

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

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

CABLE STYLE

☒ -1: 34100 (TwinAx)☒ -2: 3492 (TwinAx)☒ -3: 3492 (ThinAx)☐ -4: 3450 (COAX)☐ -5: 3250 (COAX)☒ -6: 3492 (ThinAx) & 3450 (COAX)☒ -7: 3492 (ThinAx) & 3250 (COAX)

(SEE NOTE 7)

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)

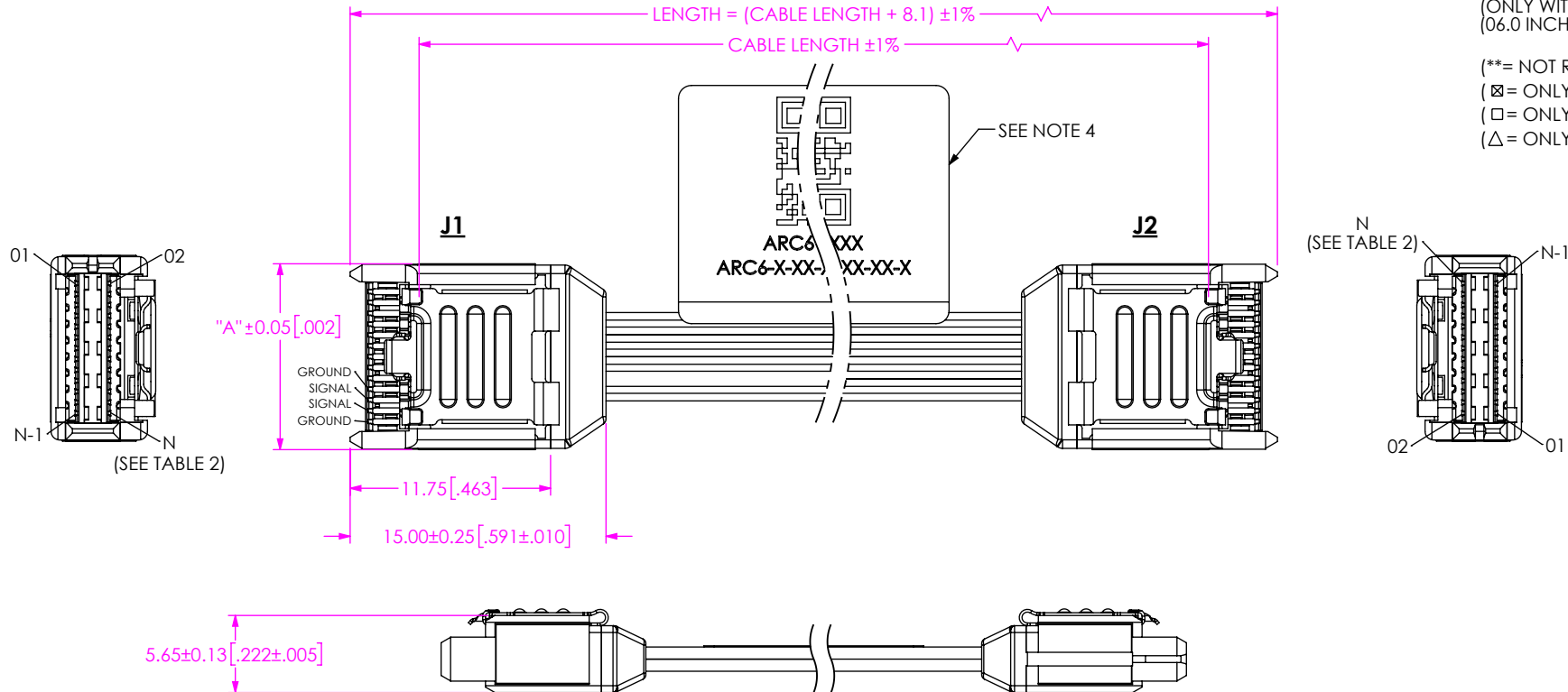
(ONLY WITH END 2 -LD OPTION)

☒ -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)(Δ = ONLY AVAILABLE WITH -M STYLE)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-X-XX-XX.X-XX-XX-XX-X"
5. "J1" TO BE LASER MARKED ON PLASTIC HOUSING FOR -2R AND -3R OPTIONS ONLY.
6. MAX STANDARD CABLE LENGTH IS 5 METERS.
FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM.
7. FOR ADDITIONAL TWINAX/THINAX AND COAX COMBINATIONS, CONTACT HDR@SAMTEC.COM.

