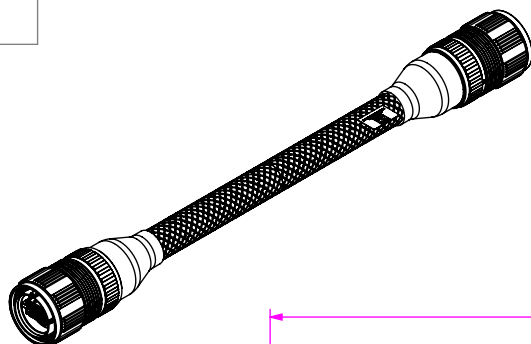


DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

DO NOT
SCALE FROM
THIS PRINT



THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING



NVA3E-XX-X-XX-X.X-X-X-X-X-X

SIGNAL TYPE

-DP: DIFFERENTIAL TWINAX PAIRS ONLY

CABLE STYLE

-1: 34100 TWINAX
*2: 30100 TWINAX
-5: 28100 TWINAX

SHELL SIZE

-19: 4 ROW

CABLE LENGTH

-0.5: (0.5 M) CABLE
-1.0: (1.0 M) CABLE
-2.0: (2.0 M) CABLE
-3.0: (3.0 M) CABLE
STANDARD LENGTH
(SEE NOTES 4 & 5)

END 2

-A: NVA3E

IP SEALING

-S: SEALED
BLANK FOR NO SEALED

FINISH

-Z: BLACK ZINC NICKEL
*F: ELECTROLESS NICKEL FINISH

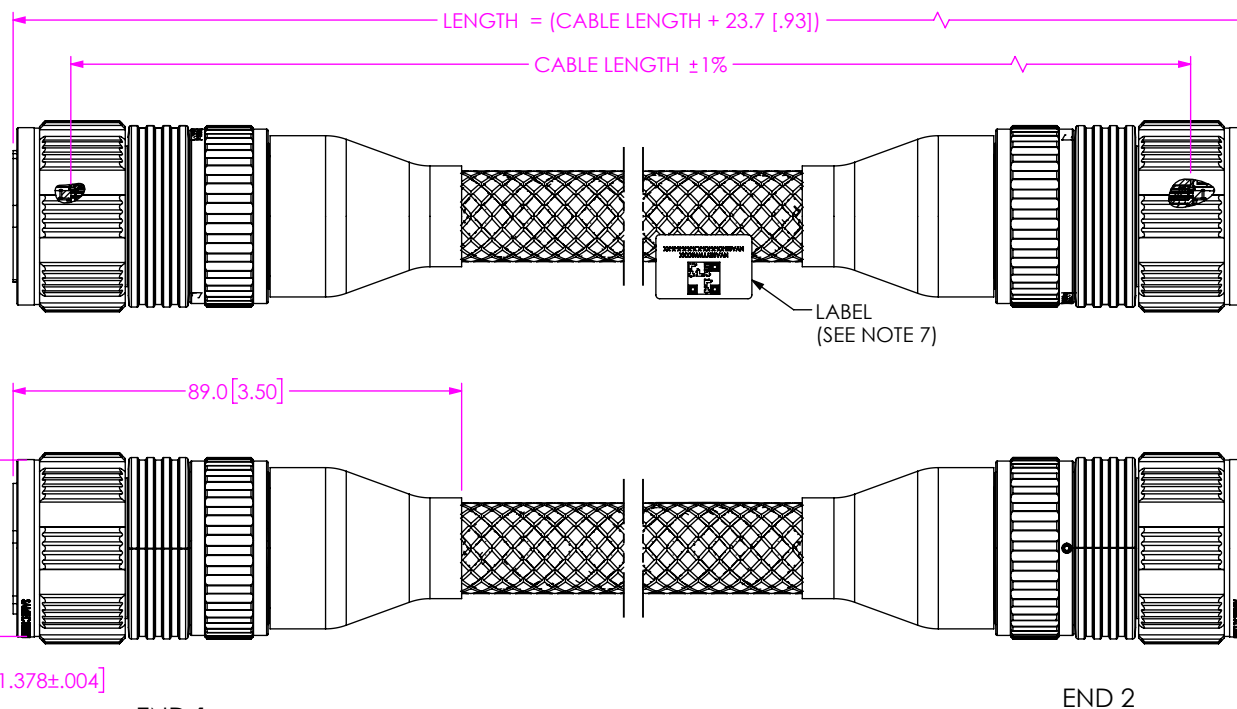
SPEED

(DIFFERENTIAL TWINAX
PAIRS ONLY)
-1: UP TO 128G PAM4

PIN OUT

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

(* = NOT TOOLED)



END 1

END 2

FIG 1

NVA3E-DP-X-19-X.X-A-X-X-X-X-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. 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 3 METERS.
FOR LENGTHS GREATER THAN 3 METERS, CONTACT HDR@SAMTEC.COM.
6. FOR PACKAGING REQUIREMENTS REFERENCE PACKAGING MANUAL.
7. LABEL TO BE CENTERED ON CABLE AS SHOWN. LABEL TO CONTAIN:
TOP SIDE - QR CODE
LINE 1 - SERIAL NUMBER "NVA3EYYWXXXX"
LINE 2 - PART NUMBER "NVA3E-XX-X-XX-X.X-X-X-X-X-X"

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DO NOT SCALE DRAWING
SHEET SCALE: 2:3

