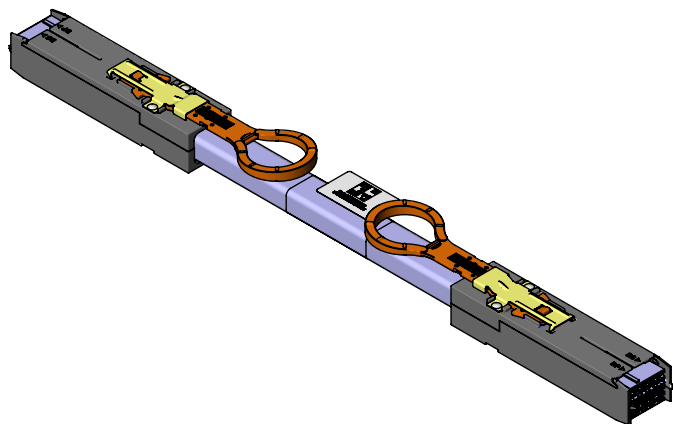


DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]  
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

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

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

DO NOT SCALE FROM THIS PRINT



- SIGNAL TYPE**
- DP: DIFFERENTIAL TWINAX PAIRS ONLY
  - Δ-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

**APPLICATION SPEED**  
(DIFFERENTIAL TWINAX PAIRS ONLY)

- 1: 56G PAM4
- 2: 112G PAM4

**PIN OUT**

- 1: PIN A01 TO PIN A01 (SEE PINOUT TABLES)
- 4: PIN A01 TO PIN N (SEE PINOUT TABLES)

**END 2**

- A: NVACE

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

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

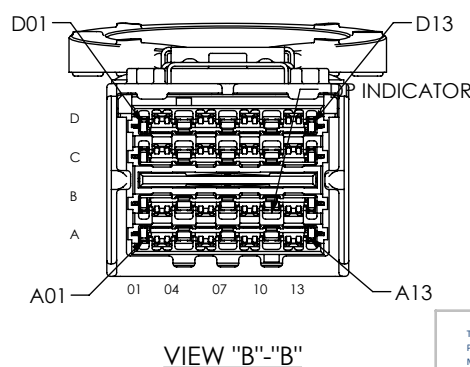
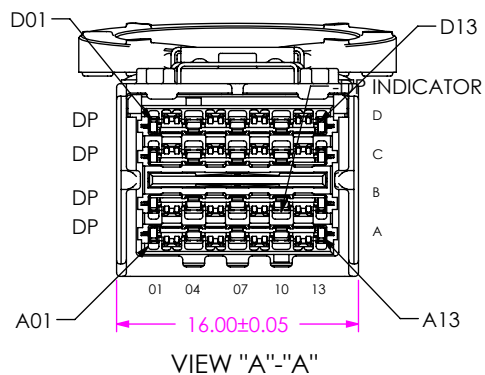
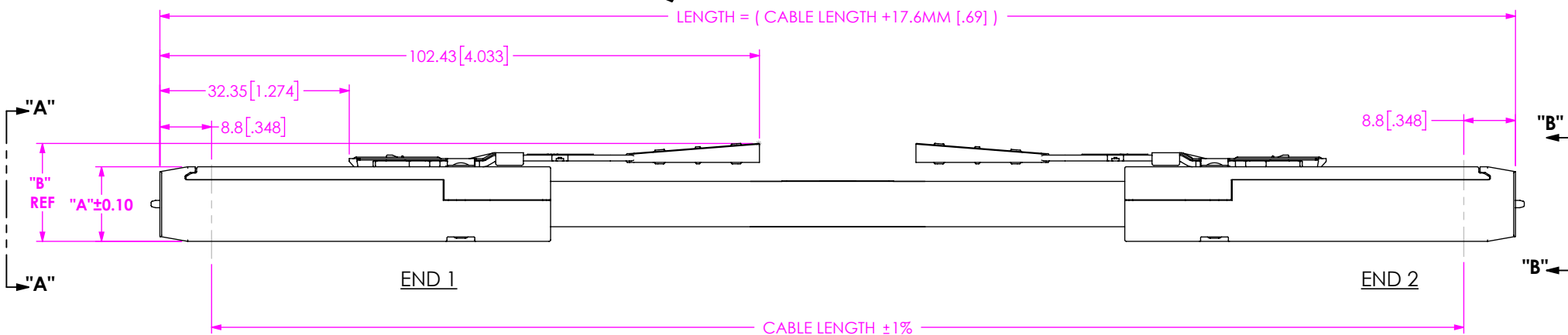