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

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

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

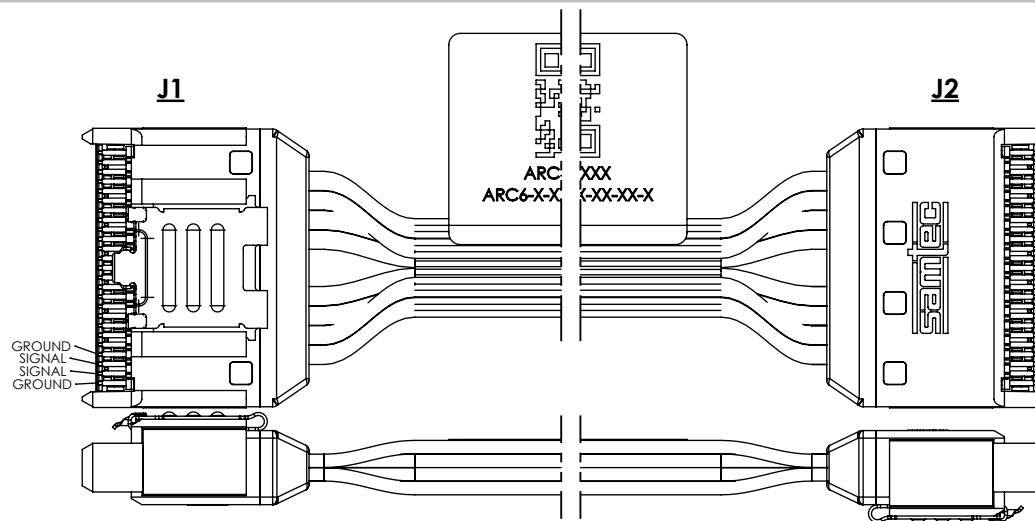
samtec

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

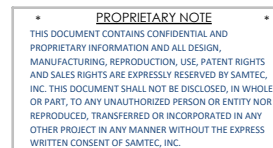
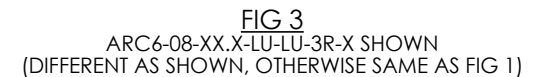
DESCRIPTION: ARC6 CABLE ASSEMBLY

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

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



(SEE TABLE 2, SHEET 1)



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

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

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

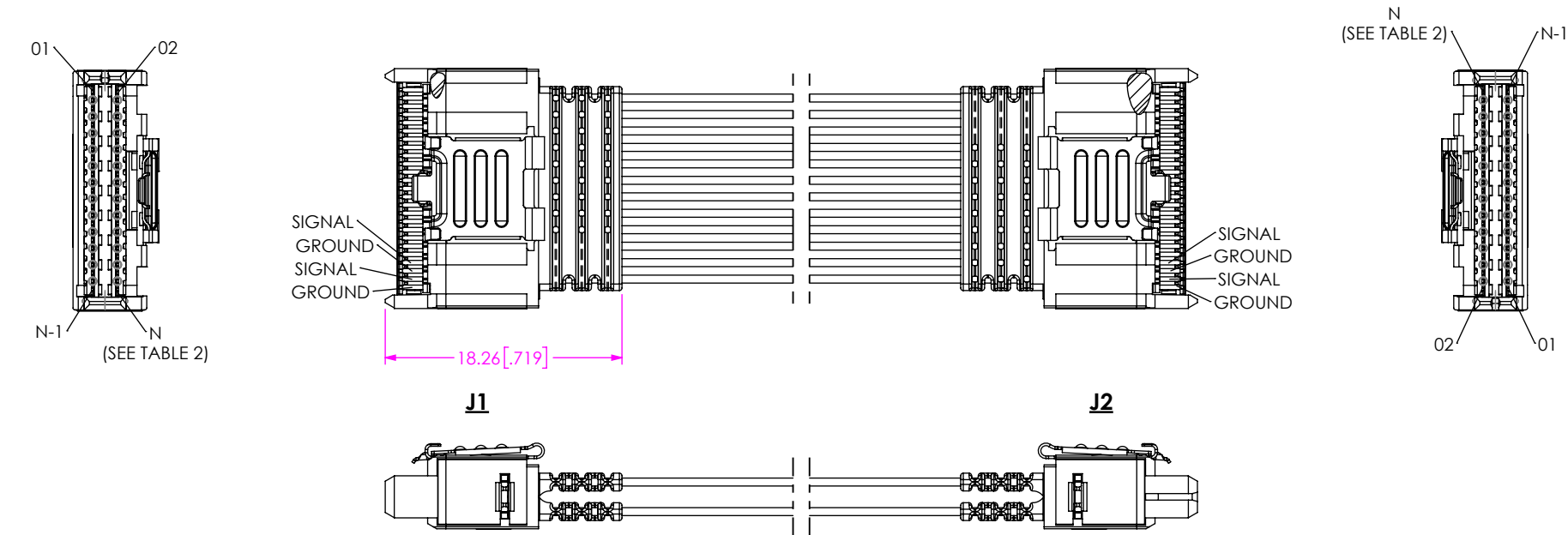


FIG 5
ARC6-S-25-XX.X-LU-LU-3-X SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

