

DO NOT SCALE FROM THIS PRINT

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

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

STYLE
BLANK: DP (DIFFERENTIAL PAIR)
-S: SE (SINGLE ENDED)
-M: MIXED DP & SE

CABLE STYLE
☒-1: 34100 (TwinAx)
☒-2: 3492 (TwinAx)
☒-3: 3492 (ThinAx)
□-4: 3450 (COAX)
** □-5: 3250 (COAX)
△-6: 3492 (ThinAx) & 3450 (COAX) (SEE NOTE 7)

NO OF PAIRS (DP ONLY)
-08, -16, -24
NO OF POSITIONS (-S/-M ONLY)
-13, -25, -37

CABLE LENGTH
-XX.X (INCHES)
(03.0[76.2] MIN)
(SEE NOTE 6)

END 1
-LU: LATCH UP
END 2
-LU: LATCH UP
☒ -LD: LATCH DOWN

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 RELEASED)
(☒ = ONLY AVAILABLE WITH DP STYLE)
(□ = ONLY AVAILABLE WITH -S STYLE)
(△ = ONLY AVAILABLE WITH -M STYLE)

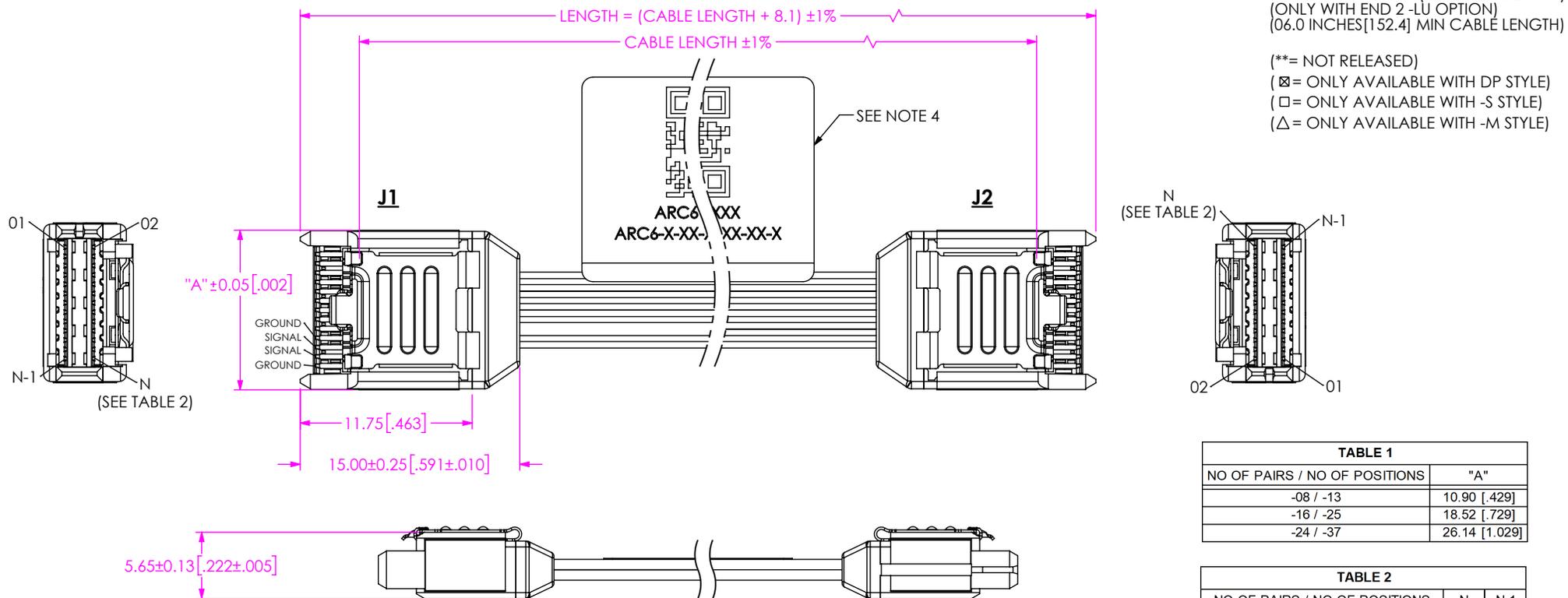


FIG 1
ARC6-08-XX.X-LU-LU-3-X SHOWN

TABLE 1	
NO OF PAIRS / NO OF POSITIONS	"A"
-08 / -13	10.90 [.429]
-16 / -25	18.52 [.729]
-24 / -37	26.14 [1.029]

TABLE 2		
NO OF PAIRS / NO OF POSITIONS	N	N-1
-08 / -13	26	25
-16 / -25	50	49
