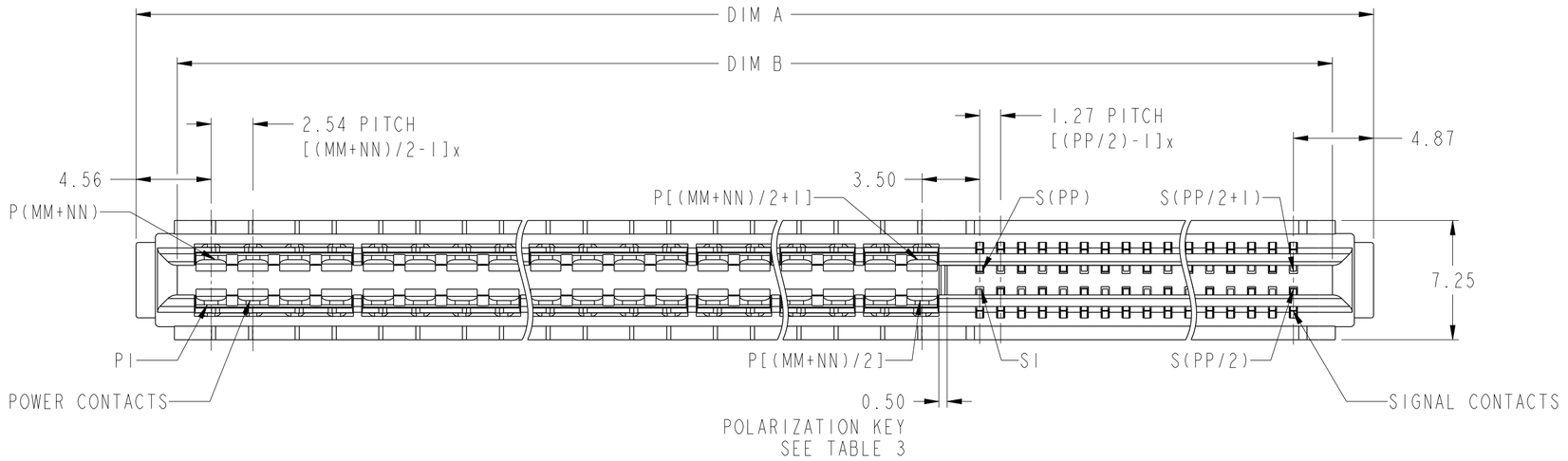
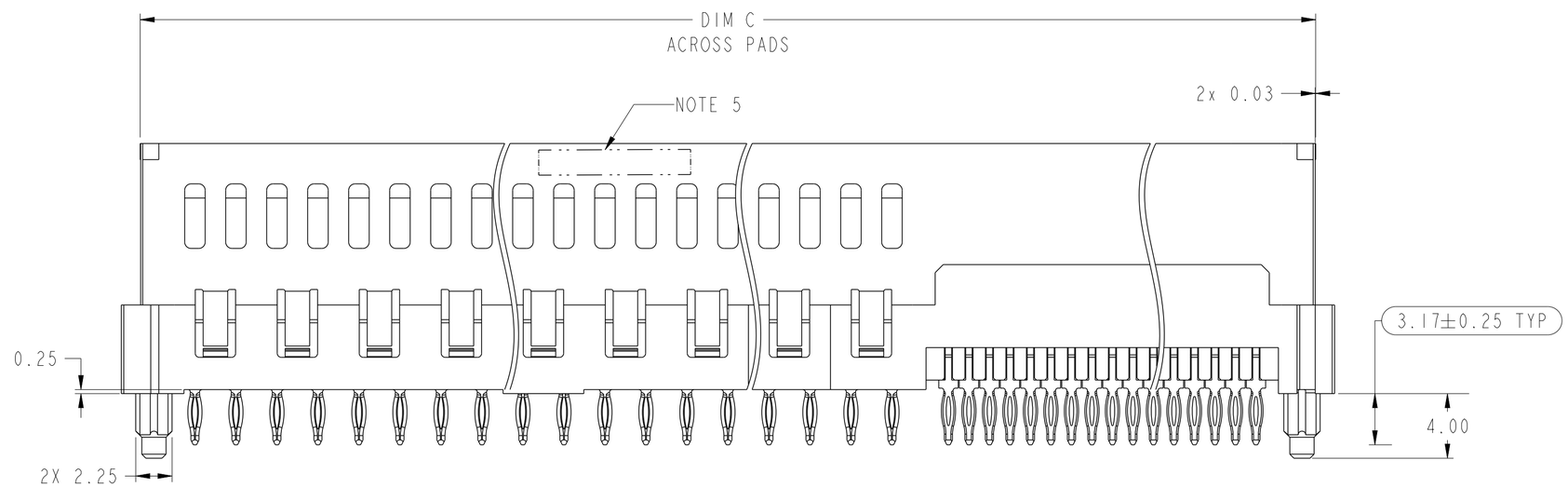
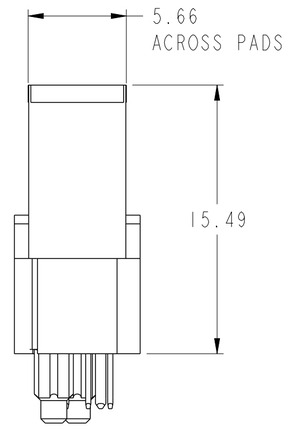