MATERIAL:
SHELL: ALUMINUM
INSULATOR: THERMAL PLASTIC, BLACK
CONTACTS: CU ALLOY
GROUND PLANE: CU ALLOY
ALL CONTACT SURFACES: 30 µ" GOLD

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:

NVA3E ASSEMBLY

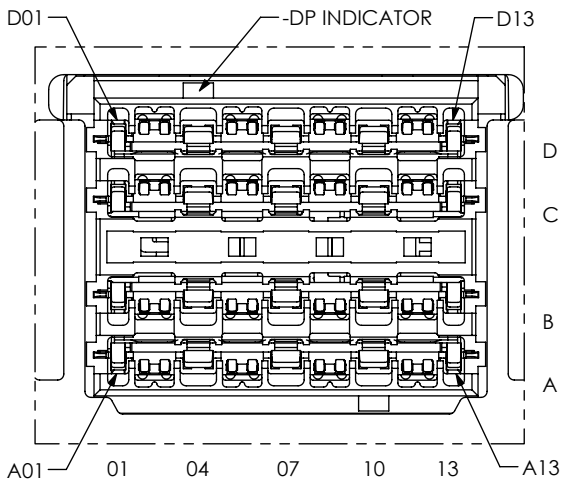
DWG. NO.

NVA3E-XX-X-XX-X.X-X-X-X-X-X

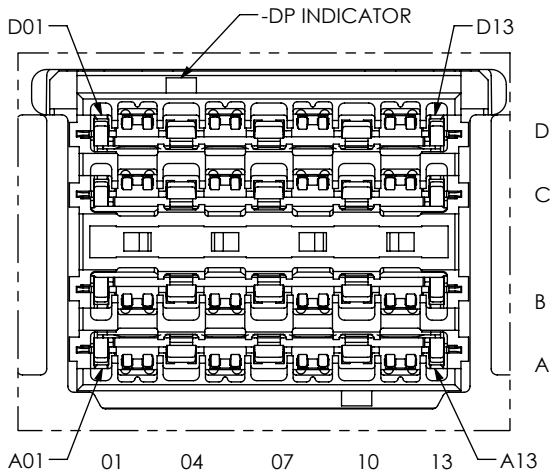
BY: ANN H

9/6/2022

SHEET 1 OF 3



DETAIL 'A'
SCALE 4 : 1



DETAIL 'B'
SCALE 4 : 1



FIG 2
NVA3E-XX-X-19-X.X-A-X-X-Z-X SHOWN WITH PACKAGING CAP

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DO NOT SCALE DRAWING		DESCRIPTION: NVA3E ASSEMBLY	
SHEET SCALE: 1:2		DWG. NO. NVA3E-XX-X-XX-X.X-X-X-X-X	
BY: ANN H		9/6/2022	SHEET 2 OF 3

PINOUT TABLE

SIGNAL MAPPING FOR NVA3E-XX-X-19-X.X-A-1-X-X-X

J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2
A 01	GND	A 01	B 01	GND	B 01	C 01	GND	C 01	D 01	GND	D 01
A 02	TX1+	A 02	B 02	TX5+	B 02	C 02	RX1+	C 02	D 02	RX5+	D 02
A 03	TX1-	A 03	B 03	TX5-	B 03	C 03	RX1-	C 03	D 03	RX5-	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+	A 05	B 05	TX6+	B 05	C 05	RX2+	C 05	D 05	RX6+	D 05
A 06	TX2-	A 06	B 06	TX6-	B 06	C 06	RX2-	C 06	D 06	RX6-	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+	A 08	B 08	TX7+	B 08	C 08	RX3+	C 08	D 08	RX7+	D 08
A 09	TX3-	A 09	B 09	TX7-	B 09	C 09	RX3-	C 09	D 09	RX7-	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+	A 11	B 11	TX8+	B 11	C 11	RX4+	C 11	D 11	RX8+	D 11
A 12	TX4-	A 12	B 12	TX8-	B 12	C 12	RX4-	C 12	D 12	RX8-	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 NVA3E-XX-X-19-X.X-A-4-X-X-X

J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2	J1	SIGNAL TYPE -DP	J2
A 01	GND	D 01	B 01	GND	C 01	C 01	GND	B 01	D 01	GND	A 01
A 02	TX1+	D 02	B 02	TX5+	C 02	C 02	RX1+	B 02	D 02	RX5+	A 02
A 03	TX1-	D 03	B 03	TX5-	C 03	C 03	RX1-	B 03	D 03	RX5-	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+	D 05	B 05	TX6+	C 05	C 05	RX2+	B 05	D 05	RX6+	A 05
A 06	TX2-	D 06	B 06	TX6-	C 06	C 06	RX2-	B 06	D 06	RX6-	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+	D 08	B 08	TX7+	C 08	C 08	RX3+	B 08	D 08	RX7+	A 08
A 09	TX3-	D 09	B 09	TX7-	C 09	C 09	RX3-	B 09	D 09	RX7-	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+	D 11	B 11	TX8+	C 11	C 11	RX4+	B 11	D 11	RX8+	A 11
A 12	TX4-	D 12	B 12	TX8-	C 12	C 12	RX4-	B 12	D 12	RX8-	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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DO NOT SCALE DRAWING

SHEET SCALE: 1:2



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DESCRIPTION:
NVA3E ASSEMBLY

DWG. NO. NVA3E-XX-X-XX-X.X-X-X-X-X

BY: ANN H 9/6/2022 SHEET 3 OF 3