REVISION K

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

DO NOT SCALE FROM THIS PRINT

ARC6-XX-XX.X-XX-XX-XX-X

- No OF PAIRS: -08, -16, -24
- CABLE LENGTH: -XX.X (INCHES) (03.0[76.2] MIN)
- END 1: -LU: LATCH UP
- END 2: -LU: LATCH UP; -LD: LATCH DOWN
- CABLE STYLE: -1: 34100 (TwinAx); *-2: 3492 (TwinAx); *-3: 3492 (ThinAx)
- WIRING OPTION:
  - -2: PIN 1 TO PIN 2 (ONLY WITH END 2 -LD OPTION)
  - -3: PIN 1 TO PIN N-1 (ONLY WITH END 2 -LU OPTION)
  - -2R: PIN 1 TO PIN 2 (REVERSE POLARITY) (ONLY WITH END 2 -LD OPTION) (06.0 INCHES[152.4] MIN CABLE LENGTH)
  - -3R: PIN 1 TO PIN N-1 (REVERSE POLARITY) (ONLY WITH END 2 -LU OPTION) (06.0 INCHES[152.4] MIN CABLE LENGTH)

(* = NOT TOOLED)

TABLE 1	
NO OF PAIRS	"A"
-08	10.90 [.429]
-16	18.52 [.729]
-24	26.14 [1.029]

