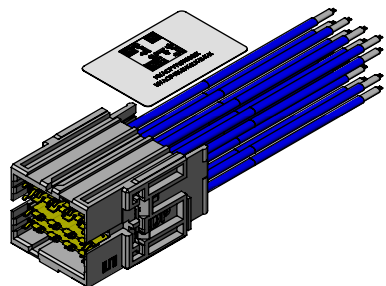


**DESIGNED AND DIMENSIONED IN MILLIMETERS [INCHES]  
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN**

DO NOT SCALE FROM THIS PRINT

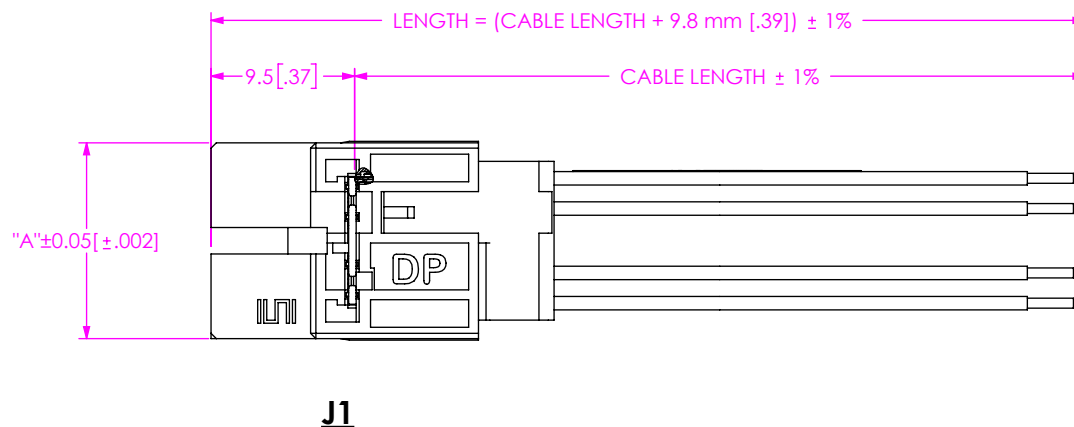
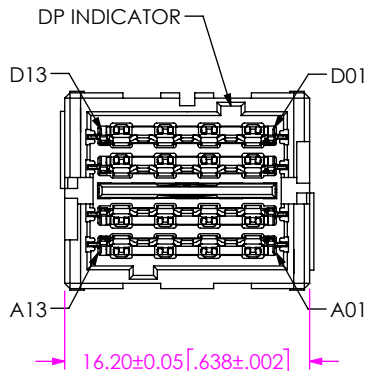
**Pb** THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING



**NVACP-XX-X-X-XX.X-X-X-X**

- SIGNAL TYPE**
  - DP: DIFFERENTIAL TWINAX PAIRS ONLY
  - Δ \*\*: MIXED DIFFERENTIAL TWINAX PAIRS AND SINGLE ENDED COAX SIGNALS
  - SE: SINGLE ENDED COAX SIGNALS ONLY
- TWINAX CABLE STYLE**
  - 1: 34100 (TwinAx)
  - \*-2: 30100 (TwinAx)
  - 3: 3492 (TwinAx)
  - \*-4: 3485 (TwinAx)
  - 6: 3450 (CoAx) (SEE NOTE 5)
  - \*-7: 3492 (ThinAx)
  - Δ -8: 3450 (ThinSE) (SEE NOTE 5)
- ROWS**
  - \*-2: 2 ROW
  - 4: 4 ROW
  - 8: 8 ROW
- CABLE LENGTH**
  - XX.X (INCHES)
  - (6 INCHES MINIMUM, SEE NOTES 3 & 7)
- APPLICATION SPEED (DIFFERENTIAL TWINAX PAIRS ONLY)**
  - 1: 56G PAM4
  - 2: 112G PAM4
- PIN OUT**
  - 1: PIN A01 TO PIN A01 (SEE PINOUT TABLE)
  - 4: PIN A01 TO PIN AN (N EQUALS LAST POSITION) (SEE PINOUT TABLE)
- J2 END**
  - A: ARC6 (34100 TWINAX ONLY) (QTY 1 FOR 4 ROW & QTY 2 FOR 8 ROW)
  - B: NVAC

(\* = NOT TOOLED)  
(\*\* = NOT AVAILABLE IN -2 ROW)  
(Δ = NOT RELEASED)



**FIG 1**  
NVACP-DP-1-4-XX.X-X-X-2 SHOWN

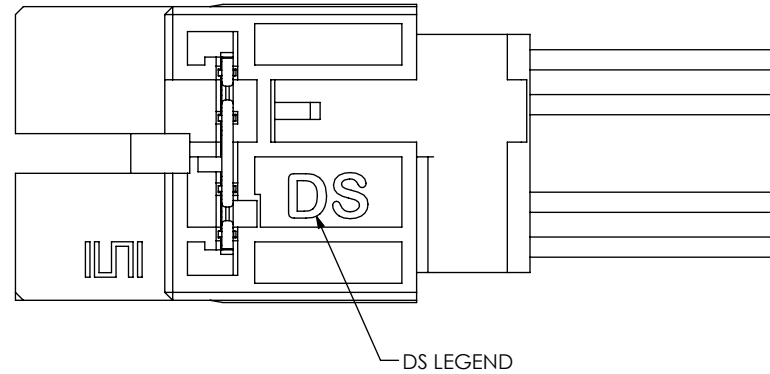
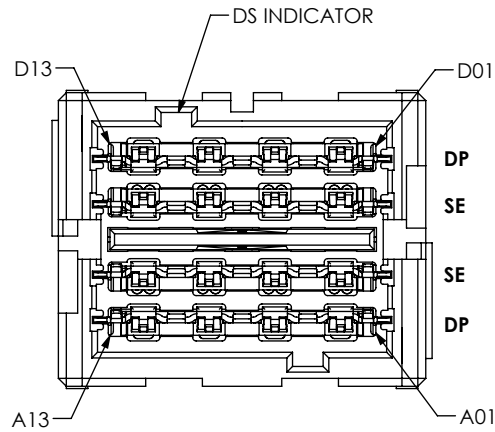
**J2**  
(NOT SHOWN, SEE FIGS 4-9)

