

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

NVAC-XX-X-XX-X-XX.X-XX-X-X

STYLE
-DP: 4 PAIRS PER WAFER

OPTION
-L: LATCH

CABLE STYLE
-1: 34100 (TwinAx)
*-2: 30100 (TwinAx)
-3: 3492 (TwinAx)
*-4: 3485 (TwinAx)
-5: 3492 (ThinAx)

PIN OUT
-1: PIN A01 TO PIN AN
(N EQUALS LAST POSITION)
(SEE TABLE 1)

END 2
-01: NVAC

ROWS
-02: 2 ROW
-03: 3 ROW
-04: 4 ROW
*-05: 5 ROW
*-06: 6 ROW

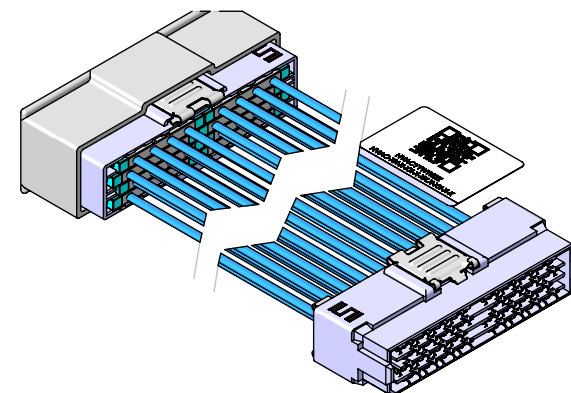
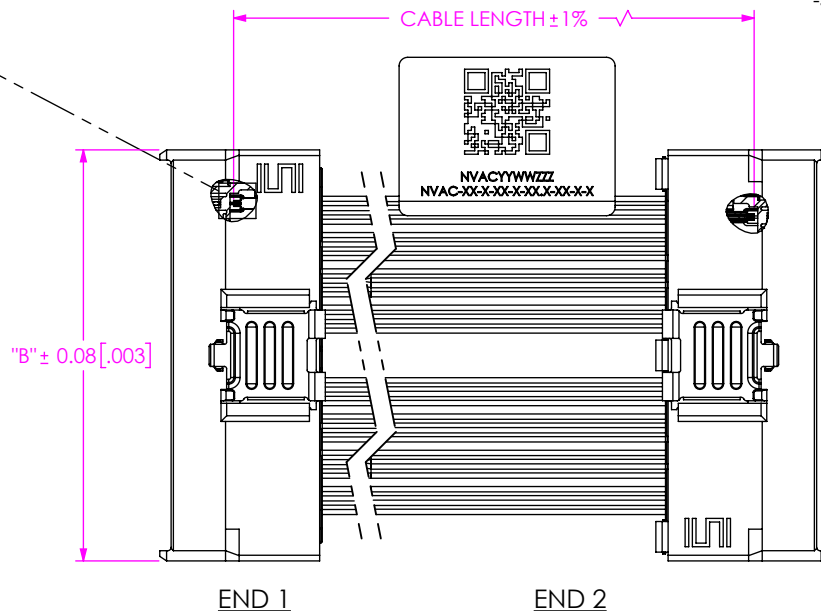
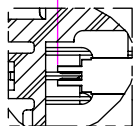
CABLE LENGTH
-XX.X (INCHES)
(06.0 INCHES MINIMUM, SEE NOTE 3)

BANKS
-1: 1 BANK
-2: 2 BANK
*-3: 3 BANK

(* = NOT TOOLED)

DO NOT SCALE FROM THIS PRINT

CABLE LENGTH ±1%



BANKS	N	"B"
-1	16	20.25 [.797]
-2	32	36.25 [1.427]
-3	48	52.25 [2.057]

ROWS	"A"
-02	4.40 [0.173]
-03	6.20 [0.244]
-04	8.00 [0.315]
-05	9.80 [0.386]
-06	11.60 [0.457]

