

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

DO NOT
SCALE FROM
THIS PRINT



THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

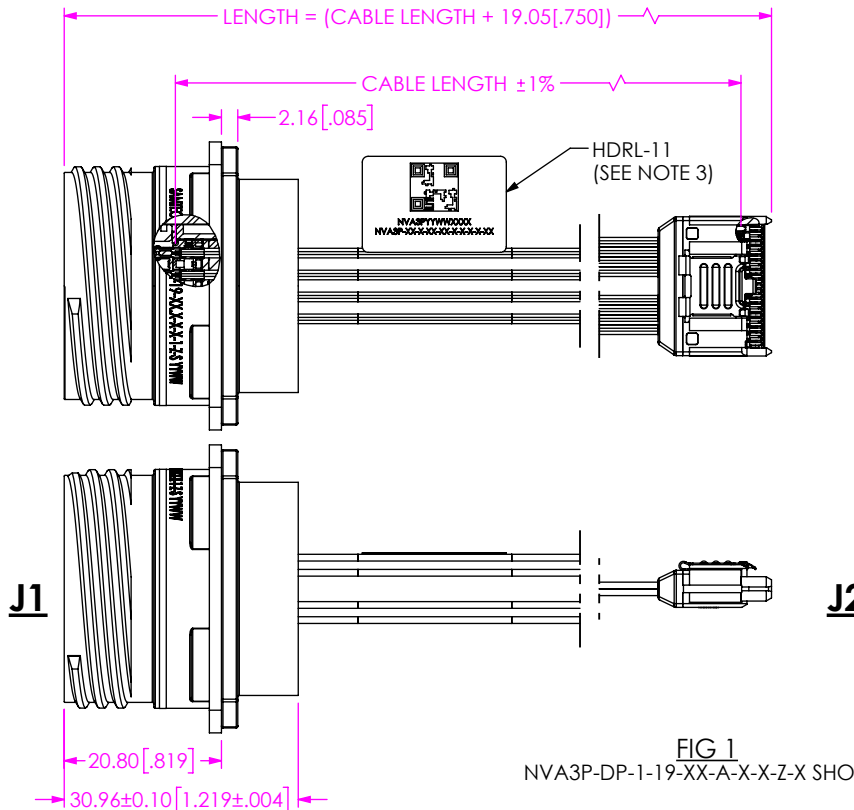
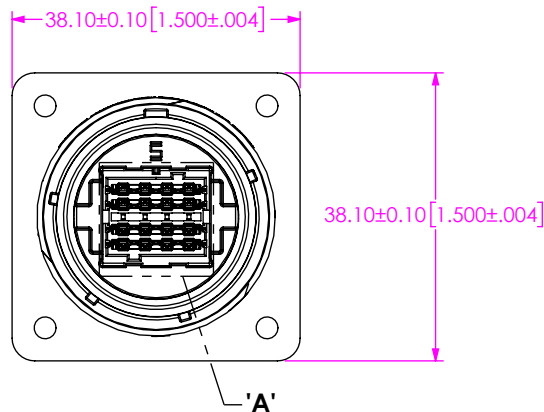
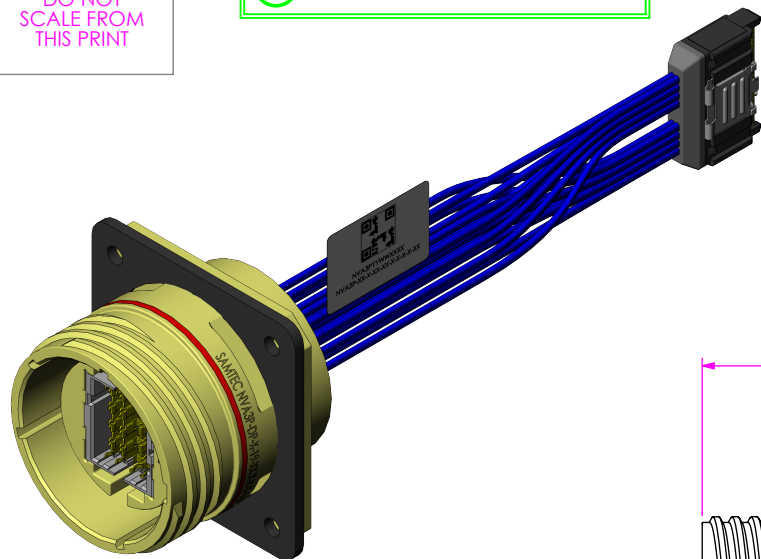