-24 / -37	74	73

NOTES:

- ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
- ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
- CABLE LENGTHS OVER 40.0[1016.0] NOT SUPPORTED BY SI TEST DATA.
- 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-X-XX-XX.X-XX-XX-XX-X"
- "J1" TO BE LASER MARKED ON PLASTIC HOUSING FOR -2R AND -3R OPTIONS ONLY.
- MAX STANDARD CABLE LENGTH IS 5 METERS.
FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM.
- FOR ADDITIONAL TWINAX/THINAX AND COAX COMBINATIONS, CONTACT HDR@SAMTEC.COM.

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MATERIAL: DO NOT SCALE DRAWING
INSULATOR: LCP SHEET SCALE: 2:1
TERMINALS: COPPER ALLOY
PLATING: 30µ" SELECTIVE GOLD
IN CONTACT AREA
LATCH: SS



520 PARK EAST BLVD, NEW ALBANY, IN 47150
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DESCRIPTION: ARC6 CABLE ASSEMBLY
DWG. NO. ARC6-X-XX-XX.X-XX-XX-XX-X

BY: JOE Z 08/12/2017 SHEET 1 OF 7

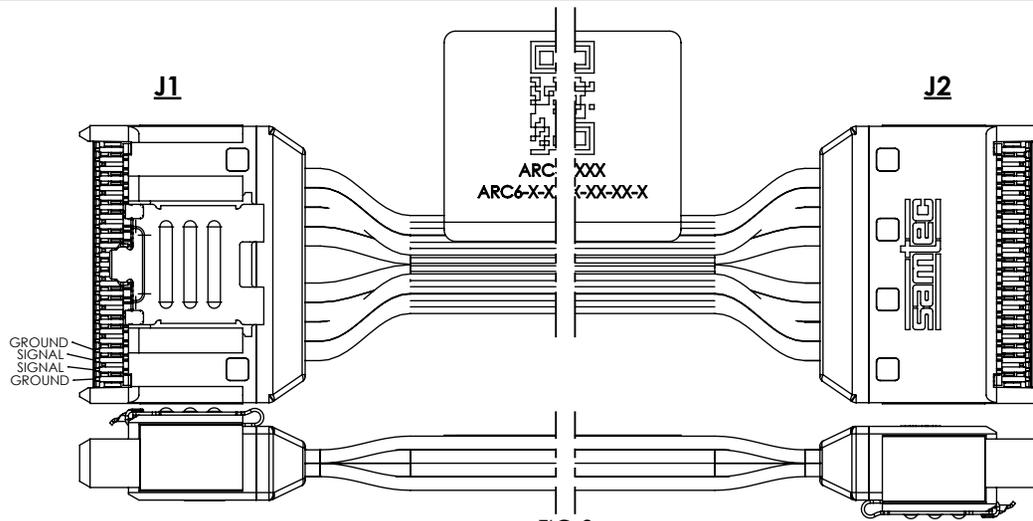
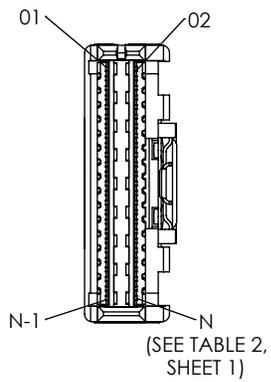


