



APPLICATION SPEED

-1: UP TO 128G PAM4
-2: (ECO)
(APPLICATION SPEED OPTIONS FOR
DIFFERENTIAL PAIR WAFERS ONLY.
LEAVE BLANK FOR -SE SIGNAL TYPE)

PIN OUT

-1: PIN A01 TO PIN A01
(SEE PINOUT TABLE)
-4: PIN A01 TO PIN N01
(SEE PINOUT TABLE)
○ -5: NVACE TO QSFP-DD
(SEE PINOUT TABLES)
○ -6: NVACE TO QSFP
(SEE PINOUT TABLES)
○ Δ -7: NVACE TO OSFP
(SEE PINOUT TABLES)

END 2

-A: NVACE
○ -B: QSFP-DD DAC
(AVAILABLE FOR -1:34100 CABLE STYLE)
○ -C: QSFP
(AVAILABLE FOR -1:34100 CABLE STYLE)
○ Δ -D: OSFP
(AVAILABLE FOR -1: 34100, -5: 28100 CABLE STYLE)

SIGNAL TYPE

-DP: DIFFERENTIAL TWINAX PAIRS ONLY
** -DS: MIXED DIFFERENTIAL TWINAX PAIRS
AND SINGLE ENDED COAX SIGNALS
-SE: SINGLE ENDED COAX SIGNALS ONLY

CABLE STYLE

-1: 34100 (TwinAx)
* -2: 30100 (TwinAx)
-5: 28100 (TwinAx)
-6: 3450 (CoAx)
* -7: 3492 (TwinAx)
* -8: 3492 (ThinAx)
-9: 3450 (ThinSE)

ROWS

* -2: 2 ROW
-4: 4 ROW
-8: 8 ROW

CABLE LENGTH

-X.X (METERS)
(0.5 METER MINIMUM)
(SEE NOTES 4 & 5)

(* = NOT TOOLED)

(** = NOT AVAILABLE IN -2 ROW)

(Δ = NOT RELEASED)

(○ = ONLY CONFIGURABLE TOGETHER)

DO NOT
SCALE FROM
THIS PRINT

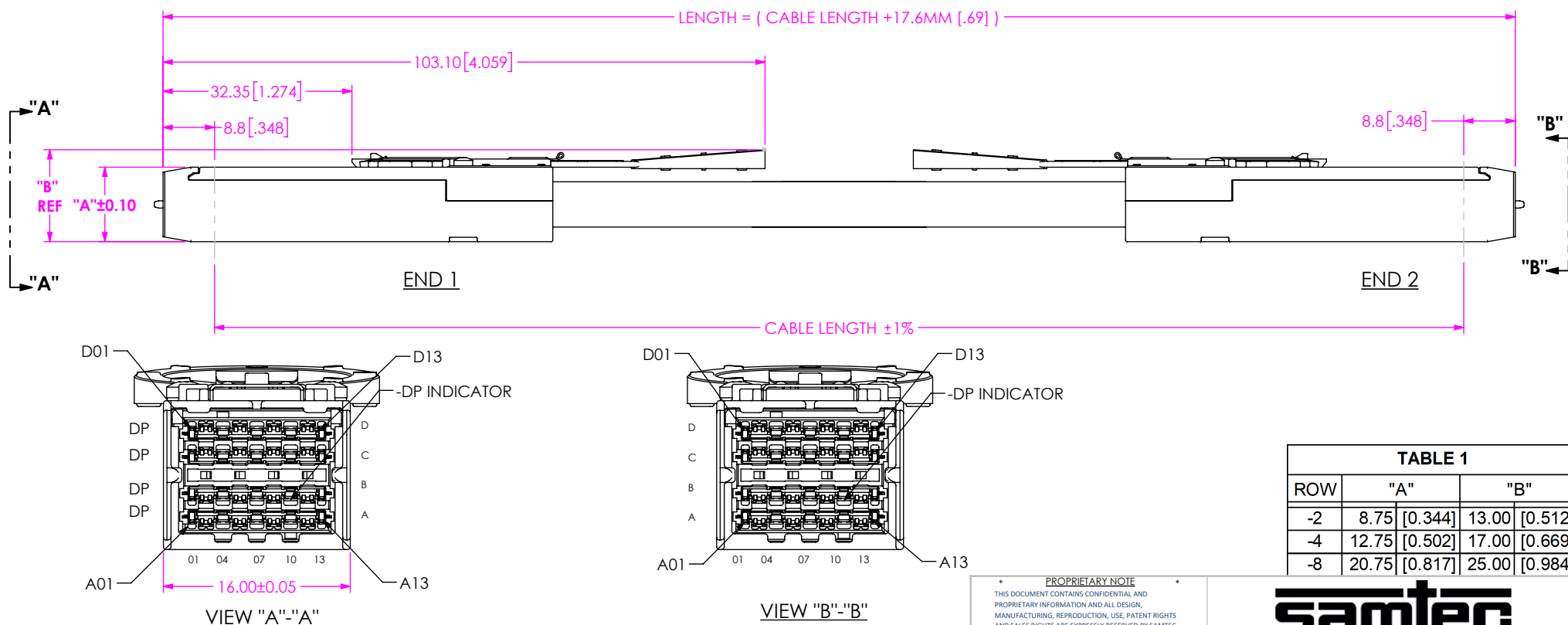


FIG 1
NVACE-DP-X-4-X-X-A-X-1 SHOWN

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. ALL FINISHED ASSEMBLIES TO BE 100% S.I. TESTED.
4. CABLE LENGTHS LONGER THAN 3 METERS[118 INCHES] ARE NOT SUPPORTED BY S.I. TEST DATA.
5. MAX STANDARD CABLE LENGTH IS 5 METERS. FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM.