TABLE 2		
No. OF PAIRS	N	N-1
-08	26	25
-16	50	49
-24	74	73

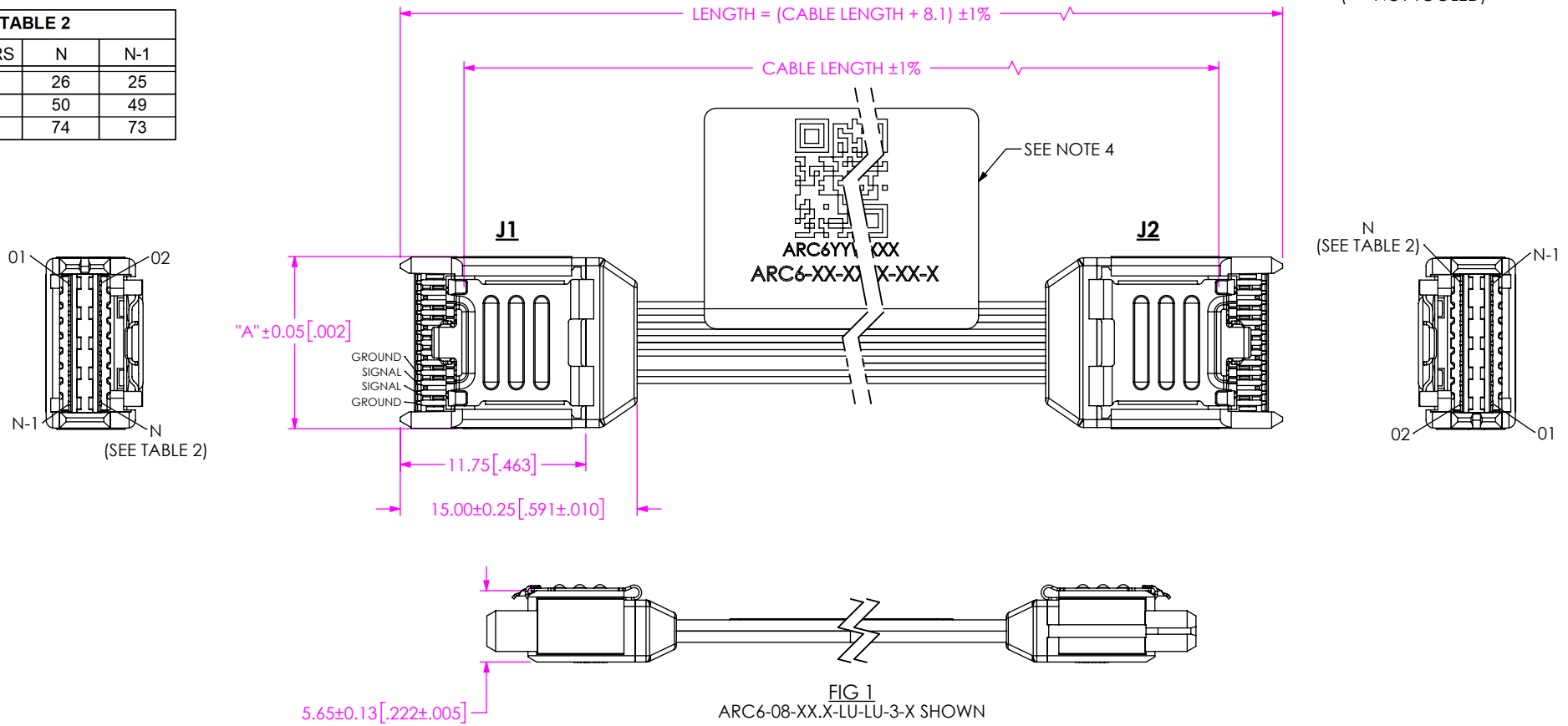


FIG 1
ARC6-08-XX.X-LU-LU-3-X SHOWN

NOTES:
1. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
3. CABLE LENGTHS OVER 40.0[1016.0] NOT SUPPORTED BY SI TEST DATA.
4. LABEL TO BE CENTERED ON CABLE AS SHOWN. LABEL TO CONTAIN:
   LINE 1 - QR CODE
   LINE 2 - SERIAL NUMBER "ARC6YYWWXXXX"
   LINE 3 - PART NUMBER "ARC6-XX-XX.X-XX-XX-XX-X"
5. "J1" TO BE LASER MARKED ON PLASTIC HOUSING FOR -2R AND -3R OPTIONS ONLY.

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MATERIAL:
INSULATOR: LCP
TERMINALS: COPPER ALLOY
PLATING: 30µ" SELECTIVE GOLD IN CONTACT AREA
LATCH: SS

DO NOT SCALE DRAWING
SHEET SCALE: 2:1

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samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION: ARC6 CABLE ASSEMBLY