FIG 1  
NVACE-DP-X-4-X-X-A-X-2 SHOWN

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]

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.

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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



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e-Mail: info@SAMTEC.com code 53322

DESCRIPTION: NVACE ASSEMBLY

DWG. NO. NVACE-XX-X-X-X.X-X-X-X

BY: KNOWLDEN 02/07/2020 SHEET 1 OF 5

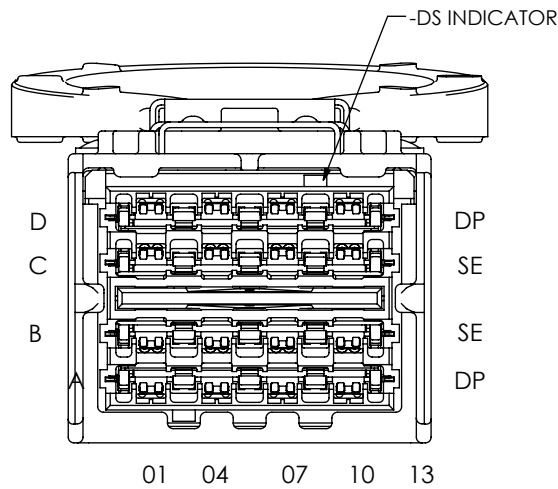
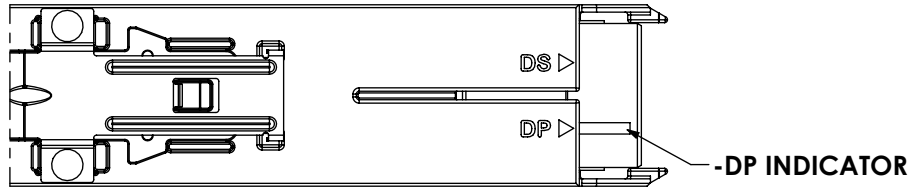
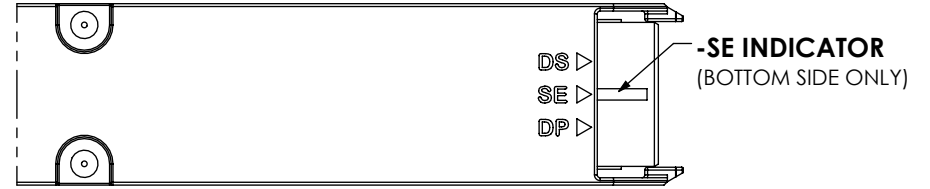
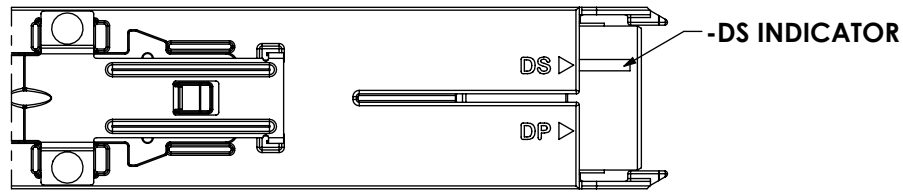


FIG 2  
NVACE-DS-X-4-X-X-A-X-2  
(SAME AS FIG 1, EXCEPT AS SHOWN)