TABLE 1

ROW	"A"	"B"
-2	8.75 [0.344]	13.00 [0.512]
-4	12.75 [0.502]	17.00 [0.669]
-8	20.75 [0.817]	25.00 [0.984]

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DO NOT SCALE DRAWING
SHEET SCALE: 2:1

MATERIAL:
INSULATOR: LCP, BLACK
CONTACTS: CU ALLOY
GROUND PLANE: CU ALLOY
PLATING: 30 μ" GOLD IN CONTACT AREA

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:

NVACE ASSEMBLY

DWG. NO.

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

BY:KNOWLDEN 02/07/2020 SHEET 1 OF 8

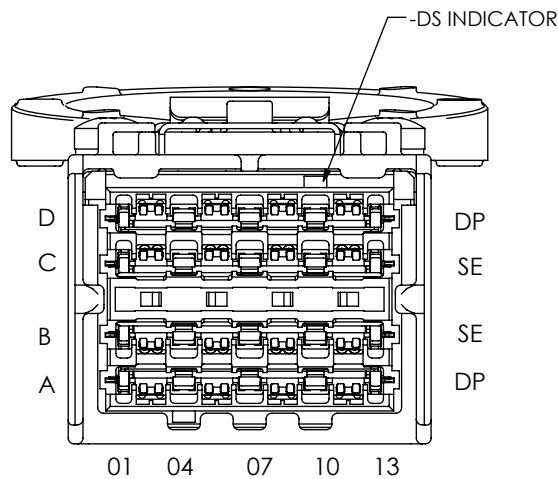
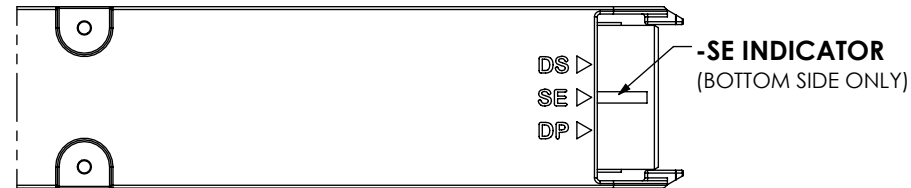
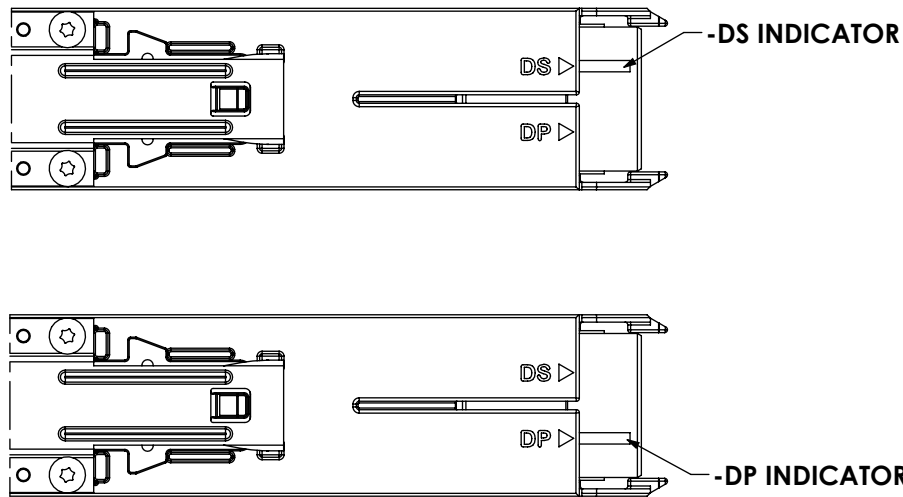


FIG 2
NVACE-DS-X-4-X-X-A-X-1
(SAME AS FIG 1, EXCEPT AS SHOWN)

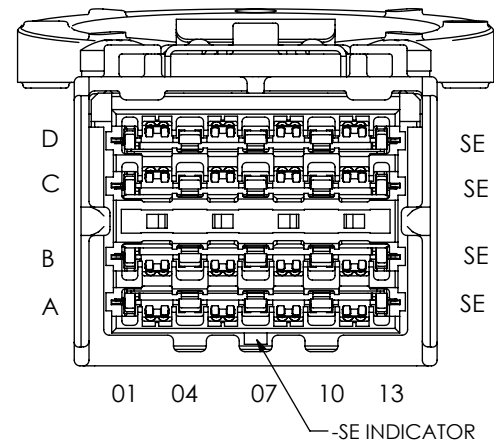
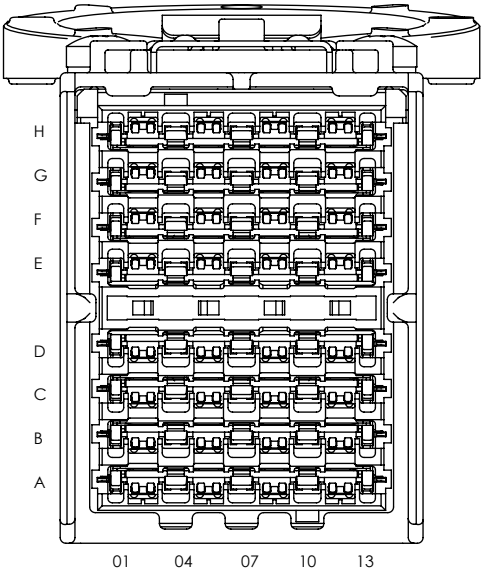
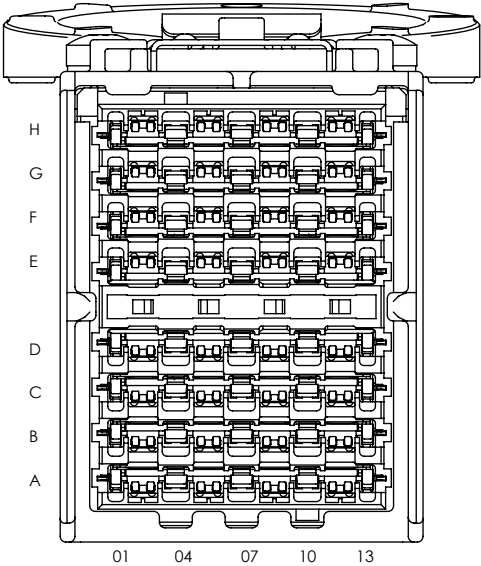