**NOTES:**

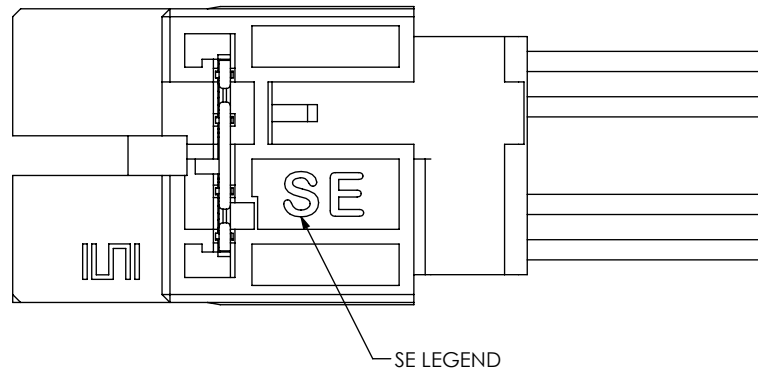
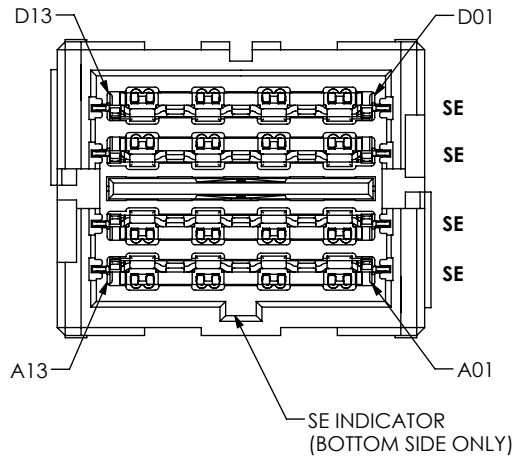
1. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
3. CABLE LENGTHS LONGER THAN 40 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
4. ALL ASSEMBLIES TO BE 100% S.I. TESTED.
5. -3450 CABLE TO BE USED FOR CUSTOM, J2 END APPLICATIONS ONLY.
6. FOR PACKAGING REQUIREMENTS REFERENCE PACKAGING MANUAL
7. MAX STANDARD CABLE LENGTH IS 5 METERS. FOR LENGTHS GREATER THAN 5 METERS, CONTACT HDR@SAMTEC.COM.

TABLE 1		
ROWS	"A"	
-2	8.95	[0.352]
-4	12.95	[0.510]
-8	20.95	[0.825]

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	<p>DO NOT SCALE DRAWING SHEET SCALE: 2:1</p> <p>MATERIAL: INSULATOR: LCP, COLOR: BLACK CONTACT: CU ALLOY GROUND PLANE: CU ALLOY PLATING: 30μ" GOLD IN CONTACT AREA LOCKING CLIP: CU ALLOY</p>	<p>DESCRIPTION: <b>NVACP PANEL MOUNT ASSEMBLY</b></p> <p>DWG. NO. <b>NVACP-XX-X-X-XX.X-X-X-X</b></p> <p>BY: KNOWLDEN 03/08/2020 SHEET 1 OF 8</p>



**FIG 2**  
 NVACP-DS-1-4-XX.X-X-X-2  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (MIXED WAFERS)



**FIG 3**  
 NVACP-SE-1-4-XX.X-X-X-2  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (SINGLE ENDED WAFERS)

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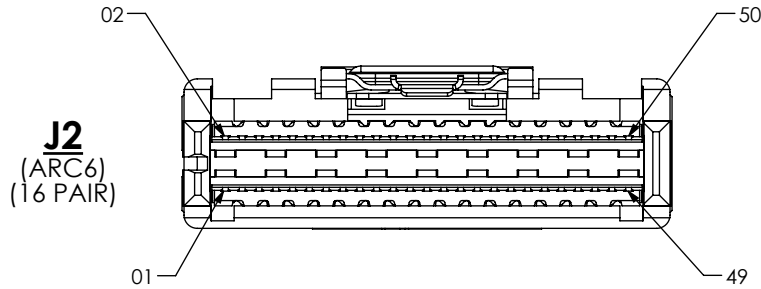
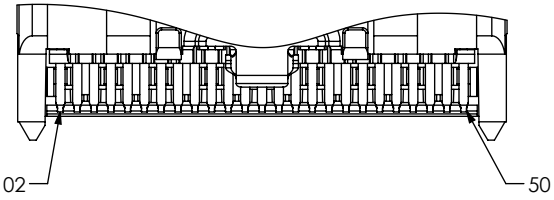
DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION: NVACP PANEL MOUNT ASSEMBLY

