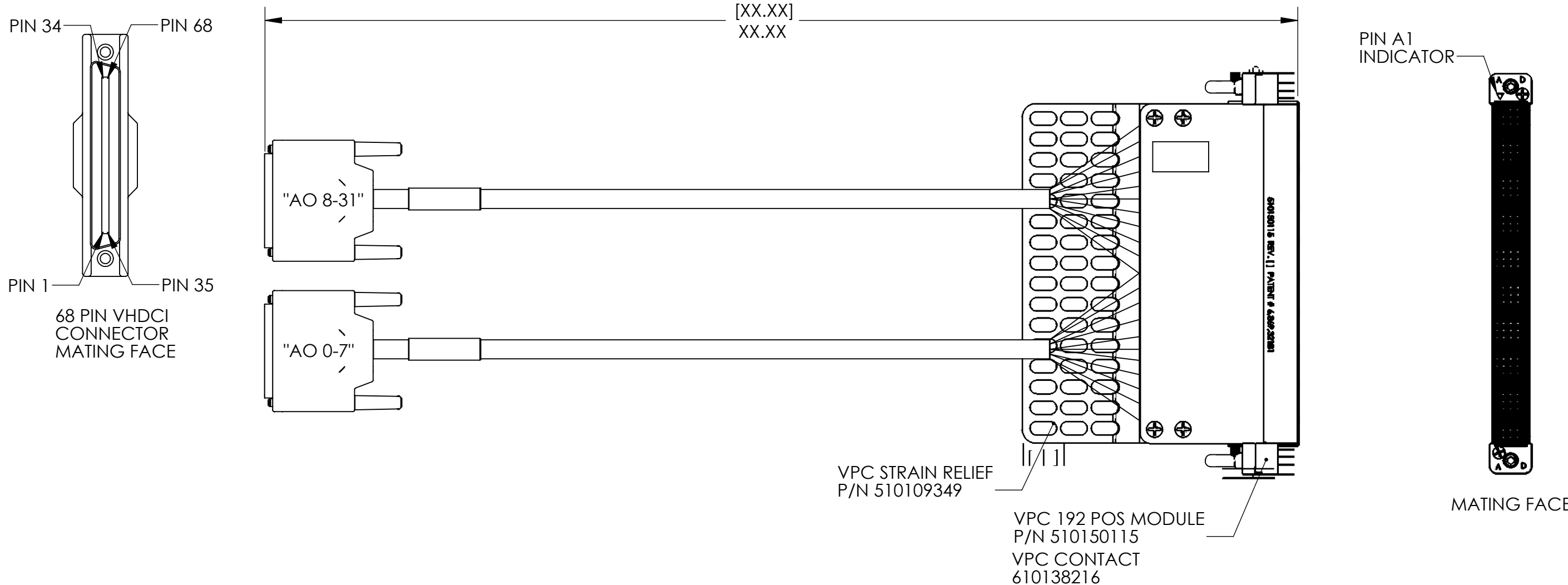


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REV	DESCRIPTION	DATE	ENGINEER
H	ECN # 11905	9/16/2021	C MCCURRY



INSTRUMENT TYPE: PXI
INSTRUMENT CARD: NATIONAL INST. PXI 6723
MATING MODULE: 510151105 (1)
MATING PATCHCORDS: 7-121924000-036 (112)

VPC P/N 540072020X40 WHERE X =	LENGTH XX.XX"
1	20.00" [508]
2	36.00" [914]
6	48.00" [1219]
9	60.00" [1524]
5	72.00" [1829]

RELATIVE CONNECTOR POSITIONS AND WIRE ROUTING ARE GENERIC AND MAY VARY WITH PINOUT

DIMENSIONS ARE SHOWN AS:  
[MILLIMETERS]  
INCHES

**CUSTOMER DRAWING**



CBA, RCV, QUADRAPADDLE TO 2 x 68 VHDCI f/ NI PXI-6723

DWG.NO. **540072020X40** REV H

SIZE B	SCALE NONE	CAGE CODE 18117	SHEET 1 OF 2
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NOTES:

VPC MODULE	NI PXI-6723 AO	COLOR CODE	PAIR	SIGNAL NAME
510150115	0-7			
PIN A15	PIN 34	LT TAN	34	AO GND
PIN B15	PIN 67	LT TAN/ GRN DASH	33	AO GND
PIN C15	PIN 66	LT TAN/ RED DASH	32	AO GND
PIN D15	PIN 32	LT TAN/RED LINE		AO GND
PIN A16	PIN 65	LT TAN/ BLU DASH	31	AO 7
PIN B16	PIN 31	LT TAN/ BLU LINE		AO GND
PIN C16	PIN 64	TAN/ BRN DASH	30	AO GND
PIN D16	PIN 30	TAN/ BRN LINE		AO 6
PIN A17	PIN 63	TAN/ GRN DASH	29	AO GND
PIN B17	PIN 29	TAN/ GRN LINE		AO GND
PIN C17	PIN 28	TAN/ RED LINE	28	AO 5
PIN A18	PIN 61	TAN/ BLU DASH	27	AO GND
PIN B18	PIN 27	TAN/ BLU LINE		AO GND
PIN C18	PIN 60	GRY/ BRN DASH	26	AO 4
PIN D18	PIN 26	GRY/ BRN LINE		AO GND
PIN A19	PIN 59	GRY/ GRN DASH	25	AO GND
PIN B19	PIN 25	GRY/ GRN LINE		AO 3
PIN C19	PIN 58	GRY/ RED DASH	24	AO GND
PIN D19	PIN 24	GRY/ RED LINE		AO GND
PIN A20	PIN 57	GRY/ BLU DASH	23	AO 2
PIN B20	PIN 23	GRY/ BLU LINE		AO 19
PIN C20	PIN 56	YEL	22	AO GND
PIN D20	PIN 22	GRN		AO
PIN A21	PIN 55	GRN/ BRN DASH	21	AO GND
PIN B21	PIN 21	GRN/ BRN LINE		AO 1
PIN C21	PIN 54	GRN/ RED DASH	20	AO GND
PIN D21	PIN 20	GRN/ RED LINE		AO EXT REF
PIN A22	PIN 53	GRN/ BLU DASH	19	D GND
PIN B22	PIN 19	GRN/ BLU LINE		P0.4
PIN C22	PIN 52	GRY	18	P0.0
PIN D22	PIN 18	VIO		D GND
PIN A23	PIN 51	VIO/ BRN DASH	17	P0.5
PIN B23	PIN 17	VIO/ BRN LINE		P0.1
PIN C23	PIN 50	VIO/ GRN DASH	16	D GND
PIN D23	PIN 16	VIO/ GRN LINE		P0.6
PIN A24	PIN 49	VIO/ RED DASH	15	P0.2
PIN B24	PIN 15	VIO/ RED LINE		D GND
PIN C24	PIN 48	VIO/ BLU DASH	14	P0.7
PIN D24	PIN 14	VIO/ BLU LINE		+5V
PIN A25	PIN 47	WHT	13	P0.3
PIN B25	PIN 13	PNK		D GND
PIN C25	PIN 12	PNK/BRN LINE	12	D GND
PIN A26	PIN 45	PNK/GRN DASH	11	EXT STROBE
PIN B26	PIN 11	PNK/ GRN LINE		PFI 0
PIN C26	PIN 44	PNK/ RED DASH	10	D GND
PIN D26	PIN 10	PNK/ RED LINE		PFI 1
PIN A27	PIN 43	PNK/ BLU DASH	9	PFI 2
PIN B27	PIN 9	PNK/ BLU LINE		D GND
PIN C27	PIN 42	YEL/ BRN	8	PFI 3/CTR 1 SOURCE
PIN D27	PIN 8	YEL/ BRN LINE		+5V
PIN A28	PIN 41	YEL/ GRN DASH	7	PFI 4/CTR 1 GATE
PIN B28	PIN 7	YEL/ GRN LINE		D GND
PIN C28	PIN 40	YEL/ RED DASH	6	CTR 1 OIUT
PIN D28	PIN 6	YEL/ RED LINE		PFI 5/AO SAMPLE CLK
PIN A29	PIN 39	YEL/ BLU DASH	5	D GND
PIN B29	PIN 5	YEL/ BLU LINE		PFI 6/AO START TRIG
PIN C29	PIN 38	WHT/ BRN	4	PFI 7
PIN D29	PIN 4	WHT/ BRN LINE		D GND
PIN A30	PIN 37	WHT/ GRN DASH	3	PFI 8/CTR 0 SOURCE
PIN B30	PIN 3	WHT/ GRN LINE		PFI 9/CTR 0 GATE
PIN C30	PIN 36	WHT/ RED DASH	2	D GND
PIN D30	PIN 2	WHT/ RED LINE		CTR 0 OUT
PIN A31	PIN 35	WHT/ BLU DASH	1	D GND
PIN B31	PIN 1	WHT/ BLU LINE		FREQ OUT