FIG 3
NVACE-SE-X-4-X-X-A-X-1
(SAME AS FIG 1, EXCEPT AS SHOWN)

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DO NOT SCALE DRAWING		DESCRIPTION: NVACE ASSEMBLY	
SHEET SCALE: 2:1		DWG. NO. NVACE-XX-X-X-X.X-X-X-X	
BY: KNOWLDEN 02/07/2020		SHEET 2 OF 8	



J1
(NVACE)



J2
(NVACE)

PINOUT TABLE - BOTTOM																							
SIGNAL MAPPING FOR NVACE-XX-X-08-X.X-A-1-X																							
J1			SIGNAL TYPE			J2	J1			SIGNAL TYPE			J2	J1			SIGNAL TYPE			J2			
			-DP	-DS	-SE					-DP	-DS	-SE					-DP	-DS	-SE				
A 01			GND			A 01	B 01			GND			B 01	C 01			GND			C 01	D 01		
A 02			TX1+	TX1+	LS1	A 02	B 02			TX5+	TX5+	LS9	B 02	C 02			TX9+	LS1	LS17	C 02	D 02		
A 03			TX1-	TX1-	LS2	A 03	B 03			TX5-	TX5-	LS10	B 03	C 03			TX9-	LS2	LS18	C 03	D 03		
A 04			GND			A 04	B 04			GND			B 04	C 04			GND			C 04	D 04		
A 05			TX2+	TX2+	LS3	A 05	B 05			TX6+	TX6+	LS11	B 05	C 05			TX10+	LS3	LS19	C 05	D 05		
A 06			TX2-	TX2-	LS4	A 06	B 06			TX6-	TX6-	LS12	B 06	C 06			TX10-	LS4	LS20	C 06	D 06		
A 07			GND			A 07	B 07			GND			B 07	C 07			GND			C 07	D 07		
A 08			TX3+	TX3+	LS5	A 08	B 08			TX7+	TX7+	LS13	B 08	C 08			TX11+	LS5	LS21	C 08	D 08		
A 09			TX3-	TX3-	LS6	A 09	B 09			TX7-	TX7-	LS14	B 09	C 09			TX11-	LS6	LS22	C 09	D 09		
A 10			GND			A 10	B 10			GND			B 10	C 10			GND			C 10	D 10		
A 11			TX4+	TX4+	LS7	A 11	B 11			TX8+	TX8+	LS15	B 11	C 11			TX12+	LS7	LS23	C 11	D 11		
A 12			TX4-	TX4-	LS8	A 12	B 12			TX8-	TX8-	LS16	B 12	C 12			TX12-	LS8	LS24	C 12	D 12		
A 13			GND			A 13	B 13			GND			B 13	C 13			GND			C 13	D 13		
ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD																							

PINOUT TABLE - TOP																						
SIGNAL MAPPING FOR NVACE-XX-X-08-X.X-A-1-X																						
J1	SIGNAL TYPE			J2		J1	SIGNAL TYPE			J2		J1	SIGNAL TYPE			J2		J1	SIGNAL TYPE			J2
	-DP	-DS	-SE				-DP	-DS	-SE				-DP	-DS	-SE				-DP	-DS	-SE	
E 01	GND			E 01		F 01	GND			F 01		G 01	GND			G 01		H 01	GND			H 01
E 02	RX1+	LS17	LS33	E 02		F 02	RX5+	LS25	LS41	F 02		G 02	RX9+	RX1+	LS49	G 02		H 02	RX13+	RX5+	LS57	H 02
E 03	RX1-	LS18	LS34	E 03		F 03	RX5-	LS26	LS42	F 03		G 03	RX9-	RX1-	LS50	G 03		H 03	RX13-	RX5-	LS58	H 03
E 04	GND			E 04		F 04	GND			F 04		G 04	GND			G 04		H 04	GND			H 04
E 05	RX2+	LS19	LS35	E 05		F 05	RX6+	LS27	LS43	F 05		G 05	RX10+	RX2+	LS51	G 05		H 05	RX14+	RX6+	LS59	H 05
E 06	RX2-	LS20	LS36	E 06		F 06	RX6-	LS28	LS44	F 06		G 06	RX10-	RX2-	LS52	G 06		H 06	RX14-	RX6-	LS60	H 06
E 07	GND			E 07		F 07	GND			F 07		G 07	GND			G 07		H 07	GND			H 07
E 08	RX3+	LS21	LS37	E 08		F 08	RX7+	LS29	LS45	F 08		G 08	RX11+	RX3+	LS53	G 08		H 08	RX15+	RX7+	LS61	H 08
E 09	RX3-	LS22	LS38	E 09		F 09	RX7-	LS30	LS46	F 09		G 09	RX11-	RX3-	LS54	G 09		H 09	RX15-	RX7-	LS62	H 09
E 10	GND			E 10		F 10	GND			F 10		G 10	GND			G 10		H 10	GND			H 10
E 11	RX4+	LS23	LS39	E 11		F 11	RX8+	LS31	LS47	F 11		G 11	RX12+	RX4+	LS55	G 11		H 11	RX16+	RX8+	LS63	H 11
E 12	RX4-	LS24	LS40	E 12		F 12	RX8-	LS32	LS48	F 12		G 12	RX12-	RX4-	LS56	G 12		H 12	RX16-	RX8-	LS64	H 12
E 13	GND			E 13		F 13	GND			F 13		G 13	GND			G 13		H 13	GND			H 13
ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD																						