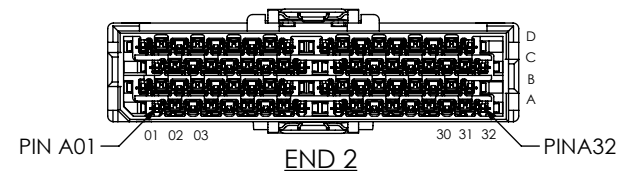
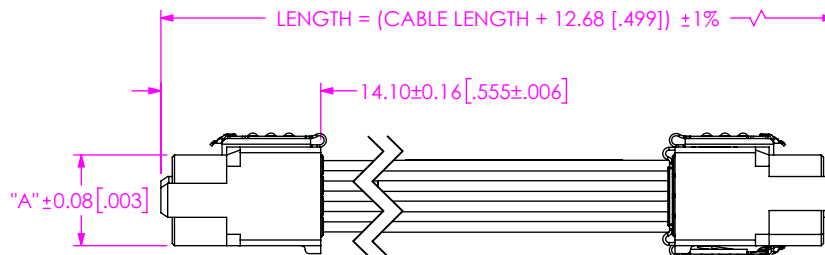
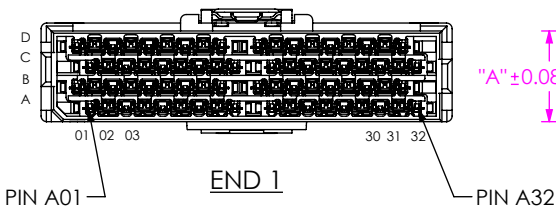


FIG 1
NVAC-DP-X-04-2-XX.X-01-1-L SHOWN

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. CABLE LENGTHS LONGER THAN 40 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
4. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

MATERIAL:
INSULATOR: LCP
CONTACT: COPPER ALLOY
GROUND PLANE: COPPER ALLOY
PLATING: 30µ" GOLD IN CONTACT AREA
LATCH: SS



520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 53322

DESCRIPTION: NVAC ASSEMBLY

DWG. NO. NVAC-XX-X-XX-X-XX.X-XX-X-X

BY: B BLESSING 09/26/2017 SHEET 1 OF 3

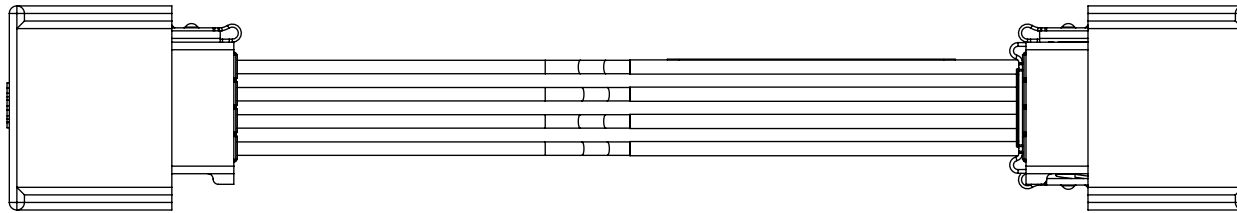


FIG 2
NVAC-DP-X-04-2-XX.X-01-1-L SHOWN
SHOWN WITH PROTECTIVE CAPS

TABLE 3: PAIR PIN-OUT																
ROW	BANK 1															
D	GND4	PAIR	GND4	GND4	PAIR	GND4	GND4	PAIR	GND4	GND4	PAIR	GND4	GND4	PAIR	GND4	
C	GND3	PAIR	GND3	GND3	PAIR	GND3	GND3	PAIR	GND3	GND3	PAIR	GND3	GND3	PAIR	GND3	
B	GND2	PAIR	GND2	GND2	PAIR	GND2	GND2	PAIR	GND2	GND2	PAIR	GND2	GND2	PAIR	GND2	
A	GND1	PAIR	GND1	GND1	PAIR	GND1	GND1	PAIR	GND1	GND1	PAIR	GND1	GND1	PAIR	GND1	
COLUMN	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

TABLE 4: PAIR PIN-OUT																
ROW	BANK 2															
D	GND8	PAIR	GND8	GND8	PAIR	GND8	GND8	PAIR	GND8	GND8	PAIR	GND8	GND8	PAIR	GND8	
C	GND7	PAIR	GND7	GND7	PAIR	GND7	GND7	PAIR	GND7	GND7	PAIR	GND7	GND7	PAIR	GND7	
B	GND6	PAIR	GND6	GND6	PAIR	GND6	GND6	PAIR	GND6	GND6	PAIR	GND6	GND6	PAIR	GND6	
A	GND5	PAIR	GND5	GND5	PAIR	GND5	GND5	PAIR	GND5	GND5	PAIR	GND5	GND5	PAIR	GND5	
COLUMN	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