DWG. NO. NVACP-XX-X-X-XX.X-X-X-X

BY: KNOWLDEN03/08/2020 SHEET 2 OF 8



**J1**  
(NVACP)

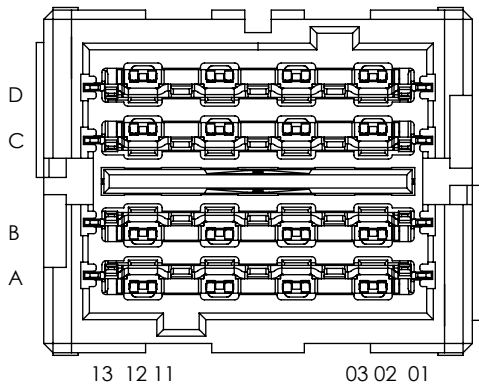


FIG 4  
NVACP-XX-X-4-XX.X-A-X-2 SHOWN

TABLE 2  
SIGNAL MAPPING FOR NVACP-XX-X-4-XX.X-A-1-X (TO ARC6)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	01	B 01		GND	25	C 01		GND	02	D 01		GND	26
A 02	TX1+	TX1+	03	B 02	TX5+	LS1	27	C 02	RX1+	LS9	04	D 02	RX5+	RX1+	28
A 03	TX1-	TX1-	05	B 03	TX5-	LS2	29	C 03	RX1-	LS10	06	D 03	RX5-	RX1-	30
A 04		GND	07	B 04		GND	31	C 04		GND	08	D 04		GND	32
A 05	TX2+	TX2+	09	B 05	TX6+	LS3	33	C 05	RX2+	LS11	10	D 05	RX6+	RX2+	34
A 06	TX2-	TX2-	11	B 06	TX6-	LS4	35	C 06	RX2-	LS12	12	D 06	RX6-	RX2-	36
A 07		GND	13	B 07		GND	37	C 07		GND	14	D 07		GND	38
A 08	TX3+	TX3+	15	B 08	TX7+	LS5	39	C 08	RX3+	LS13	16	D 08	RX7+	RX3+	40
A 09	TX3-	TX3-	17	B 09	TX7-	LS6	41	C 09	RX3-	LS14	18	D 09	RX7-	RX3-	42
A 10		GND	19	B 10		GND	43	C 10		GND	20	D 10		GND	44
A 11	TX4+	TX4+	21	B 11	TX8+	LS7	45	C 11	RX4+	LS15	22	D 11	RX8+	RX4+	46
A 12	TX4-	TX4-	23	B 12	TX8-	LS8	47	C 12	RX4-	LS16	24	D 12	RX8-	RX4-	48
A 13		GND	25	B 13		GND	49	C 13		GND	26	D 13		GND	50

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

TABLE 3  
SIGNAL MAPPING FOR NVACP-XX-X-4-XX.X-A-4-X (TO ARC6)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	25	B 01		GND	49	C 01		GND	26	D 01		GND	50
A 02	TX1+	TX1+	23	B 02	TX5+	LS1	47	C 02	RX1+	LS9	24	D 02	RX5+	RX1+	48
A 03	TX1-	TX1-	21	B 03	TX5-	LS2	45	C 03	RX1-	LS10	22	D 03	RX5-	RX1-	46
A 04		GND	19	B 04		GND	43	C 04		GND	20	D 04		GND	44
A 05	TX2+	TX2+	17	B 05	TX6+	LS3	41	C 05	RX2+	LS11	18	D 05	RX6+	RX2+	42
A 06	TX2-	TX2-	15	B 06	TX6-	LS4	39	C 06	RX2-	LS12	16	D 06	RX6-	RX2-	40
A 07		GND	13	B 07		GND	37	C 07		GND	14	D 07		GND	38
A 08	TX3+	TX3+	11	B 08	TX7+	LS5	35	C 08	RX3+	LS13	12	D 08	RX7+	RX3+	36
A 09	TX3-	TX3-	09	B 09	TX7-	LS6	33	C 09	RX3-	LS14	10	D 09	RX7-	RX3-	34
A 10		GND	07	B 10		GND	31	C 10		GND	08	D 10		GND	32
A 11	TX4+	TX4+	05	B 11	TX8+	LS7	29	C 11	RX4+	LS15	06	D 11	RX8+	RX4+	30
A 12	TX4-	TX4-	03	B 12	TX8-	LS8	27	C 12	RX4-	LS16	04	D 12	RX8-	RX4-	28
A 13		GND	01	B 13		GND	25	C 13		GND	02	D 13		GND	26

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

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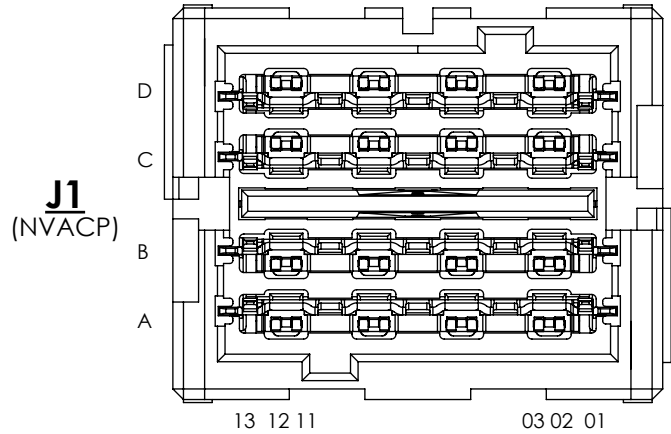
DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

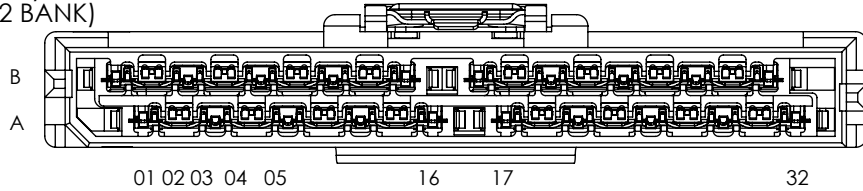
DWG. NO.  
NVACP-XX-X-XX.X-X-X-X

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**J1**  
(NVACP)