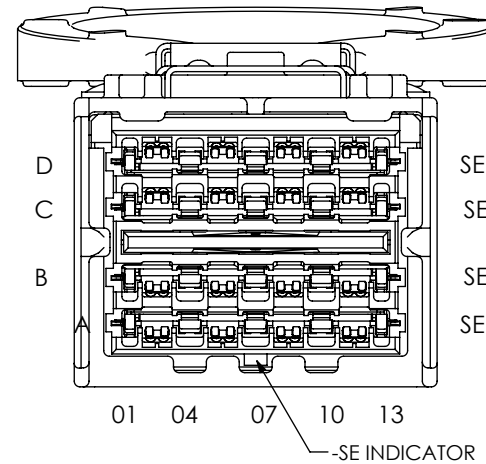


FIG 3  
NVACE-SE-X-4-X-X-A-X-2  
(SAME AS FIG 1, EXCEPT AS SHOWN)

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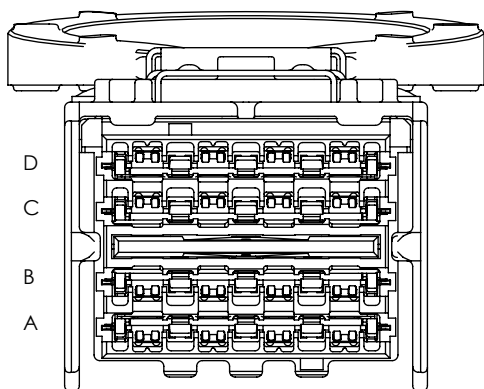
DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION: NVACE ASSEMBLY

DWG. NO. NVACE-XX-X-X-X-X-X-X-X

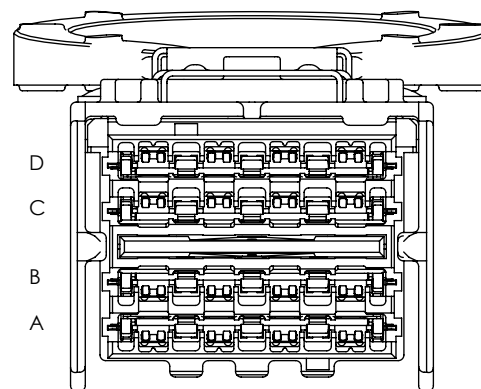
BY: KNOWLDEN 02/07/2020 SHEET 2 OF 5



D  
C  
B  
A

01 04 07 10 13

**J1**  
(NVACE)



D  
C  
B  
A

01 04 07 10 13

**J2**  
(NVACE)

**PINOUT TABLE**

**SIGNAL MAPPING FOR NVACE-XX-X-04-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	
A 01		GND		A 01	B 01		GND		B 01	C 01		GND		C 01	D 01		GND		D 01
A 02	TX1+	TX1+	LS1	A 02	B 02	TX5+	LS1	LS9	B 02	C 02	RX1+	LS9	LS17	C 02	D 02	RX5+	RX1+	LS25	D 02
A 03	TX1-	TX1-	LS2	A 03	B 03	TX5-	LS2	LS10	B 03	C 03	RX1-	LS10	LS18	C 03	D 03	RX5-	RX1-	LS26	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+	LS3	A 05	B 05	TX6+	LS3	LS11	B 05	C 05	RX2+	LS11	LS19	C 05	D 05	RX6+	RX2+	LS27	D 05
A 06	TX2-	TX2-	LS4	A 06	B 06	TX6-	LS4	LS12	B 06	C 06	RX2-	LS12	LS20	C 06	D 06	RX6-	RX2-	LS28	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+	LS5	A 08	B 08	TX7+	LS5	LS13	B 08	C 08	RX3+	LS13	LS21	C 08	D 08	RX7+	RX3+	LS29	D 08
A 09	TX3-	TX3-	LS6	A 09	B 09	TX7-	LS6	LS14	B 09	C 09	RX3-	LS14	LS22	C 09	D 09	RX7-	RX3-	LS30	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+	LS7	A 11	B 11	TX8+	LS7	LS15	B 11	C 11	RX4+	LS15	LS23	C 11	D 11	RX8+	RX4+	LS31	D 11
A 12	TX4-	TX4-	LS8	A 12	B 12	TX8-	LS8	LS16	B 12	C 12	RX4-	LS16	LS24	C 12	D 12	RX8-	RX4-	LS32	D 12
A 13		GND		A 13	B 13		GND		B 13	C 13		GND		C 13	D 13		GND		D 13