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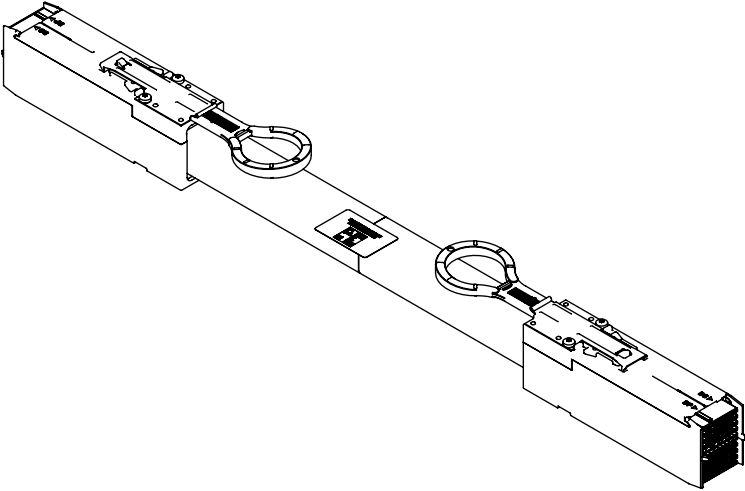
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e-Mail: info@SAMTEC.com code 55322

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION:
NVACE ASSEMBLY
DWG. NO.
NVACE-XX-X-X.X-X-X-X
BY: KNOWLDEN02/07/2020 SHEET 4 OF 8

PINOUT TABLE - BOTTOM																													
SIGNAL MAPPING FOR NVACE-XX-X-08-X.X-A-4-X																													
J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2
	-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE						
A 01	GND			H 01	B 01	GND			G 01	C 01	GND			F 01	D 01	GND			E 01										
A 02	TX1+	TX1+	LS1	H 02	B 02	TX5+	TX5+	LS9	G 02	C 02	TX9+	LS1	LS17	F 02	D 02	TX13+	LS9	LS25	E 02										
A 03	TX1-	TX1-	LS2	H 03	B 03	TX5-	TX5-	LS10	G 03	C 03	TX9-	LS2	LS18	F 03	D 03	TX13-	LS10	LS26	E 03										
A 04	GND			H 04	B 04	GND			G 04	C 04	GND			F 04	D 04	GND			E 04										
A 05	TX2+	TX2+	LS3	H 05	B 05	TX6+	TX6+	LS11	G 05	C 05	TX10+	LS3	LS19	F 05	D 05	TX14+	LS11	LS27	E 05										
A 06	TX2-	TX2-	LS4	H 06	B 06	TX6-	TX6-	LS12	G 06	C 06	TX10-	LS4	LS20	F 06	D 06	TX14-	LS12	LS28	E 06										
A 07	GND			H 07	B 07	GND			G 07	C 07	GND			F 07	D 07	GND			E 07										
A 08	TX3+	TX3+	LS5	H 08	B 08	TX7+	TX7+	LS13	G 08	C 08	TX11+	LS5	LS21	F 08	D 08	TX15+	LS13	LS29	E 08										
A 09	TX3-	TX3-	LS6	H 09	B 09	TX7-	TX7-	LS14	G 09	C 09	TX11-	LS6	LS22	F 09	D 09	TX15-	LS14	LS30	E 09										
A 10	GND			H 10	B 10	GND			G 10	C 10	GND			F 10	D 10	GND			E 10										
A 11	TX4+	TX4+	LS7	H 11	B 11	TX8+	TX8+	LS15	G 11	C 11	TX12+	LS7	LS23	F 11	D 11	TX16+	LS15	LS31	E 11										
A 12	TX4-	TX4-	LS8	H 12	B 12	TX8-	TX8-	LS16	G 12	C 12	TX12-	LS8	LS24	F 12	D 12	TX16-	LS16	LS32	E 12										
A 13	GND			H 13	B 13	GND			G 13	C 13	GND			F 13	D 13	GND			E 13										
ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD																													