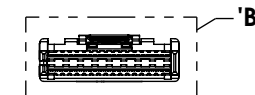
FIG 1
NVA3P-DP-1-19-XX-A-X-X-Z-X SHOWN

NOTES:

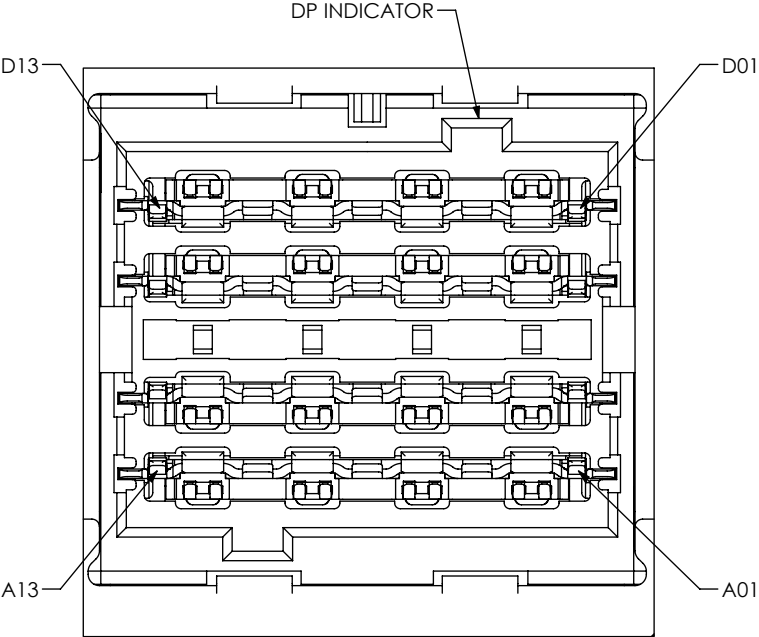
1. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
3. PLACE HDRL-11 (LABEL) ON CABLE WHERE SHOWN. LABEL TO CONTAIN:
TOP SIDE - QR CODE
LINE 1 - SERIAL NUMBER "NVA3PYYWWXXXX"
LINE 2 - PART NUMBER "NVA3P-XX-X-XX-XX-X-X-X-X-X"
4. PANEL THICKNESS RANGE: 1.60[.063] - 3.20[.126]
5. CABLE LENGTHS LONGER THAN 40 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
6. MAX STANDARD CABLE LENGTH IS 20.0 INCHES.
FOR LENGTHS GREATER THAN 20.0 INCHES, CONTACT HDR@SAMTEC.COM.
7. FOR PACKAGING REQUIREMENTS REFERENCE PACKAGING MANUAL.

- SIGNAL TYPE
-DP: DIFFERENTIAL TWINAX PAIRS ONLY
- TWINAX CABLE STYLE
-1: 34100
*-2: 30100
*-3: 3492
*-4: 3485
- SHELL SIZE
-19: 4 ROW
- CABLE LENGTH
-06: (6.0 INCHES) CABLE
-10: (10.0 INCHES) CABLE
-12: (12.0 INCHES) CABLE
-20: (20.0 INCHES) CABLE
STANDARD LENGTH
(SEE NOTES 5 & 6)
- J2 END
-A: QTY 1 ARC6
- IP SEALING
-S: SEALED
BLANK FOR NO SEALED
- FINISH
-Z: BLACK ZINC NICKEL
- APPLICATION SPEED
(DIFFERENTIAL TWINAX PAIRS ONLY)
-1: UP TO 128G 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)

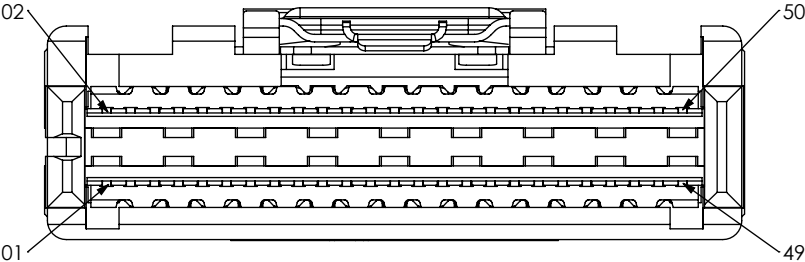
(*=NOT TOOLED)