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

**PINOUT TABLE**

**SIGNAL MAPPING FOR NVACE-XX-X-04-X.X-A-4-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	
A 01		GND		D 01	B 01		GND		C 01	C 01		GND		B 01	D 01		GND		A 01
A 02	TX1+	TX1+	LS1	D 02	B 02	TX5+	LS1	LS9	C 02	C 02	RX1+	LS9	LS17	B 02	D 02	RX5+	RX1+	LS25	A 02
A 03	TX1-	TX1-	LS2	D 03	B 03	TX5-	LS2	LS10	C 03	C 03	RX1-	LS10	LS18	B 03	D 03	RX5-	RX1-	LS26	A 03
A 04		GND		D 04	B 04		GND		C 04	C 04		GND		B 04	D 04		GND		A 04
A 05	TX2+	TX2+	LS3	D 05	B 05	TX6+	LS3	LS11	C 05	C 05	RX2+	LS11	LS19	B 05	D 05	RX6+	RX2+	LS27	A 05
A 06	TX2-	TX2-	LS4	D 06	B 06	TX6-	LS4	LS12	C 06	C 06	RX2-	LS12	LS20	B 06	D 06	RX6-	RX2-	LS28	A 06
A 07		GND		D 07	B 07		GND		C 07	C 07		GND		B 07	D 07		GND		A 07
A 08	TX3+	TX3+	LS5	D 08	B 08	TX7+	LS5	LS13	C 08	C 08	RX3+	LS13	LS21	B 08	D 08	RX7+	RX3+	LS29	A 08
A 09	TX3-	TX3-	LS6	D 09	B 09	TX7-	LS6	LS14	C 09	C 09	RX3-	LS14	LS22	B 09	D 09	RX7-	RX3-	LS30	A 09
A 10		GND		D 10	B 10		GND		C 10	C 10		GND		B 10	D 10		GND		A 10
A 11	TX4+	TX4+	LS7	D 11	B 11	TX8+	LS7	LS15	C 11	C 11	RX4+	LS15	LS23	B 11	D 11	RX8+	RX4+	LS31	A 11
A 12	TX4-	TX4-	LS8	D 12	B 12	TX8-	LS8	LS16	C 12	C 12	RX4-	LS16	LS24	B 12	D 12	RX8-	RX4-	LS32	A 12
A 13		GND		D 13	B 13		GND		C 13	C 13		GND		B 13	D 13		GND		A 13