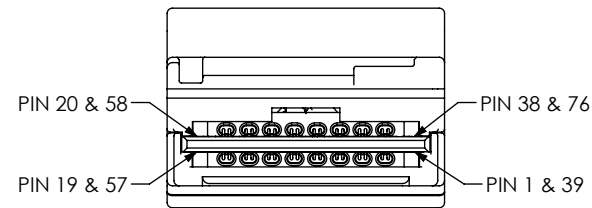
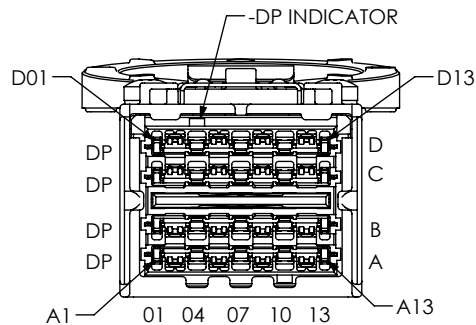
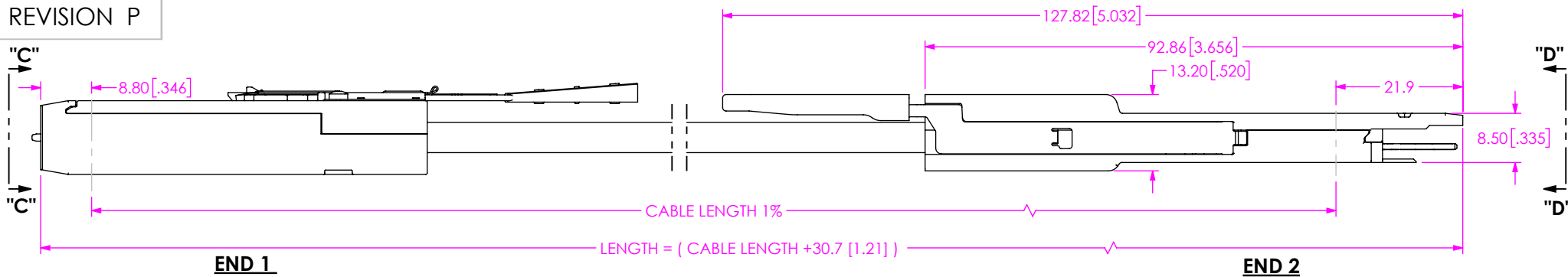
PINOUT TABLE - TOP																													
SIGNAL MAPPING FOR NVACE-XX-X-08-X.X-A-4-X																													
J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2	J1	SIGNAL TYPE			J2
	-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE			-DP	-DS	-SE						
E 01		GND		D 01	F 01		GND		C 01	G 01		GND		B 01	H 01		GND		A 01										
E 02	RX1+	LS17	LS33	D 02	F 02	RX5+	LS25	LS41	C 02	G 02	RX9+	RX1+	LS49	B 02	H 02	RX13+	RX5+	LS57	A 02										
E 03	RX1-	LS18	LS34	D 03	F 03	RX5-	LS26	LS42	C 03	G 03	RX9-	RX1-	LS50	B 03	H 03	RX13-	RX5-	LS58	A 03										
E 04		GND		D 04	F 04		GND		C 04	G 04		GND		B 04	H 04		GND		A 04										
E 05	RX2+	LS19	LS35	D 05	F 05	RX6+	LS27	LS43	C 05	G 05	RX10+	RX2+	LS51	B 05	H 05	RX14+	RX6+	LS59	A 05										
E 06	RX2-	LS20	LS36	D 06	F 06	RX6-	LS28	LS44	C 06	G 06	RX10-	RX2-	LS52	B 06	H 06	RX14-	RX6-	LS60	A 06										
E 07		GND		D 07	F 07		GND		C 07	G 07		GND		B 07	H 07		GND		A 07										
E 08	RX3+	LS21	LS37	D 08	F 08	RX7+	LS29	LS45	C 08	G 08	RX11+	RX3+	LS53	B 08	H 08	RX15+	RX7+	LS61	A 08										
E 09	RX3-	LS22	LS38	D 09	F 09	RX7-	LS30	LS46	C 09	G 09	RX11-	RX3-	LS54	B 09	H 09	RX15-	RX7-	LS62	A 09										
E 10		GND		D 10	F 10		GND		C 10	G 10		GND		B 10	H 10		GND		A 10										
E 11	RX4+	LS23	LS39	D 11	F 11	RX8+	LS31	LS47	C 11	G 11	RX12+	RX4+	LS55	B 11	H 11	RX16+	RX8+	LS63	A 11										
E 12	RX4-	LS24	LS40	D 12	F 12	RX8-	LS32	LS48	C 12	G 12	RX12-	RX4-	LS56	B 12	H 12	RX16-	RX8-	LS64	A 12										
E 13		GND		D 13	F 13		GND		C 13	G 13		GND		B 13	H 13		GND		A 13										
ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD																													

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SHEET SCALE: 2:1

DESCRIPTION:
NVACE ASSEMBLY
DWG. NO.
NVACE-XX-X-X.X-X-X-X
BY: KNOWLDEN02/07/2020 SHEET 5 OF 8



END 2 NOT SHOWN FOR CLARITY
VIEW "C"-"C"

END 1 NOT SHOWN FOR CLARITY
VIEW "D"-"D"