**J2**  
(NVAC)  
(2 ROW, 2 BANK)



**FIG 5**  
NVACP-XX-X-4-XX.X-B-X-2 SHOWN

**TABLE 4**  
SIGNAL MAPPING FOR NVACP-XX-X-4-XX.X-B-1-X (TO NVAC)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01	GND		A 01	B 01	GND		B 01	C 01	GND		A 17	D 01	GND		B 17
A 02	TX1+	TX1+	A 02	B 02	TX5+	LS1	B 02	C 02	RX1+	LS9	A 18	D 02	RX5+	RX1+	B 18
A 03	TX1-	TX1-	A 03	B 03	TX5-	LS2	B 03	C 03	RX1-	LS10	A 19	D 03	RX5-	RX1-	B 19
A 04	GND		A 04	B 04	GND		B 04	C 04	GND		A 20	D 04	GND		B 20
A 05	TX2+	TX2+	A 06	B 05	TX6+	LS3	B 06	C 05	RX2+	LS11	A 22	D 05	RX6+	RX2+	B 22
A 06	TX2-	TX2-	A 07	B 06	TX6-	LS4	B 07	C 06	RX2-	LS12	A 23	D 06	RX6-	RX2-	B 23
A 07	GND		A 08	B 07	GND		B 08	C 07	GND		A 24	D 07	GND		B 24
A 08	TX3+	TX3+	A 10	B 08	TX7+	LS5	B 10	C 08	RX3+	LS13	A 26	D 08	RX7+	RX3+	B 26
A 09	TX3-	TX3-	A 11	B 09	TX7-	LS6	B 11	C 09	RX3-	LS14	A 27	D 09	RX7-	RX3-	B 27
A 10	GND		A 12	B 10	GND		B 12	C 10	GND		A 28	D 10	GND		B 28
A 11	TX4+	TX4+	A 14	B 11	TX8+	LS7	B 14	C 11	RX4+	LS15	A 30	D 11	RX8+	RX4+	B 30
A 12	TX4-	TX4-	A 15	B 12	TX8-	LS8	B 15	C 12	RX4-	LS16	A 31	D 12	RX8-	RX4-	B 31
A 13	GND		A 16	B 13	GND		B 16	C 13	GND		A 32	D 13	GND		B 32

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**TABLE 5**  
SIGNAL MAPPING FOR NVACP-XX-X-4-XX.X-B-4-X (TO NVAC)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01	GND		A 16	B 01	GND		B 16	C 01	GND		A 32	D 01	GND		B 32
A 02	TX1+	TX1+	A 15	B 02	TX5+	LS1	B 15	C 02	RX1+	LS9	A 31	D 02	RX5+	RX1+	B 31
A 03	TX1-	TX1-	A 14	B 03	TX5-	LS2	B 14	C 03	RX1-	LS10	A 30	D 03	RX5-	RX1-	B 30
A 04	GND		A 13	B 04	GND		B 13	C 04	GND		A 29	D 04	GND		B 29
A 05	TX2+	TX2+	A 11	B 05	TX6+	LS3	B 11	C 05	RX2+	LS11	A 27	D 05	RX6+	RX2+	B 27
A 06	TX2-	TX2-	A 10	B 06	TX6-	LS4	B 10	C 06	RX2-	LS12	A 26	D 06	RX6-	RX2-	B 26
A 07	GND		A 09	B 07	GND		B 09	C 07	GND		A 25	D 07	GND		B 25
A 08	TX3+	TX3+	A 07	B 08	TX7+	LS5	B 07	C 08	RX3+	LS13	A 23	D 08	RX7+	RX3+	B 23
A 09	TX3-	TX3-	A 06	B 09	TX7-	LS6	B 06	C 09	RX3-	LS14	A 22	D 09	RX7-	RX3-	B 22
A 10	GND		A 05	B 10	GND		B 05	C 10	GND		A 21	D 10	GND		B 21
A 11	TX4+	TX4+	A 03	B 11	TX8+	LS7	B 03	C 11	RX4+	LS15	A 19	D 11	RX8+	RX4+	B 19
A 12	TX4-	TX4-	A 02	B 12	TX8-	LS8	B 02	C 12	RX4-	LS16	A 18	D 12	RX8-	RX4-	B 18
A 13	GND		A 01	B 13	GND		B 01	C 13	GND		A 17	D 13	GND		B 17

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

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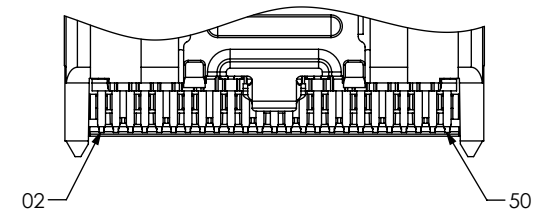
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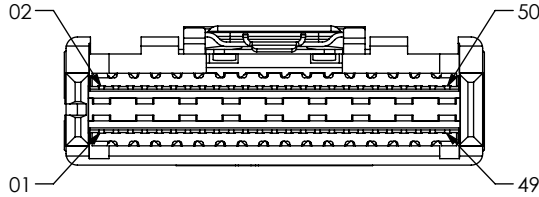
DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

DWG. NO.  
NVACP-XX-X-XX.X-X-X-X

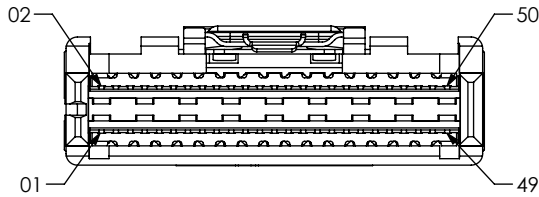
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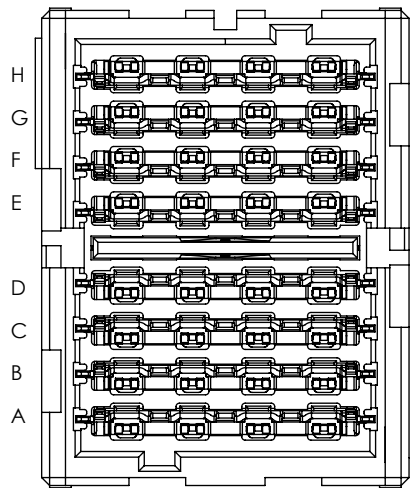
**J2-B**  
(ARC6)  
(16 PAIR)