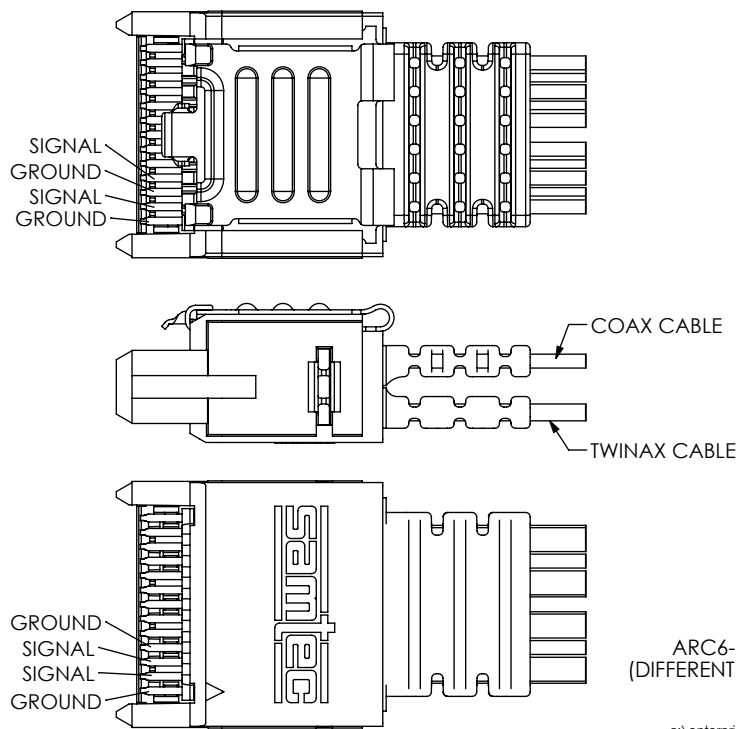


FIG 6
ARC6-M-13-XX.X-LU-XX-X-X END 1 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5)

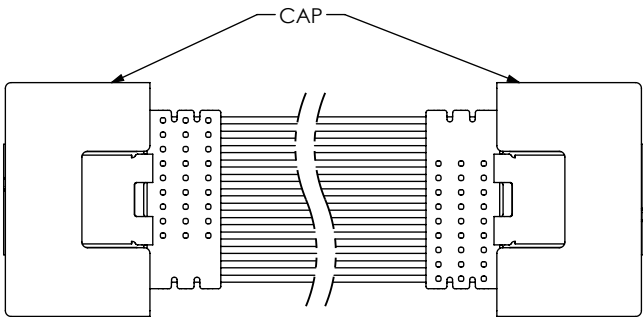


FIG 7
ARC6-S-25-XX.X-LU-LU-3-X WITH PROTECTIVE CAPS SHOWN

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

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

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 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	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	GND2	PAIR	GND2	PAIR	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	PAIR	GND1	PAIR	GND1	GND2	PAIR	GND2	PAIR	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	PAIR	GND1	PAIR	GND1	GND2	PAIR	GND2	PAIR	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	PAIR	GND1	PAIR	GND1	GND2	PAIR	GND2	PAIR	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	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2
-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	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2
-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	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2
-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	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2
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																										

• PROPRIETARY NOTE •
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.



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

DO NOT SCALE DRAWING

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

ARC6-24-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	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR		
	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR		
	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	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR		
	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR
	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	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR
	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR
	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	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR	GND1	PAIR
	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	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR	GND2	PAIR
	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																																							

• PROPRIETARY NOTE •

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.



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

DO NOT SCALE DRAWING

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 5 OF 7

ARC6-S-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	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	SE	GND1	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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	SE	GND2	SE	GND2	SE	GND2	SE	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	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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	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
-3 (PIN1 TO PIN N-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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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
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
	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	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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	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
-3 (PIN1 TO PIN N-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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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
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																										

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

SHEET SCALE: 2:1
DO NOT SCALE DRAWING



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-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	SE	GND2	SE	GND2	SE	GND2	SE	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	SE	GND2	SE	GND2	SE	GND2	SE	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	
	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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	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	
	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	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	
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-37-XX.X-XX-XX-X SIGNAL MAPPING

WIRING OPTION		POSITIONS																																							
-2 (PIN 1 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	DP
	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE
	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 (PIN 1 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	DP
	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	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE	GND2	SE
	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			
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																																									

* PROPRIETARY NOTE *
 THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

SHEET SCALE: 2:1
 DO NOT SCALE DRAWING



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

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