PINOUT TABLE											
SIGNAL MAPPING FOR NVACE-DP-X-4-X-X-B-5-X											
J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2
A 01	GND	*2	B 01	GND	*2	C 01	GND	*2	D 01	GND	*2
A 02	TX1+	P36	B 02	TX5+	P74	C 02	RX1+	P17	D 02	RX5+	P55
A 03	TX1-	P37	B 03	TX5-	P75	C 03	RX1-	P18	D 03	RX5-	P56
A 04	GND	*2	B 04	GND	*2	C 04	GND	*2	D 04	GND	*2
A 05	TX2+	P03	B 05	TX6+	P41	C 05	RX2+	P22	D 05	RX6+	P60
A 06	TX2-	P02	B 06	TX6-	P40	C 06	RX2-	P21	D 06	RX6-	P59
A 07	GND	*2	B 07	GND	*2	C 07	GND	*2	D 07	GND	*2
A 08	TX3+	P33	B 08	TX7+	P71	C 08	RX3+	P14	D 08	RX7+	P52
A 09	TX3-	P34	B 09	TX7-	P72	C 09	RX3-	P15	D 09	RX7-	P53
A 10	GND	*2	B 10	GND	*2	C 10	GND	*2	D 10	GND	*2
A 11	TX4+	P06	B 11	TX8+	P44	C 11	RX4+	P25	D 11	RX8+	P63
A 12	TX4-	P05	B 12	TX8-	P43	C 12	RX4-	P24	D 12	RX8-	P62
A 13	GND	*2	B 13	GND	*2	C 13	GND	*2	D 13	GND	*2

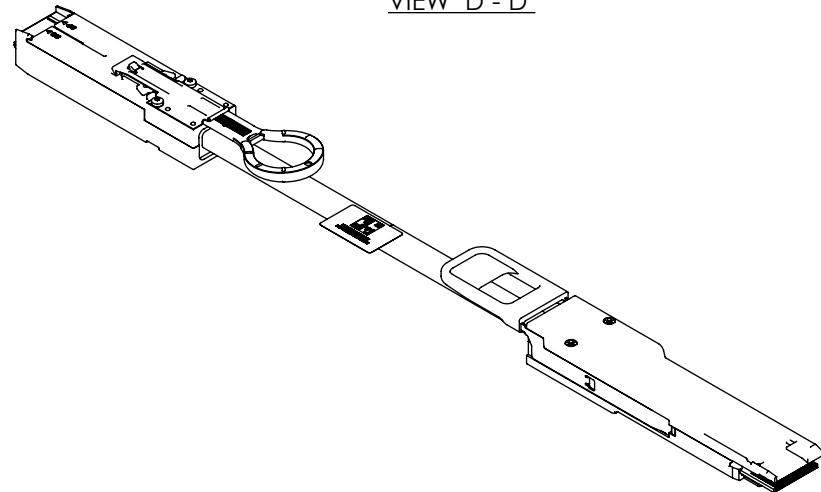
1: ALL LIKE NEMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD.

* 2: GROUND PIN @J2 ARE: P1, 4, 7, 13, 16, 19, 20, 23, 26, 32, 35, 38, 39, 42, 48, 51, 54, 57, 58, 61, 64, 70, 73, 76.

3: @J2,P8~12 / P27~31 / P46~50 / P65~69 ARE NC TO J1.

4: ALL NC NETS DO NO TRANSMIT THROUGH CABLE, THEY WILL ROUTE THROIGH CUSTOMER PCB.

5: 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:

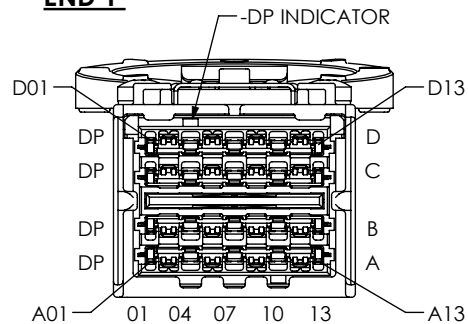
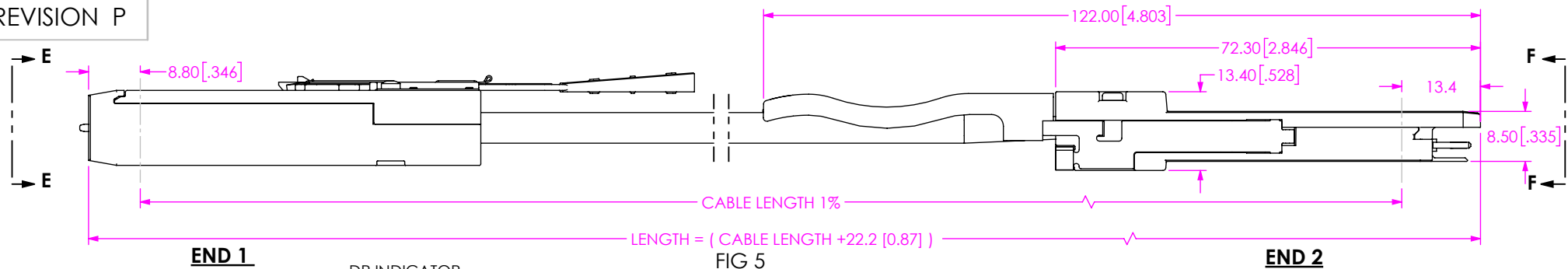
NVACE ASSEMBLY

DWG. NO.