ALL GROUNDS ARE COMMON AND CONNECTED TO CABLE SHIELD

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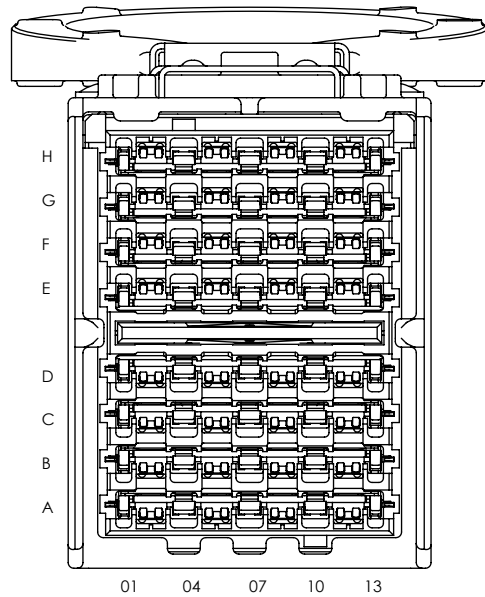
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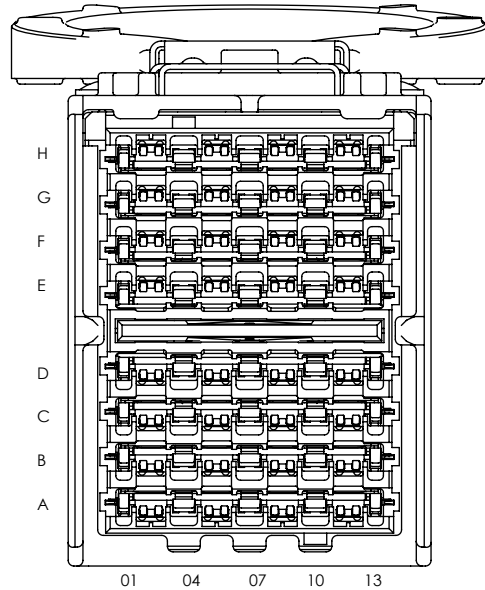
DESCRIPTION: NVACE ASSEMBLY

DWG. NO. NVACE-XX-X-X-X-X-X-X

BY: KNOWLDEN02/07/2020 SHEET 3 OF 5



**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	J1	SIGNAL TYPE			J2
	-DP	-DS	-SE			-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		GND		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	TX13+	LS9	LS25	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	TX13-	LS10	LS26	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+	LS3	A 05	B 05	TX6+	TX6+	LS11	B 05	C 05	TX10+	LS3	LS19	C 05	D 05	TX14+	LS11	LS27	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	TX14-	LS12	LS28	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+	LS5	A 08	B 08	TX7+	TX7+	LS13	B 08	C 08	TX11+	LS5	LS21	C 08	D 08	TX15+	LS13	LS29	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	TX15-	LS14	LS30	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+	LS7	A 11	B 11	TX8+	TX8+	LS15	B 11	C 11	TX12+	LS7	LS23	C 11	D 11	TX16+	LS15	LS31	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	TX16-	LS16	LS32	D 12
A 13		GND		A 13	B 13		GND		B 13	C 13		GND		C 13	D 13		GND		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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SHEET SCALE: 2:1

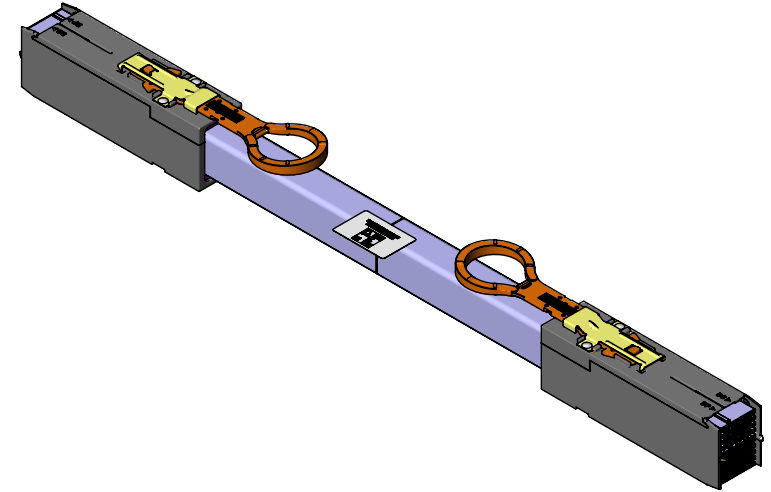
DESCRIPTION:	NVACE ASSEMBLY
DWG. NO.	NVACE-XX-X-X-X-X-X-X
BY:	KNOWL DEN02/07/2020 SHEET 4 OF 5

**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
	-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
	-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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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 5 OF 5