TABLE 5: PAIR PIN-OUT																
ROW	BANK 3															
D	GND12	PAIR	GND12	GND12	PAIR	GND12	GND12	PAIR	GND12	GND12	PAIR	GND12	GND12	PAIR	GND12	
C	GND11	PAIR	GND11	GND11	PAIR	GND11	GND11	PAIR	GND11	GND11	PAIR	GND11	GND11	PAIR	GND11	
B	GND10	PAIR	GND10	GND10	PAIR	GND10	GND10	PAIR	GND10	GND10	PAIR	GND10	GND10	PAIR	GND10	
A	GND9	PAIR	GND9	GND9	PAIR	GND9	GND9	PAIR	GND9	GND9	PAIR	GND9	GND9	PAIR	GND9	
COLUMN	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.



520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION: NVAC ASSEMBLY

DWG. NO. NVAC-XX-X-XX-X-XX.X-XX-X-X

BY: B BLESSING 09/26/2017 SHEET 2 OF 3

TABLE 6: SIGNAL MAPPING (NVAC-DP-X-XX-1-XX.X-01-1-X)																	
WIRING OPTION	BANK 1 POSITIONS																
-1 (PIN 01 TO PIN 16)	END 1	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
		GND1	PAIR		GND1		PAIR		GND1		PAIR		GND1		PAIR		GND1
	END 2	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01
WITHIN THIS CABLE ASSEMBLY, POSITIONS LABELED WITH A SPECIFIC GND# ARE COMMON AND TIED TO TWINAX SHIELD																	
ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A COMMON GND REFERENCE TYING ALL GND#'s TOGETHER																	

TABLE 7: SIGNAL MAPPING (NVAC-DP-X-XX-2-XX.X-01-1-X)																	
WIRING OPTION	BANK 1 POSITIONS																
-1 (PIN 01 TO PIN 32)	END 1	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
		GND1	PAIR		GND1		PAIR		GND1		PAIR		GND1		PAIR		GND1
	END 2	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
	BANK 2 POSITIONS																
	END 1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
		GND2	PAIR		GND2		PAIR		GND2		PAIR		GND2		PAIR		GND2
END 2	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	
WITHIN THIS CABLE ASSEMBLY, POSITIONS LABELED WITH A SPECIFIC GND# ARE COMMON AND TIED TO TWINAX SHIELD																	
ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A COMMON GND REFERENCE TYING ALL GND#'s TOGETHER																	

TABLE 8: SIGNAL MAPPING (NVAC-DP-X-XX-3-XX.X-01-1-X)																	
WIRING OPTION	BANK 1 POSITIONS																
-1 (PIN 01 TO PIN 48)	END 1	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
		GND1	PAIR		GND1		PAIR		GND1		PAIR		GND1		PAIR		GND1
	END 2	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33
	BANK 2 POSITIONS																
	END 1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
		GND2	PAIR		GND2		PAIR		GND2		PAIR		GND2		PAIR		GND2
	END 2	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
	BANK 3 POSITIONS																
	END 1	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		GND3	PAIR		GND3		PAIR		GND3		PAIR		GND3		PAIR		GND3
	END 2	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01
	WITHIN THIS CABLE ASSEMBLY, POSITIONS LABELED WITH A SPECIFIC GND# ARE COMMON AND TIED TO TWINAX SHIELD																
ON THE MATING BOARD ASSEMBLY, SAMTEC RECOMMENDS IMPLEMENTING A COMMON GND REFERENCE TYING ALL GND#'s TOGETHER																	

PROPRIETARY NOTE
 THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.



520 PARK EAST BLVD, NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail info@SAMTEC.com code 55322

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION: NVAC ASSEMBLY

DWG. NO. NVAC-XX-X-XX-X-XX.X-XX-X-X

BY: B BLESSING 09/26/2017 SHEET 3 OF 3