DWG. NO. ARC6-XX-XX.X-XX-XX-XX-X

BY: JOE Z | 08/12/2017 | SHEET 1 OF 4

REVISION K

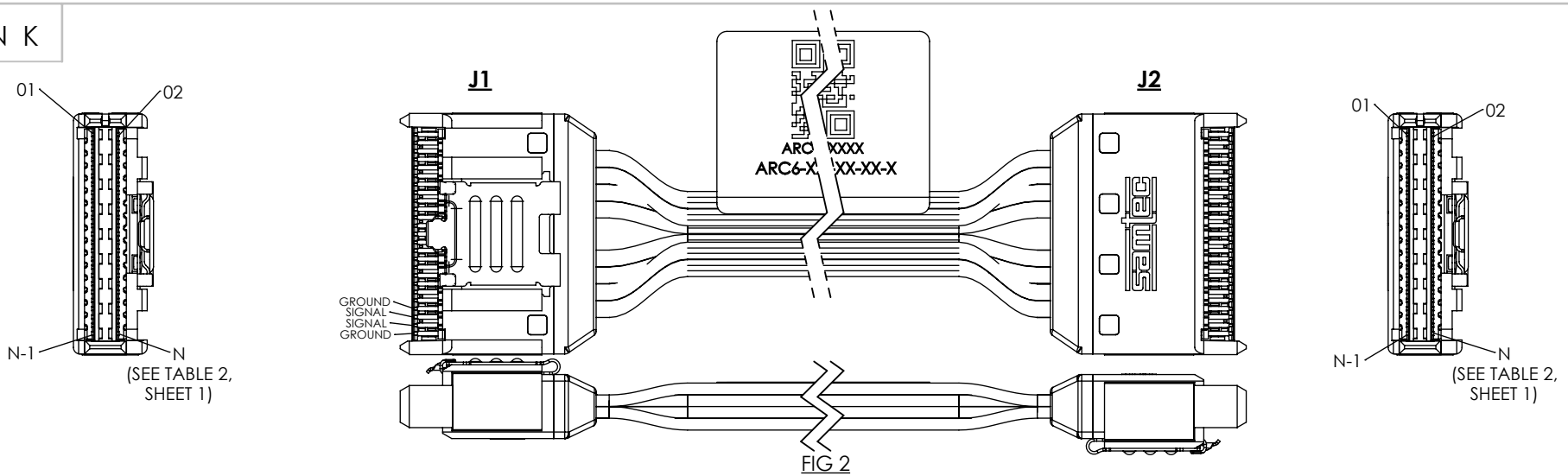


FIG 2
ARC6-16-XX.X-LU-LD-2-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

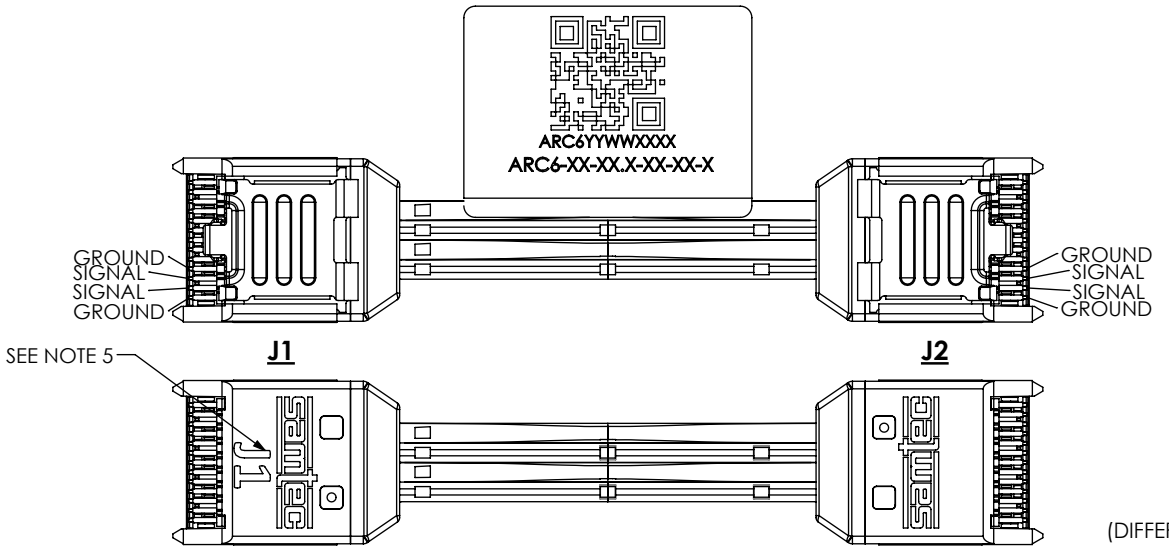


FIG 3
ARC6-08-XX.X-LU-LU-3R-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

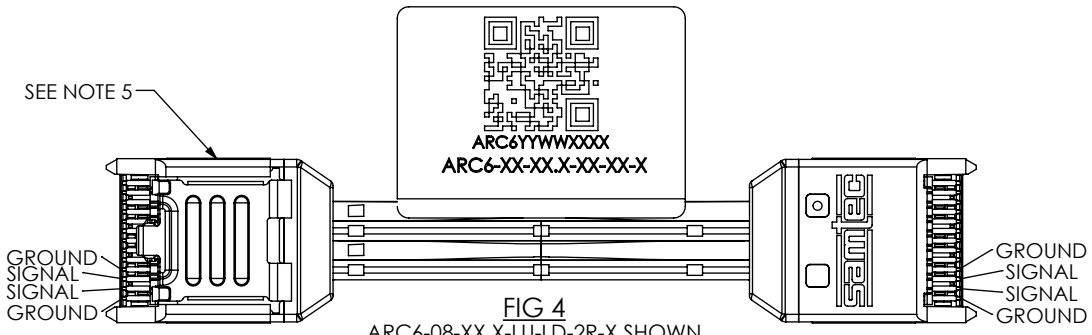


FIG 4
ARC6-08-XX.X-LU-LD-2R-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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SHEET SCALE: 2:1