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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1 SHELL: ALUMINUM INSULATOR: LCP, COLOR: BLACK CONTACT: CU ALLOY GROUND PLANE: CU ALLOY LOCKING CLIP: CU ALLOY ALL CONTACT SURFACES: 30 µ" GOLD		DESCRIPTION: NVACP PANEL MOUNT ASSEMBLY DWG. NO. NVA3P-XX-X-XX-XX-X-X-X-X-X	
BY: ANN H		9/5/2022 SHEET 1 OF 4	



DETAIL 'A'
SCALE 5 : 1



DETAIL 'B'
SCALE 5 : 1

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DO NOT SCALE DRAWING		DESCRIPTION: NVACP PANEL MOUNT ASSEMBLY	
SHEET SCALE: 1:1		DWG. NO. NVA3P-XX-X-XX-XX-X-X-X-X-X	
BY: ANN H		9/5/2022	SHEET 2 OF 4

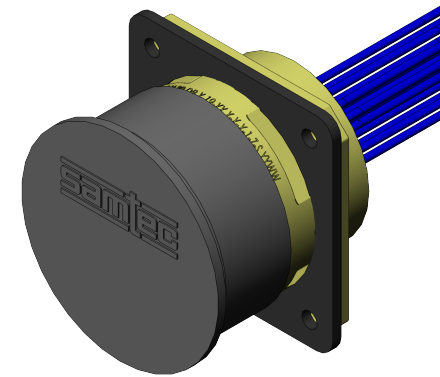
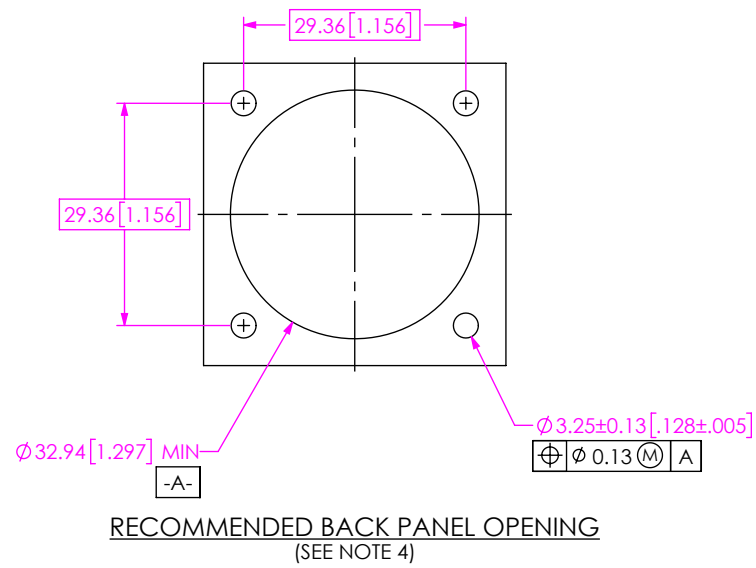
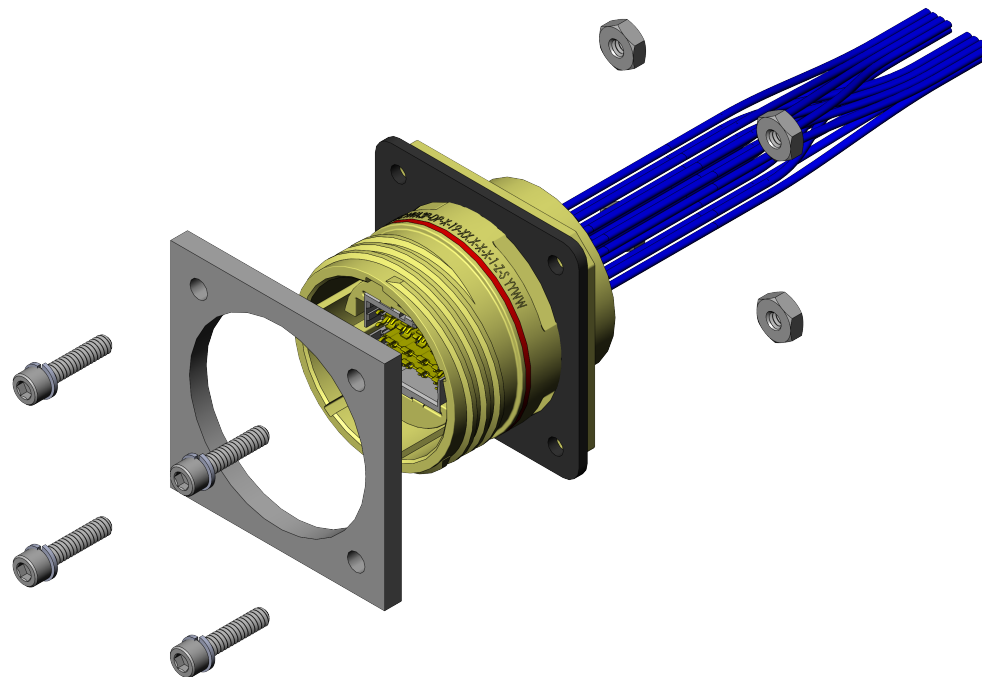
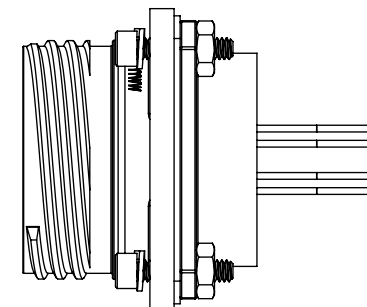