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spec ref	-			dr	Hai-Ling Liu	2014/06/30	Amphenol Power Solutions
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Laven Wang	2025/04/22	MM / scale 1:1 / size A2
ISO 406 ISO 1101				rvwr	-	-	ecn no ELX-DG-55243-1
				appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com / rel level Released
surface	linear	0.X	±0.50	projection	title	STD VERT REC UNIVERSAL	dwg no 10130787 / rev C
ISO 1302		0.XX	±0.25			HIGH POWER CARD EDGE	cat. no.
		0.XXX	±0.10			product family: Product - Customer Drw	sheet 1 of 4
	angular	0°	±2°				

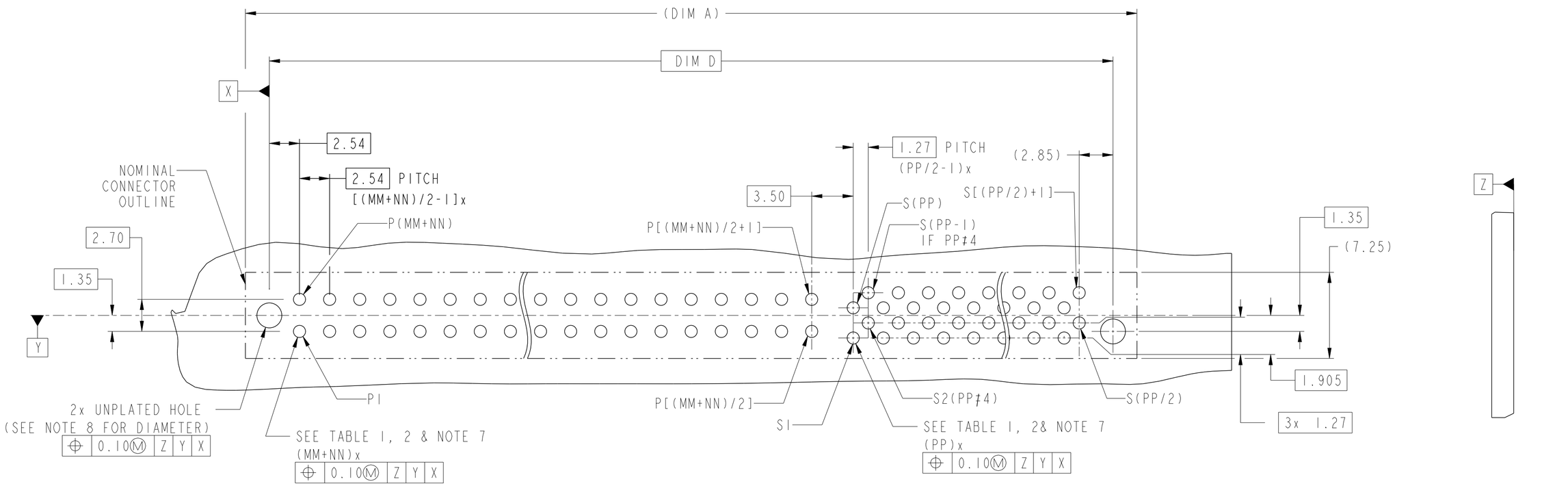
Creo File:APH-PWR-A2C,REV B,2021-05-07

PDS: Rev :C STATUS: Released Printed: May 16, 2025

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CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.94 - 1.10
	IMMERSION TIN	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.94 - 1.10
	COPPER	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.65 - 0.80
	IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.70 - 0.80
	COPPER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



RECOMMENDED HOST BOARD LAYOUT

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spec ref	-		dr	Hai-Ling Liu	2014/06/30
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Laven Wang	2025/04/22
			rvwr	-	-
			appr	Zheng, Pei-Min	2025/05/16
surface ISO 1302	linear	0.X ±0.50	projection	title	STD VERT REC UNIVERSAL HIGH POWER CARD EDGE
		0.XX ±0.25			
		0.XXX ±0.10			
	angular	0° ±2°			