**J2-A**  
(ARC6)  
(16 PAIR)



**J1**  
(NVACP)



13 12 11      03 02 01

TABLE 9 SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-A-1-X (TO ARC6)															
J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	01	B 01		GND	25	C 01		GND	02	D 01		GND	26
A 02	TX1+	TX1+	03	B 02	TX5+	TX5+	27	C 02	TX9+	LS1	04	D 02	TX13+	LS9	28
A 03	TX1-	TX1-	05	B 03	TX5-	TX5-	29	C 03	TX9-	LS2	06	D 03	TX13-	LS10	30
A 04		GND	07	B 04		GND	31	C 04		GND	08	D 04		GND	32
A 05	TX2+	TX2+	09	B 05	TX6+	TX6+	33	C 05	TX10+	LS3	10	D 05	TX14+	LS11	34
A 06	TX2-	TX2-	11	B 06	TX6-	TX6-	35	C 06	TX10-	LS4	12	D 06	TX14-	LS12	36
A 07		GND	13	B 07		GND	37	C 07		GND	14	D 07		GND	38
A 08	TX3+	TX3+	15	B 08	TX7+	TX7+	39	C 08	TX11+	LS5	16	D 08	TX15+	LS13	40
A 09	TX3-	TX3-	17	B 09	TX7-	TX7-	41	C 09	TX11-	LS6	18	D 09	TX15-	LS14	42
A 10		GND	19	B 10		GND	43	C 10		GND	20	D 10		GND	44
A 11	TX4+	TX4+	21	B 11	TX8+	TX8+	45	C 11	TX12+	LS7	22	D 11	TX16+	LS15	46
A 12	TX4-	TX4-	23	B 12	TX8-	TX8-	47	C 12	TX12-	LS8	24	D 12	TX16-	LS16	48
A 13		GND	25	B 13		GND	49	C 13		GND	26	D 13		GND	50

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

TABLE 10 SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-A-1-X (TO ARC6)															
J1	SIGNAL TYPE		J2-B	J1	SIGNAL TYPE		J2-B	J1	SIGNAL TYPE		J2-B	J1	SIGNAL TYPE		J2-B
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
E 01		GND	01	F 01		GND	25	G 01		GND	02	H 01		GND	26
E 02	RX1+	LS17	03	F 02	RX5+	LS25	27	G 02	RX9+	RX1+	04	H 02	RX13+	RX5+	28
E 03	RX1-	LS18	05	F 03	RX5-	LS26	29	G 03	RX9-	RX1-	06	H 03	RX13-	RX5-	30
E 04		GND	07	F 04		GND	31	G 04		GND	08	H 04		GND	32
E 05	RX2+	LS19	09	F 05	RX6+	LS27	33	G 05	RX10+	RX2+	10	H 05	RX14+	RX6+	34
E 06	RX2-	LS20	11	F 06	RX6-	LS28	35	G 06	RX10-	RX2-	12	H 06	RX14-	RX6-	36
E 07		GND	13	F 07		GND	37	G 07		GND	14	H 07		GND	38
E 08	RX3+	LS21	15	F 08	RX7+	LS29	39	G 08	RX11+	RX3+	16	H 08	RX15+	RX7+	40
E 09	RX3-	LS22	17	F 09	RX7-	LS30	41	G 09	RX11-	RX3-	18	H 09	RX15-	RX7-	42
E 10		GND	19	F 10		GND	43	G 10		GND	20	H 10		GND	44
E 11	RX4+	LS23	21	F 11	RX8+	LS31	45	G 11	RX12+	RX4+	22	H 11	RX16+	RX8+	46
E 12	RX4-	LS24	23	F 12	RX8-	LS32	47	G 12	RX12-	RX4-	24	H 12	RX16-	RX8-	48
E 13		GND	25	F 13		GND	49	G 13		GND	26	H 13		GND	50

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

FIG 6  
NVACP-XX-X-8-XX.X-A-1-2 SHOWN

**PROPRIETARY NOTE**  
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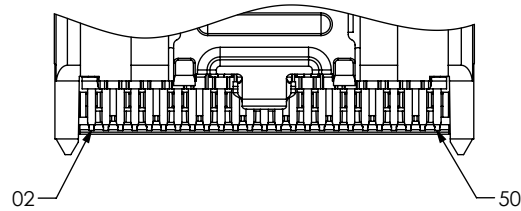
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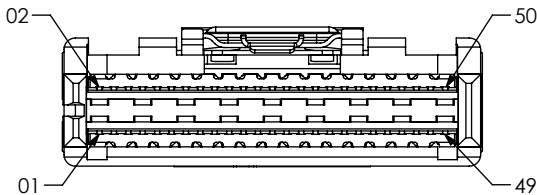
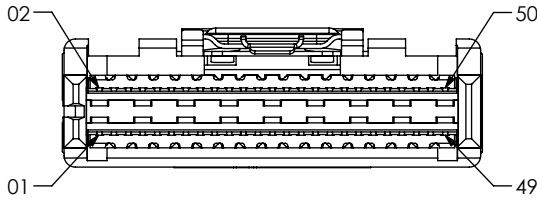
DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

DWG. NO.  
NVACP-XX-X-X-XX.X-X-X-X

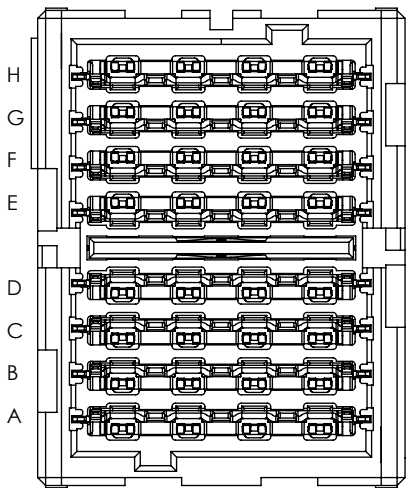
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**J2-B**  
(ARC6)  
(16 PAIR)