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION: ARC6 CABLE ASSEMBLY

DWG. NO. ARC6-XX-XX.X-XX-XX-XX-X

BY: JOE Z 08/12/2017 SHEET 2 OF 4

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REVISION K

ARC6-08-XX.X-XX-XX-XX-X SIGNAL MAPPING

WIRING OPTION		POSITIONS																								
-2 (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	2	4	6	8	10	12	14	16	18	20	22	24	26
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	2	4	6	8	10	12	14	16	18	20	22	24	26	1	3	5	7	9	11	13	15	17	19	21	23	25
-3 (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	2	4	6	8	10	12	14	16	18	20	22	24	26
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	25	23	21	19	17	15	13	11	9	7	5	3	1	26	24	22	20	18	16	14	12	10	8	6	4	2
-2R (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	2	4	6	8	10	12	14	16	18	20	22	24	26
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	2	6	4	8	10	12	14	18	16	20	22	24	26	1	3	5	7	11	9	13	15	17	19	23	21	25
-3R (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	2	4	6	8	10	12	14	16	18	20	22	24	26
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	25	21	23	19	17	15	13	9	11	7	5	3	1	26	24	22	20	16	18	14	12	10	8	4	6	2

ALL LIKE NAMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD

ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A GND REFERENCE TYING ALL GND"S TOGETHER

ARC6-16-XX.X-XX-XX-XX-X SIGNAL MAPPING

WIRING OPTION		POSITIONS																								
-2 (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
-3 (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	49	47	45	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	50	48	46	44	42	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
-2R (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	2	6	4	8	10	12	14	18	16	20	22	24	26	30	28	32	34	36	38	42	40	44	46	48	50
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	1	3	5	7	11	9	13	15	17	19	23	21	25	27	29	31	35	33	37	39	41	43	47	45	49
-3R (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	49	45	47	43	41	39	37	33	35	31	29	27	25	21	23	19	17	15	13	9	11	7	5	3	1
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	50	48	46	44	40	42	38	36	34	32	28	30	26	24	22	20	16	18	14	12	10	8	4	6	2

ALL LIKE NAMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD

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e-Mail info@SAMTEC.com code 55322

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SHEET SCALE: 2:1

DESCRIPTION: ARC6 CABLE ASSEMBLY

DWG. NO. ARC6-XX-XX.X-XX-XX-XX-X

BY: JOE Z 08/12/2017 SHEET 3 OF 4

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REVISION K

ARC6-24-XX.X-XX-XX-XX-X SIGNAL MAPPING

WIRING OPTION		POSITIONS																																				
-2 (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
-3 (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	73	71	69	67	65	63	61	59	57	55	53	51	49	47	45	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
-2R (PIN1 TO PIN 2)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	2	6	4	8	10	12	14	18	16	20	22	24	26	30	28	32	34	36	38	42	40	44	46	48	50	54	52	56	58	60	62	66	64	68	70	72	74
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	1	3	5	7	11	9	13	15	17	19	23	21	25	27	29	31	35	33	37	39	41	43	47	45	49	51	53	55	59	57	61	63	65	67	71	69	73
-3R (PIN1 TO PIN N-1)	J1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
	NAME	GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1	PAIR		GND1
	J2	73	69	71	67	65	63	61	57	59	55	53	51	49	45	47	43	41	39	37	33	35	31	29	27	25	21	23	19	17	15	13	9	11	7	5	3	1
	J1	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74
	NAME	GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2	PAIR		GND2
	J2	74	72	70	68	64	66	62	60	58	56	52	54	50	48	46	44	40	42	38	36	34	32	28	30	26	24	22	20	16	18	14	12	10	8	4	6	2

ALL LIKE NAMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD

ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A GND REFERENCE TYING ALL GND'S TOGETHER

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DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION: ARC6 CABLE ASSEMBLY

DWG. NO. ARC6-XX-XX.X-XX-XX-XX-X

BY: JOE Z 08/12/2017

F:\DWG\MISC\MKTG\ARC6-XX-XX.X-XX-XX-XX-X-MKT.SLDDRW