheel 3	20	80	4	8	9	18	0	0	1	6	2	6	38	1*40 pin
Wheel 4	20	80	4	8	8	16		0	1	6		0	30	1*30 pin
Wheel 5	20	80	4	8	9	18	0	0	1	6	2	6	38	1*40 pin
Wheel 6	20	80	4	8	10	20		0	1	6	2	6	40	1*40 pin
Wheel 7	16	64	4	8	9	18		0	1	6	2	6	38	1*40 pin
Wheel 8	16	64	4	8	9	18		0	1	6	2	6	38	1*40 pin
Wheel 9	12	48	4	8	9	18	1	4	0	0		0	30	1*30 pin
Total/End Cap	160	640	36	72	80	160	2	8	8	48	12	36	964	6*40 pin + 3*30 pin

Table 1. Cabling of sensors on Barrels and Wheels.

	40 pin	30 pin
Barrels	11	5
Wheels	12	6
Thermal enclosure		6
Total	23	11

Table 1. Total number of cables from inside SCT.