**J2-A**  
(ARC6)  
(16 PAIR)



**J1**  
(NVACP)

13 12 11      03 02 01

**TABLE 11**  
SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-A-4-X (TO ARC6)

J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	25	B 01		GND	49	C 01		GND	26	D 01		GND	50
A 02	TX1+	TX1+	23	B 02	TX5+	TX5+	47	C 02	TX9+	LS1	24	D 02	TX13+	LS9	48
A 03	TX1-	TX1-	21	B 03	TX5-	TX5-	45	C 03	TX9-	LS2	22	D 03	TX13-	LS10	46
A 04		GND	19	B 04		GND	43	C 04		GND	20	D 04		GND	44
A 05	TX2+	TX2+	17	B 05	TX6+	TX6+	41	C 05	TX10+	LS3	18	D 05	TX14+	LS11	42
A 06	TX2-	TX2-	15	B 06	TX6-	TX6-	39	C 06	TX10-	LS4	16	D 06	TX14-	LS12	40
A 07		GND	13	B 07		GND	37	C 07		GND	14	D 07		GND	38
A 08	TX3+	TX3+	11	B 08	TX7+	TX7+	35	C 08	TX11+	LS5	12	D 08	TX15+	LS13	36
A 09	TX3-	TX3-	09	B 09	TX7-	TX7-	33	C 09	TX11-	LS6	10	D 09	TX15-	LS14	34
A 10		GND	07	B 10		GND	31	C 10		GND	08	D 10		GND	32
A 11	TX4+	TX4+	05	B 11	TX8+	TX8+	29	C 11	TX12+	LS7	06	D 11	TX16+	LS15	30
A 12	TX4-	TX4-	03	B 12	TX8-	TX8-	27	C 12	TX12-	LS8	04	D 12	TX16-	LS16	28
A 13		GND	01	B 13		GND	25	C 13		GND	02	D 13		GND	26

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**TABLE 12**

SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-A-4-X (TO ARC6)

J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A	J1	SIGNAL TYPE		J2-A
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
E 01		GND	25	F 01		GND	49	G 01		GND	26	H 01		GND	50
E 02	RX1+	LS17	23	F 02	RX5+	LS25	47	G 02	RX9+	RX1+	24	H 02	RX13+	RX5+	48
E 03	RX1-	LS18	21	F 03	RX5-	LS26	45	G 03	RX9-	RX1-	22	H 03	RX13-	RX5-	46
E 04		GND	19	F 04		GND	43	G 04		GND	20	H 04		GND	44
E 05	RX2+	LS19	17	F 05	RX6+	LS27	41	G 05	RX10+	RX2+	18	H 05	RX14+	RX6+	42
E 06	RX2-	LS20	15	F 06	RX6-	LS28	39	G 06	RX10-	RX2-	16	H 06	RX14-	RX6-	40
E 07		GND	13	F 07		GND	37	G 07		GND	14	H 07		GND	38
E 08	RX3+	LS21	11	F 08	RX7+	LS29	35	G 08	RX11+	RX3+	12	H 08	RX15+	RX7+	36
E 09	RX3-	LS22	09	F 09	RX7-	LS30	33	G 09	RX11-	RX3-	10	H 09	RX15-	RX7-	34
E 10		GND	07	F 10		GND	31	G 10		GND	08	H 10		GND	32
E 11	RX4+	LS23	05	F 11	RX8+	LS31	29	G 11	RX12+	RX4+	06	H 11	RX16+	RX8+	30
E 12	RX4-	LS24	03	F 12	RX8-	LS32	27	G 12	RX12-	RX4-	04	H 12	RX16-	RX8-	28
E 13		GND	01	F 13		GND	25	G 13		GND	02	H 13		GND	26

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

FIG 7  
NVACP-XX-X-8-XX.X-A-4-2 SHOWN

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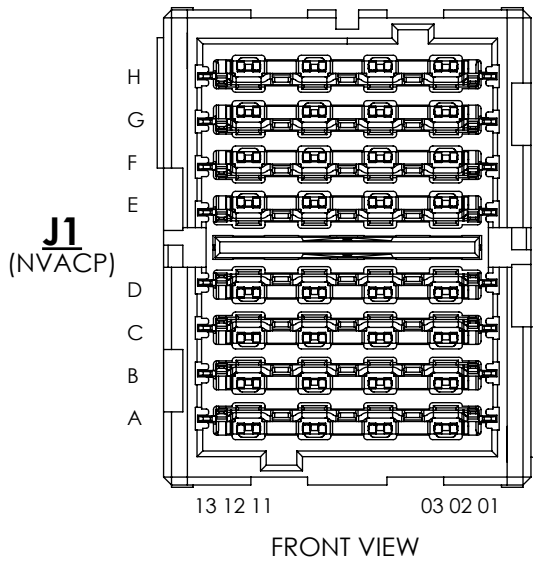
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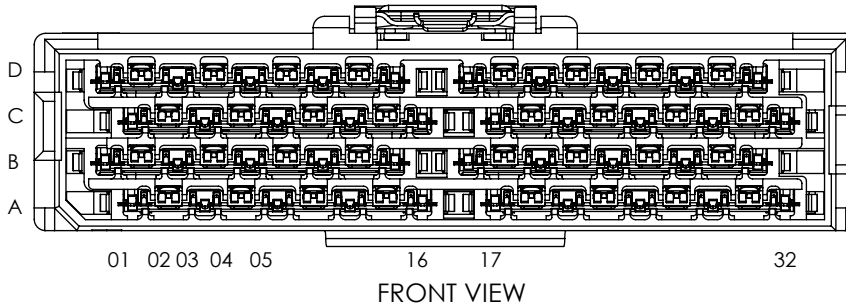
DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