FIG 2
ARC6-16-XX.X-LU-LD-2-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

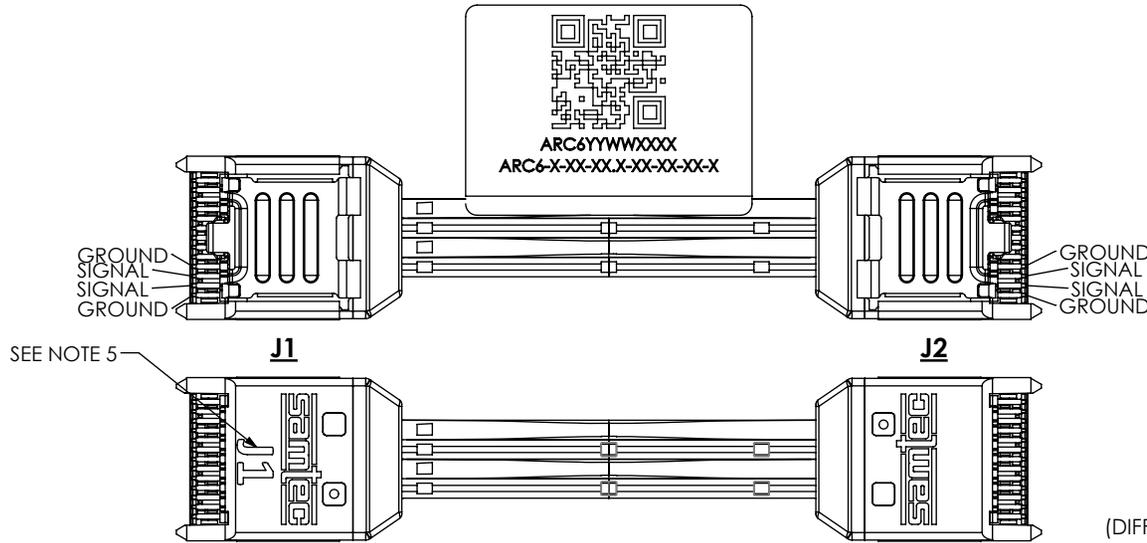
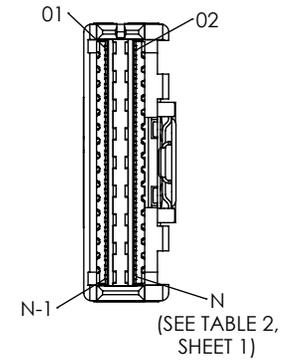


FIG 3
ARC6-08-XX.X-LU-LU-3R-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

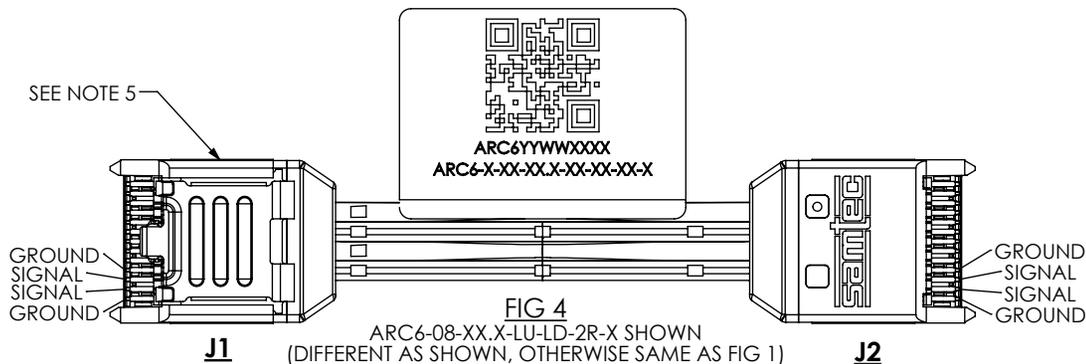


FIG 4
ARC6-08-XX.X-LU-LD-2R-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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SHEET SCALE: 2:1