NVACE-XX-X-X-X-X-X-X-X-X

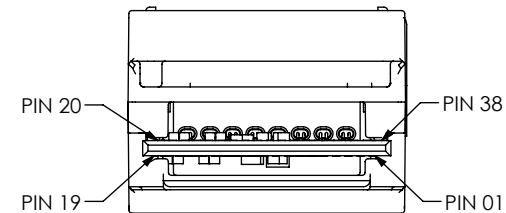
BY: KNOWLDEN02/07/2020

SHEET 6 OF 8



END 2 NOT SHOWN FOR CLARITY

VIEW "E"-"E"



END 1 NOT SHOWN FOR CLARITY

VIEW "F"-"F"

PINOUT TABLE

SIGNAL MAPPING FOR NVACE-DP-X-4-X-X-C-6-X

J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2
A 01	GND	*2	B 01	GND	*2	C 01	GND	*2	D 01	GND	*2
A 02	TX1+	P36	B 02	TX5+	NC	C 02	RX1+	P17	D 02	RX5+	NC
A 03	TX1-	P37	B 03	TX5-	NC	C 03	RX1-	P18	D 03	RX5-	NC
A 04	GND	*2	B 04	GND	*2	C 04	GND	*2	D 04	GND	*2
A 05	TX2+	P03	B 05	TX6+	NC	C 05	RX2+	P22	D 05	RX6+	NC
A 06	TX2-	P02	B 06	TX6-	NC	C 06	RX2-	P21	D 06	RX6-	NC
A 07	GND	*2	B 07	GND	*2	C 07	GND	*2	D 07	GND	*2
A 08	TX3+	P33	B 08	TX7+	NC	C 08	RX3+	P14	D 08	RX7+	NC
A 09	TX3-	P34	B 09	TX7-	NC	C 09	RX3-	P15	D 09	RX7-	NC
A 10	GND	*2	B 10	GND	*2	C 10	GND	*2	D 10	GND	*2
A 11	TX4+	P06	B 11	TX8+	NC	C 11	RX4+	P25	D 11	RX8+	NC
A 12	TX4-	P05	B 12	TX8-	NC	C 12	RX4-	P24	D 12	RX8-	NC
A 13	GND	*2	B 13	GND	*2	C 13	GND	*2	D 13	GND	*2

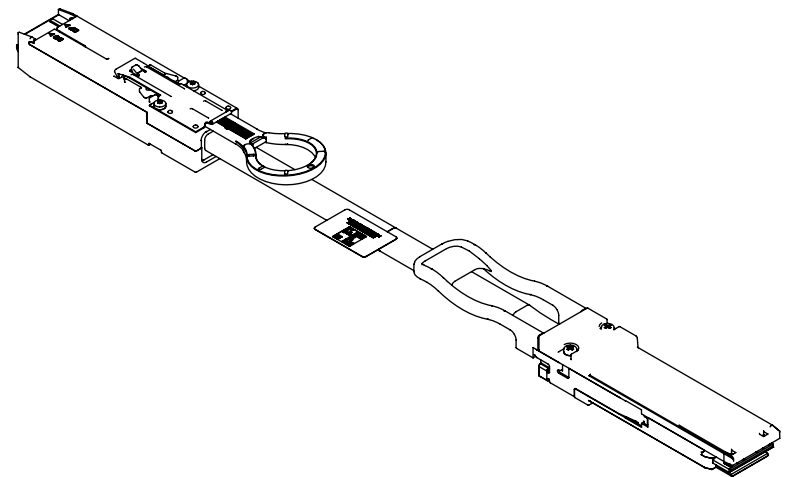
1: ALL LIKE NEMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD.

* 2: GROUND PIN @J2 ARE: P1, 4, 7, 13, 16, 19, 20, 23, 26, 32, 35, 38

3: @J2,P8~P12, P27~P31 ARE NC TO J1.

4: ALL NC NETS DO NOT TRANSMIT THROUGH CABLE, THEY WILL ROUTE THROUGH CUSTOMER PCB.

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



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DESCRIPTION:

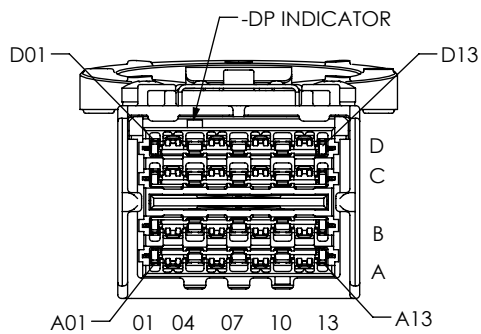
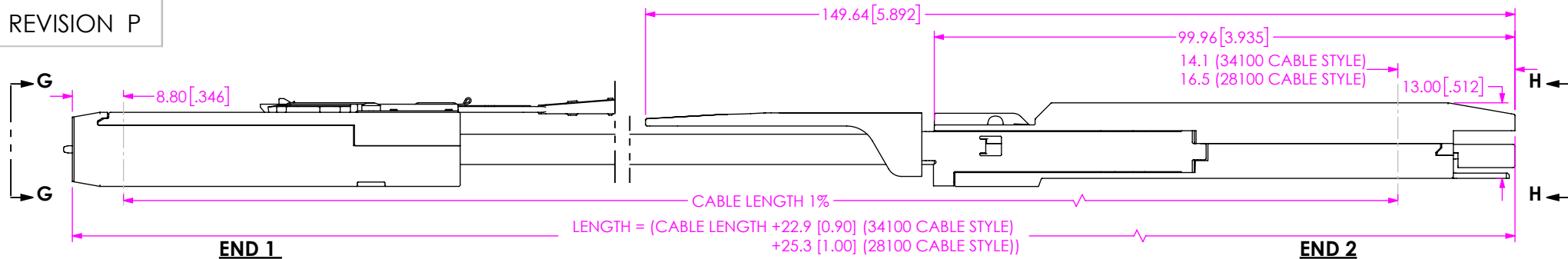
NVACE ASSEMBLY

DWG. NO.