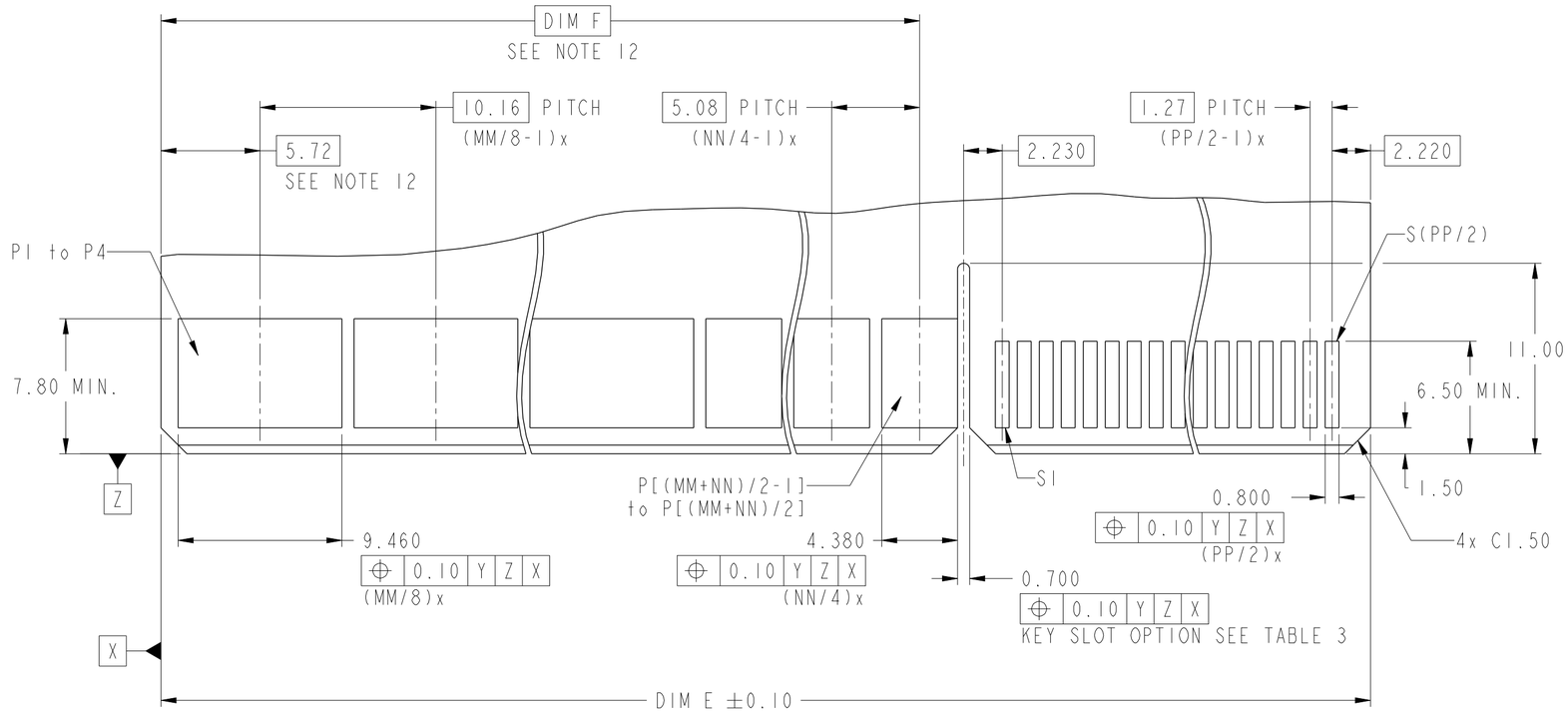
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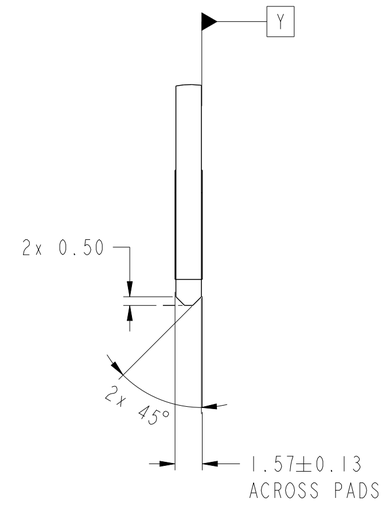
MM | scale 1:1 | size A2 | ecn no ELX-DG-55243-1 | rel level Released

dwg no 10130787 | rev C | cat. no. | product family Product - Customer Drw | sheet 2 of 4