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DESCRIPTION: **ARC6 CABLE ASSEMBLY**
DWG. NO. **ARC6-X-XX-XX.X-XX-XX-XX-X**
BY: **JOE Z** 08/12/2017 SHEET 2 OF 7

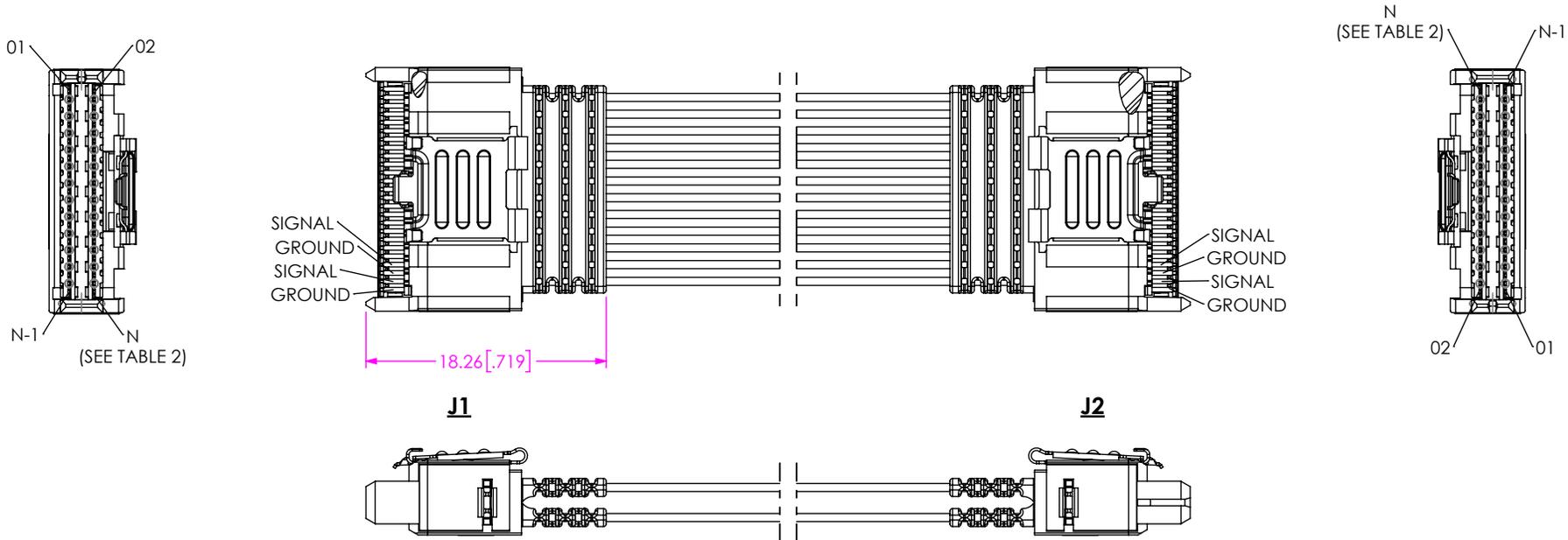


FIG 5
ARC6-S-25-XX.X-LU-LU-3-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