NVACE-XX-X-X-X-X-X-X-X

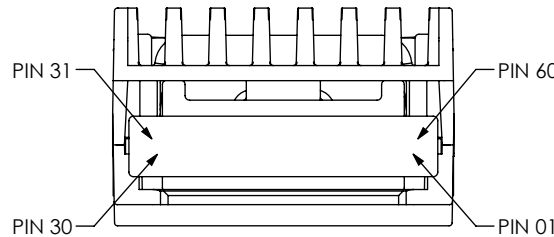
BY: KNOWLDEN02/07/2020

SHEET 7 OF 8

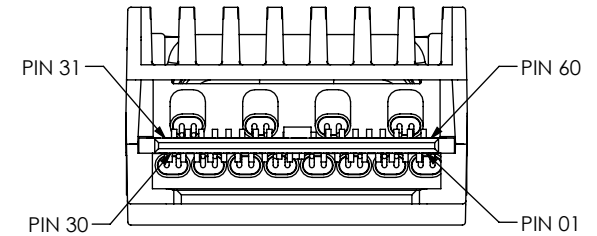


END 2 NOT SHOWN FOR CLARITY
VIEW "G"-"G"

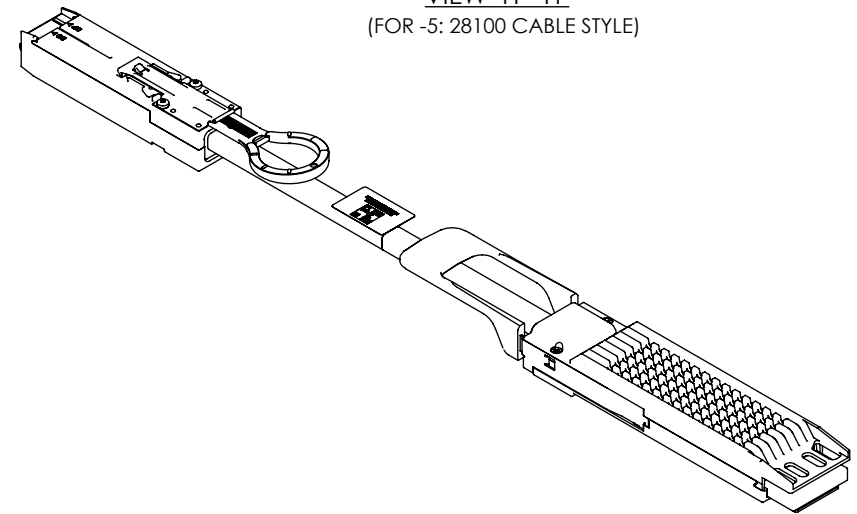
FIG 6
NVACE-DP-X-4-X-X-D-7-X SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)



END 1 NOT SHOWN FOR CLARITY
VIEW "H"-"H"
(FOR -1: 34100 CABLE STYLE)



END 1 NOT SHOWN FOR CLARITY
VIEW "H"-"H"
(FOR -5: 28100 CABLE STYLE)



PINOUT TABLE											
SIGNAL MAPPING FOR NVACE-DP-X-4-X-X-D-7-X											
J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2
	-DP			-DP			-DP			-DP	
A 01	GND	*2	B 01	GND	*2	C 01	GND	*2	D 01	GND	*2
A 02	TX1+	P59	B 02	TX5+	P53	C 02	RX1+	P29	D 02	RX5+	P23
A 03	TX1-	P58	B 03	TX5-	P52	C 03	RX1-	P28	D 03	RX5-	P22
A 04	GND	*2	B 04	GND	*2	C 04	GND	*2	D 04	GND	*2
A 05	TX2+	P02	B 05	TX6+	P08	C 05	RX2+	P32	D 05	RX6+	P38
A 06	TX2-	P03	B 06	TX6-	P09	C 06	RX2-	P33	D 06	RX6-	P39
A 07	GND	*2	B 07	GND	*2	C 07	GND	*2	D 07	GND	*2
A 08	TX3+	P56	B 08	TX7+	P50	C 08	RX3+	P26	D 08	RX7+	P20
A 09	TX3-	P55	B 09	TX7-	P49	C 09	RX3-	P25	D 09	RX7-	P19
A 10	GND	*2	B 10	GND	*2	C 10	GND	*2	D 10	GND	*2
A 11	TX4+	P05	B 11	TX8+	P11	C 11	RX4+	P35	D 11	RX8+	P41
A 12	TX4-	P06	B 12	TX8-	P12	C 12	RX4-	P36	D 12	RX8-	P42
A 13	GND	*2	B 13	GND	*2	C 13	GND	*2	D 13	GND	*2

- 1: ALL LIKE NEMED GROUNDS ARE COMMON AND TIED TO CABLE SHIELD.
- * 2: GROUND PIN @J2 ARE P1, 4, 7, 10, 13, 18, 21, 24, 27, 30, 31, 34, 37, 40, 43, 48, 51, 54, 57, 60
- 3: @J2,P14~P17 / P44~P47 ARE NC TO J1.
- 4: ALL NC NETS DO NOT TRANSMIT THROUGH CABLE, THEY WILL ROUTE THROUGH CUSTOMER PCB.
- 5: ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A GND REFERENCE TYING ALL GND'S TOGETHER.

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DESCRIPTION:

NVACE ASSEMBLY

DWG. NO.

NVACE-XX-X-X-X-X-X-X-X

BY: KNOWLDEN02/07/2020 SHEET 8 OF 8