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RECOMMENDED MATING BOARD

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spec ref	-		dr	Hai-Ling Liu	2014/06/30	Amphenol Power Solutions	MM / scale 1:1 / size A2
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Laven Wang	2025/04/22		ecn no ELX-DG-55243-1
			rvwr	-	-	A Division of Amphenol Corporation amphenol-icc.com	rel level Released
surface ISO 1302	linear	0.X ±0.50	appr	Zheng, Pei-Min	2025/05/16	projection	title: STD VERT REC UNIVERSAL HIGH POWER CARD EDGE
		0.XX ±0.25					dwg no 10130787 / rev C
		0.XXX ±0.10					cat. no.
	angular	0° ±2°				product family: Product - Customer Drw	sheet 3 of 4

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10130787 - MM NN PP _ LF

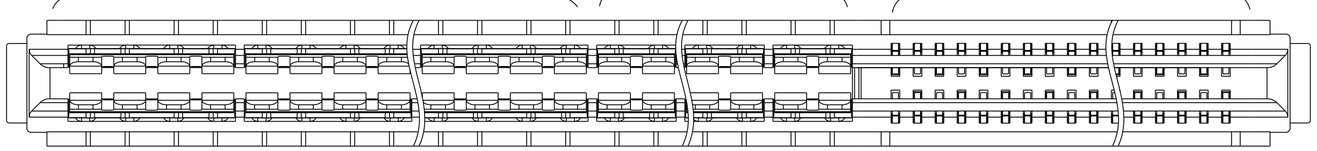
LEAD FREE

	A	B	C	D
Polarization Key Option	Y	Y	N	N
Tail Type Note 10	STB	PF	STB	PF

4 BEAM PWR CONTACT QTY (NEXT TO LEFT END)

2 BEAM PWR CONTACT QTY (NEXT TO SIGNAL)

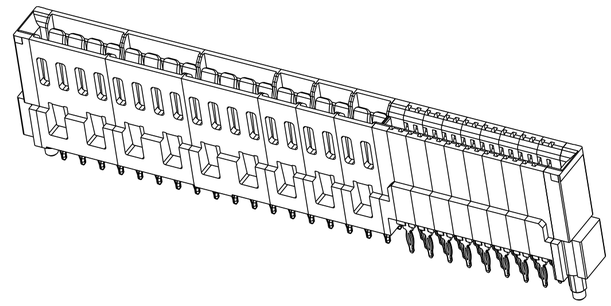
SIGNAL CONTACT QTY



Example: The configuration above is 10130787-241232BLF
STD VERT REC 36P32S with polarization key.
24P is 4 beam contact, 12P is 2 beam contact.

TABLE 3. PART NUMBER CODE. HPCE STD VERT REC P+S CONFIG

DIM	TABLE 2. LENGTH FORMULAS.
DIM A (11)	(MM/8)X10.16+ (NN/4)X5.08 + (PP/2)X1.27 + 9.12
DIM B	DIM "A" - 5.00
DIM C	DIM "A" - 2.34
DIM D	DIM "A" - 4.04
DIM E	DIM "A" - 5.30
DIM F (12)	(MM/8-1)X10.16 + (NN/4-1)X5.08 + 13.34 (WITH 4 BEAM CONTACT)
	(NN/4-1)X5.08 + 3.18 (WITHOUT 4 BEAM CONTACT) △C



EXAMPLE: 10130787-241232BLF

NOTES:

1. CONNECTOR MATERIALS:
   HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
   UL 94V-0 COMPLIANT
   CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
2. CONTACT FINISH REF. GS-12-604 SECTION 5.2.
3. PRODUCT SPECIFICATION: GS-12-604.
4. APPLICATION SPECIFICATION: GS-20-128.
5. PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.
6. PACKAGING MEETS FCI SPECIFICATION GS-14-937.
7. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
8. MOUNTING HOLES ARE UNPLATED
   Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS TYPE
   Ø 2.18 +/- 0.03 FOR SOLDER TAILS TYPE
9. PRESS FIT APPLICATION TOOL DRAWING : 10119453.
10. STB= SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS.
    PF = PRESS FIT, 1.57mm MINIMUM PCB THICKNESS.
11. MAXIMUM OVERALL LENGTH IS 100mm.
12. DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT OR 2 BEAM CONTACT.
13. A SYMBOL △C WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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		appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com / rel level Released
surface ISO 1302	linear 0.X ±0.50; 0.XX ±0.25; 0.XXX ±0.10 / angular 0° ±2°	projection	title: STD VERT REC UNIVERSAL HIGH POWER CARD EDGE		dwg no 10130787 / rev C
			product family: Product - Customer Drw		cat. no. / sheet 4 of 4

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