DWG. NO.  
NVACP-XX-X-X-XX.X-X-X-X

BY: KNOWLDEN 03/08/2020 SHEET 6 OF 8



**J1**  
(NVACP)



**J2**  
(NVAC)  
(4 ROW, 2 BANK)

**TABLE 13**  
**SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-B-1-X (TO NVAC)**

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	A 01	B 01		GND	B 01	C 01		GND	C 01	D 01		GND	D 01
A 02	TX1+	TX1+	A 02	B 02	TX5+	TX5+	B 02	C 02	TX9+	LS1	C 02	D 02	TX13+	LS9	D 02
A 03	TX1-	TX1-	A 03	B 03	TX5-	TX5-	B 03	C 03	TX9-	LS2	C 03	D 03	TX13-	LS10	D 03
A 04		GND	A 04	B 04		GND	B 04	C 04		GND	C 04	D 04		GND	D 04
A 05	TX2+	TX2+	A 05	B 05	TX6+	TX6+	B 05	C 05	TX10+	LS3	C 05	D 05	TX14+	LS11	D 05
A 06	TX2-	TX2-	A 06	B 06	TX6-	TX6-	B 06	C 06	TX10-	LS4	C 06	D 06	TX14-	LS12	D 06
A 07		GND	A 07	B 07		GND	B 07	C 07		GND	C 07	D 07		GND	D 07
A 08	TX3+	TX3+	A 08	B 08	TX7+	TX7+	B 08	C 08	TX11+	LS5	C 08	D 08	TX15+	LS13	D 08
A 09	TX3-	TX3-	A 09	B 09	TX7-	TX7-	B 09	C 09	TX11-	LS6	C 09	D 09	TX15-	LS14	D 09
A 10		GND	A 10	B 10		GND	B 10	C 10		GND	C 10	D 10		GND	D 10
A 11	TX4+	TX4+	A 11	B 11	TX8+	TX8+	B 11	C 11	TX12+	LS7	C 11	D 11	TX16+	LS15	D 11
A 12	TX4-	TX4-	A 12	B 12	TX8-	TX8-	B 12	C 12	TX12-	LS8	C 12	D 12	TX16-	LS16	D 12
A 13		GND	A 13	B 13		GND	B 13	C 13		GND	C 13	D 13		GND	D 13
A 14		GND	A 14	B 14		GND	B 14	C 14		GND	C 14	D 14		GND	D 14
A 15		GND	A 15	B 15		GND	B 15	C 15		GND	C 15	D 15		GND	D 15
A 16		GND	A 16	B 16		GND	B 16	C 16		GND	C 16	D 16		GND	D 16

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**TABLE 14**  
**SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-B-1-X (TO NVAC)**

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
E 01		GND	A 17	F 01		GND	B 17	G 01		GND	C 17	H 01		GND	D 17
E 02	RX1+	LS17	A 18	F 02	RX5+	LS25	B 18	G 02	RX9+	RX1+	C 18	H 02	RX13+	RX5+	D 18
E 03	RX1-	LS18	A 19	F 03	RX5-	LS26	B 19	G 03	RX9-	RX1-	C 19	H 03	RX13-	RX5-	D 19
E 04		GND	A 20	F 04		GND	B 20	G 04		GND	C 20	H 04		GND	D 20
E 05	RX2+	LS19	A 21	F 05	RX6+	LS27	B 21	G 05	RX10+	RX2+	C 21	H 05	RX14+	RX6+	D 21
E 06	RX2-	LS20	A 22	F 06	RX6-	LS28	B 22	G 06	RX10-	RX2-	C 22	H 06	RX14-	RX6-	D 22
E 07		GND	A 23	F 07		GND	B 23	G 07		GND	C 23	H 07		GND	D 23
E 08	RX3+	LS21	A 24	F 08	RX7+	LS29	B 24	G 08	RX11+	RX3+	C 24	H 08	RX15+	RX7+	D 24
E 09	RX3-	LS22	A 25	F 09	RX7-	LS30	B 25	G 09	RX11-	RX3-	C 25	H 09	RX15-	RX7-	D 25
E 10		GND	A 26	F 10		GND	B 26	G 10		GND	C 26	H 10		GND	D 26
E 11	RX4+	LS23	A 27	F 11	RX8+	LS31	B 27	G 11	RX12+	RX4+	C 27	H 11	RX16+	RX8+	D 27
E 12	RX4-	LS24	A 28	F 12	RX8-	LS32	B 28	G 12	RX12-	RX4-	C 28	H 12	RX16-	RX8-	D 28
E 13		GND	A 29	F 13		GND	B 29	G 13		GND	C 29	H 13		GND	D 29
E 14		GND	A 30	F 14		GND	B 30	G 14		GND	C 30	H 14		GND	D 30
E 15		GND	A 31	F 15		GND	B 31	G 15		GND	C 31	H 15		GND	D 31
E 16		GND	A 32	F 16		GND	B 32	G 16		GND	C 32	H 16		GND	D 32

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**FIG 8**  
NVACP-XX-X-8-XX.X-B-1-2 SHOWN

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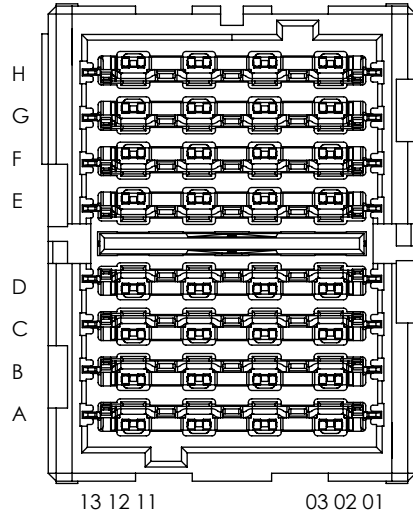
SHEET SCALE: 2:1

DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

DWG. NO.  
NVACP-XX-X-X-XX.X-X-X-X

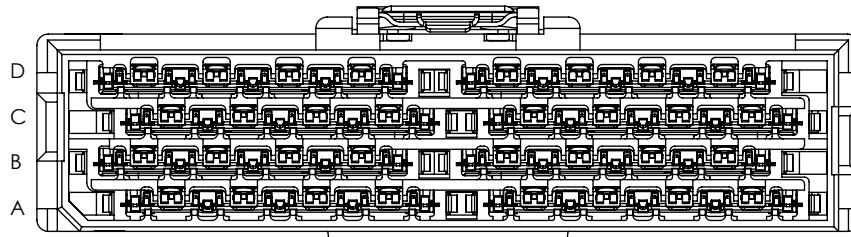
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**J1**  
(NVACP)



FRONT VIEW

**J2**  
(NVAC)  
(4 ROW, 2 BANK)



FRONT VIEW

**TABLE 15**  
SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-B-4-X (TO NVAC)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
A 01		GND	A 16	B 01		GND	B 16	C 01		GND	C 16	D 01		GND	D 16
A 02	TX1+	TX1+	A 15	B 02	TX5+	TX5+	B 15	C 02	TX9+	LS1	C 15	D 02	TX13+	LS9	D 15
A 03	TX1-	TX1-	A 14	B 03	TX5-	TX5-	B 14	C 03	TX9-	LS2	C 14	D 03	TX13-	LS10	D 14
A 04		GND	A 13	B 04		GND	B 13	C 04		GND	C 13	D 04		GND	D 13
A 05	TX2+	TX2+	A 12	B 05	TX6+	TX6+	B 12	C 05	TX10+	LS3	C 12	D 05	TX14+	LS11	D 12
A 06	TX2-	TX2-	A 11	B 06	TX6-	TX6-	B 11	C 06	TX10-	LS4	C 11	D 06	TX14-	LS12	D 11
A 07		GND	A 10	B 07		GND	B 10	C 07		GND	C 10	D 07		GND	D 10
A 08	TX3+	TX3+	A 09	B 08	TX7+	TX7+	B 09	C 08	TX11+	LS5	C 09	D 08	TX15+	LS13	D 09
A 09	TX3-	TX3-	A 08	B 09	TX7-	TX7-	B 08	C 09	TX11-	LS6	C 08	D 09	TX15-	LS14	D 08
A 10		GND	A 07	B 10		GND	B 07	C 10		GND	C 07	D 10		GND	D 07
A 11	TX4+	TX4+	A 06	B 11	TX8+	TX8+	B 06	C 11	TX12+	LS7	C 06	D 11	TX16+	LS15	D 06
A 12	TX4-	TX4-	A 05	B 12	TX8-	TX8-	B 05	C 12	TX12-	LS8	C 05	D 12	TX16-	LS16	D 05
A 13		GND	A 04	B 13		GND	B 04	C 13		GND	C 04	D 13		GND	D 04

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**TABLE 16**  
SIGNAL MAPPING FOR NVACP-XX-X-8-XX.X-B-4-X (TO NVAC)

J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2	J1	SIGNAL TYPE		J2
	-DP	-DS			-DP	-DS			-DP	-DS			-DP	-DS	
E 01		GND	A 32	F 01		GND	B 32	G 01		GND	C 32	H 01		GND	D 32
E 02	RX1+	LS17	A 31	F 02	RX5+	LS25	B 31	G 02	RX9+	RX1+	C 31	H 02	RX13+	RX5+	D 31
E 03	RX1-	LS18	A 30	F 03	RX5-	LS26	B 30	G 03	RX9-	RX1-	C 30	H 03	RX13-	RX5-	D 30
E 04		GND	A 29	F 04		GND	B 29	G 04		GND	C 29	H 04		GND	D 29
E 05	RX2+	LS19	A 28	F 05	RX6+	LS27	B 28	G 05	RX10+	RX2+	C 28	H 05	RX14+	RX6+	D 28
E 06	RX2-	LS20	A 27	F 06	RX6-	LS28	B 27	G 06	RX10-	RX2-	C 27	H 06	RX14-	RX6-	D 27
E 07		GND	A 26	F 07		GND	B 26	G 07		GND	C 26	H 07		GND	D 26
E 08	RX3+	LS21	A 25	F 08	RX7+	LS29	B 25	G 08	RX11+	RX3+	C 25	H 08	RX15+	RX7+	D 25
E 09	RX3-	LS22	A 24	F 09	RX7-	LS30	B 24	G 09	RX11-	RX3-	C 24	H 09	RX15-	RX7-	D 24
E 10		GND	A 23	F 10		GND	B 23	G 10		GND	C 23	H 10		GND	D 23
E 11	RX4+	LS23	A 22	F 11	RX8+	LS31	B 22	G 11	RX12+	RX4+	C 22	H 11	RX16+	RX8+	D 22
E 12	RX4-	LS24	A 21	F 12	RX8-	LS32	B 21	G 12	RX12-	RX4-	C 21	H 12	RX16-	RX8-	D 21
E 13		GND	A 20	F 13		GND	B 20	G 13		GND	C 20	H 13		GND	D 20

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

FIG 9  
NVACP-XX-X-8-XX.X-B-4-2 SHOWN

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DESCRIPTION:  
NVACP PANEL MOUNT ASSEMBLY

DWG. NO.  
NVACP-XX-X-X-XX.X-X-X-X

BY: KNOWLDEN 03/08/2020 SHEET 8 OF 8