VPC MODULE	NI PXI-6723	COLOR CODE	PAIR	SIGNAL NAME
510150115	AO 8-31			
PIN A1	PIN68	TAN	34	AO 8
PIN B1	PIN 34	LT TAN		AO GND
PIN C1	PIN 67	LT TAN/ GRN DASH	33	AO GND
PIN D1	PIN 33	LT TAN/ GRN LINE		AO 9
PIN A2	PIN 66	LT TAN/ RED DASH	32	AO GND
PIN B2	PIN 32	LT TAN/ RED LINE		AO 10
PIN C2	PIN 65	LT TAN/ BLU DASH	31	AO 11
PIN D2	PIN 31	LT TAN/ BLU LINE		AO GND
PIN A3	PIN 64	TAN/ BRN DASH	30	AO GND
PIN B3	PIN 30	TAN/ BRN LINE		AO 12
PIN C3	PIN 63	TAN/ GRN DASH	29	AO GND
PIN D3	PIN 29	TAN/ GRN LINE		AO 13
PIN A4	PIN 62	TAN/ RED DASH	28	AO 14
PIN B4	PIN 28	TAN RED LINE		AO GND
PIN C4	PIN 61	TAN/ BLU DASH	27	AO GND
PIN D4	PIN 27	TAN/ BLU LINE		AO 15
PIN A5	PIN 60	GRY/ BRN DASH	26	AO GND
PIN B5	PIN 26	GRY/ BRN LINE		AO 16
PIN C5	PIN 59	GRY/ GRN DASH	25	AO 17
PIN D5	PIN 25	GRY/ GRN LINE		AO GND
PIN A6	PIN 58	GRY/ RED DASH	24	AO GND
PIN B6	PIN 24	GRY/ RED LINE		AO 18
PIN C6	PIN 57	GRY/ BLU DASH	23	AO GND
PIN D6	PIN 23	GRY/ BLU LINE		AO 19
PIN A7	PIN 55	GRN/ BRN DASH	21	AO 20
PIN B7	PIN 21	GRN/ BRN LINE		AO GND
PIN C7	PIN 54	GRN/ RED DASH	20	AO GND
PIN D7	PIN 20	GRN/ RED LINE		AO 21
PIN A8	PIN 53	GRN/ BLU DASH	19	AO GND
PIN B8	PIN 19	GRN/ BLU LINE		AO 22
PIN C8	PIN 52	GRY	18	AO 23
PIN D8	PIN 18	VIO		AO GND
PIN A9	PIN 51	VIO/ BRN DASH	17	AO GND
PIN B9	PIN 17	VIO/ BRN LINE		AO 24
PIN C9	PIN 50	VIO/ GRN DASH	16	AO GND
PIN D9	PIN 16	VIO/ GRN LINE		AO 25
PIN A10	PIN 49	VIO/ RED DASH	15	AO 26
PIN B10	PIN 15	VIO/ RED LINE		AO GND
PIN C10	PIN 48	VIO/ BLU DASH	14	AO GND
PIN D10	PIN 14	VIO/ BLU LINE		AO 27
PIN A11	PIN 47	WHT	13	AO GND
PIN B11	PIN 13	PNK		AO 28
PIN C11	PIN 46	PNK/ BRN DASH	12	AO 29
PIN D11	PIN 12	PNK/ BRN LINE		AO GND
PIN A12	PIN 45	PNK/ GRN DASH	11	AO GND
PIN B12	PIN 11	PNK/ GRN LINE		AO 30
PIN C12	PIN 44	PNK/ RED DASH	10	AO GND
PIN D12	PIN 10	PNK/ RED LINE		AO 31

UNUSED WIRES	
LEG	COLOR
AO 0-7	LT TAN/ GRN LINE
	PNK/ BRN DASH
	TAN/ RED DASH
	TAN
AO 8-31	WHT/ BLU LINE
	WHT/ RED LINE
	WHT/ GRN LINE
	WHT/ BRN LINE
	YEL/ BLU LINE
	YEL/ RED LINE
	YEL/ GRN LINE
	YEL/ BRN LINE
	PNK/ BLU LINE
	GRN
	WHT/ BLU DASH
	WHT/ RED DASH
	WHT/ GRN DASH
	WHT/ BRN DASH
	YEL/ BLU DASH
	YEL/ RED DASH
	YEL/ GRN DASH
	YEL/ BRN DASH
	PNK/ BLU DASH
	YEL

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DWG.NO.	<b>540072020X40</b>	REV	<b>H</b>
SIZE	SCALE	CAGE CODE	SHEET
B	NONE	18117	2 OF 2

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