FIG 3
NVA3P-XX-1-19-XX-X-X-Z-X END 1 SHOWN WITH PACKAGING CAP



INSTALL NVA3P ONTO PANEL
MOUNTING FASTNERS NOT INCLUDED



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DO NOT SCALE DRAWING		DESCRIPTION: NVACP PANEL MOUNT ASSEMBLY	
SHEET SCALE: 1:1		DWG. NO. NVA3P-XX-X-XX-XX-X-X-X-X	
BY: ANN H		9/5/2022	SHEET 3 OF 4

TABLE 1**SIGNAL MAPPING FOR NVA3P-XX-X-19-XX-A-1-X-X-X (TO ARC6)**

J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2
	-DP			-DP			-DP			-DP	
A 01	GND	01	B 01	GND	25	C 01	GND	02	D 01	GND	26
A 02	TX1+	03	B 02	TX5+	27	C 02	RX1+	04	D 02	RX5+	28
A 03	TX1-	05	B 03	TX5-	29	C 03	RX1-	06	D 03	RX5-	30
A 04	GND	07	B 04	GND	31	C 04	GND	08	D 04	GND	32
A 05	TX2+	09	B 05	TX6+	33	C 05	RX2+	10	D 05	RX6+	34
A 06	TX2-	11	B 06	TX6-	35	C 06	RX2-	12	D 06	RX6-	36
A 07	GND	13	B 07	GND	37	C 07	GND	14	D 07	GND	38
A 08	TX3+	15	B 08	TX7+	39	C 08	RX3+	16	D 08	RX7+	40
A 09	TX3-	17	B 09	TX7-	41	C 09	RX3-	18	D 09	RX7-	42
A 10	GND	19	B 10	GND	43	C 10	GND	20	D 10	GND	44
A 11	TX4+	21	B 11	TX8+	45	C 11	RX4+	22	D 11	RX8+	46
A 12	TX4-	23	B 12	TX8-	47	C 12	RX4-	24	D 12	RX8-	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 2**SIGNAL MAPPING FOR NVA3P-XX-X-19-XX-A-4-X-X-X (TO ARC6)**

J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2	J1	SIGNAL TYPE	J2
	-DP			-DP			-DP			-DP	
A 01	GND	25	B 01	GND	49	C 01	GND	26	D 01	GND	50
A 02	TX1+	23	B 02	TX5+	47	C 02	RX1+	24	D 02	RX5+	48
A 03	TX1-	21	B 03	TX5-	45	C 03	RX1-	22	D 03	RX5-	46
A 04	GND	19	B 04	GND	43	C 04	GND	20	D 04	GND	44
A 05	TX2+	17	B 05	TX6+	41	C 05	RX2+	18	D 05	RX6+	42
A 06	TX2-	15	B 06	TX6-	39	C 06	RX2-	16	D 06	RX6-	40
A 07	GND	13	B 07	GND	37	C 07	GND	14	D 07	GND	38
A 08	TX3+	11	B 08	TX7+	35	C 08	RX3+	12	D 08	RX7+	36
A 09	TX3-	09	B 09	TX7-	33	C 09	RX3-	10	D 09	RX7-	34
A 10	GND	07	B 10	GND	31	C 10	GND	08	D 10	GND	32
A 11	TX4+	05	B 11	TX8+	29	C 11	RX4+	06	D 11	RX8+	30
A 12	TX4-	03	B 12	TX8-	27	C 12	RX4-	04	D 12	RX8-	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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 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
 NVACP PANEL MOUNT ASSEMBLY

DWG. NO.
 NVA3P-XX-X-XX-XX-X-X-X-X

BY: ANN H 9/5/2022 SHEET 4 OF 4