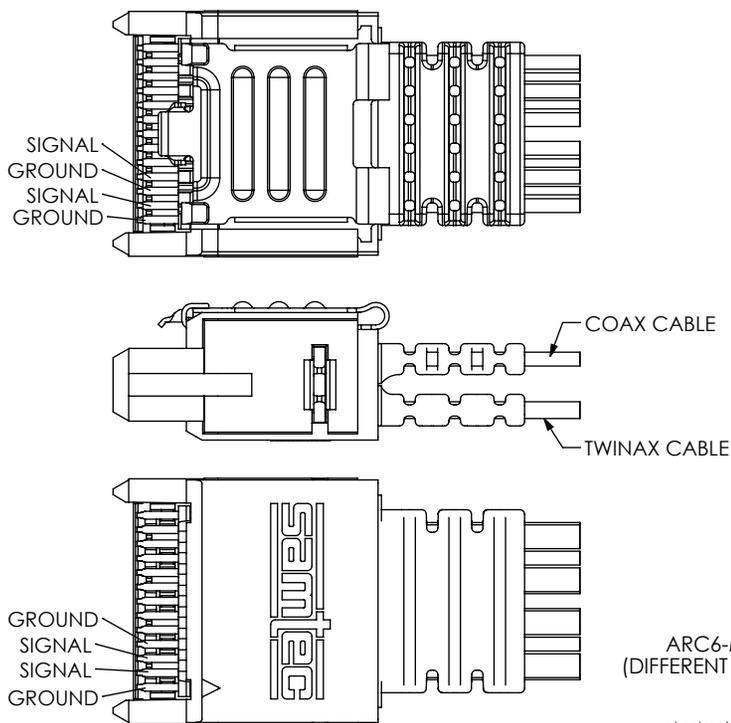


FIG 6
ARC6-M-13-XX.X-LU-XX-X-X END 1 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5)

c:\enterprise\vauf\DWG\MISC\MKTG\ARC6-X-XX-XX.X-XX-XX-XX-X-MKT.SLDDRW

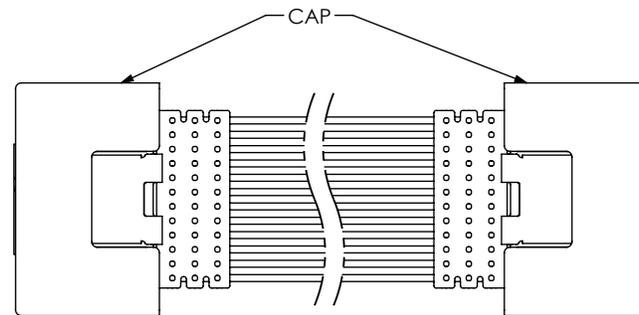


FIG 7
ARC6-S-25-XX.X-LU-LU-3-X WITH PROTECTIVE CAPS SHOWN

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SHEET SCALE: 2:1

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DESCRIPTION:
ARC6 CABLE ASSEMBLY
DWG. NO.
ARC6-X-XX-XX.X-XX-XX-XX-X

BY: JOE Z 08/12/2017 SHEET 3 OF 7

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	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	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	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	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																						
	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																						
	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																						
	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																						
	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																						
	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																						
	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																						
	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																						
	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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 SHEET SCALE: 2:1

DESCRIPTION:
 ARC6 CABLE ASSEMBLY
 DWG. NO.
 ARC6-X-XX-XX.X-XX-XX-XX-X
 BY: JOE Z 08/12/2017 SHEET 4 OF 7

ARC6-S-13-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	GND2	SE	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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	GND2	SE	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

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-S-25-XX-X-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	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
-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	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

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-S-37-XX-X-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	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		
-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	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		

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SHEET SCALE: 2:1
DO NOT SCALE DRAWING

DESCRIPTION: ARC6 CABLE ASSEMBLY

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

BY: JOE Z 08/12/2017 SHEET 6 OF 7

ARC6-M-13-XX X-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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	GND2	SE	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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	GND2	SE	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

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-M-25-XX X-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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	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
-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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	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

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

ARC6-M-37-XX X-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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	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		
-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	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	GND1	DP	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		

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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e-Mail info@SAMTEC.com code 5332

SHEET SCALE: 2:1
DO NOT SCALE DRAWING

DESCRIPTION: ARC6 CABLE ASSEMBLY

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