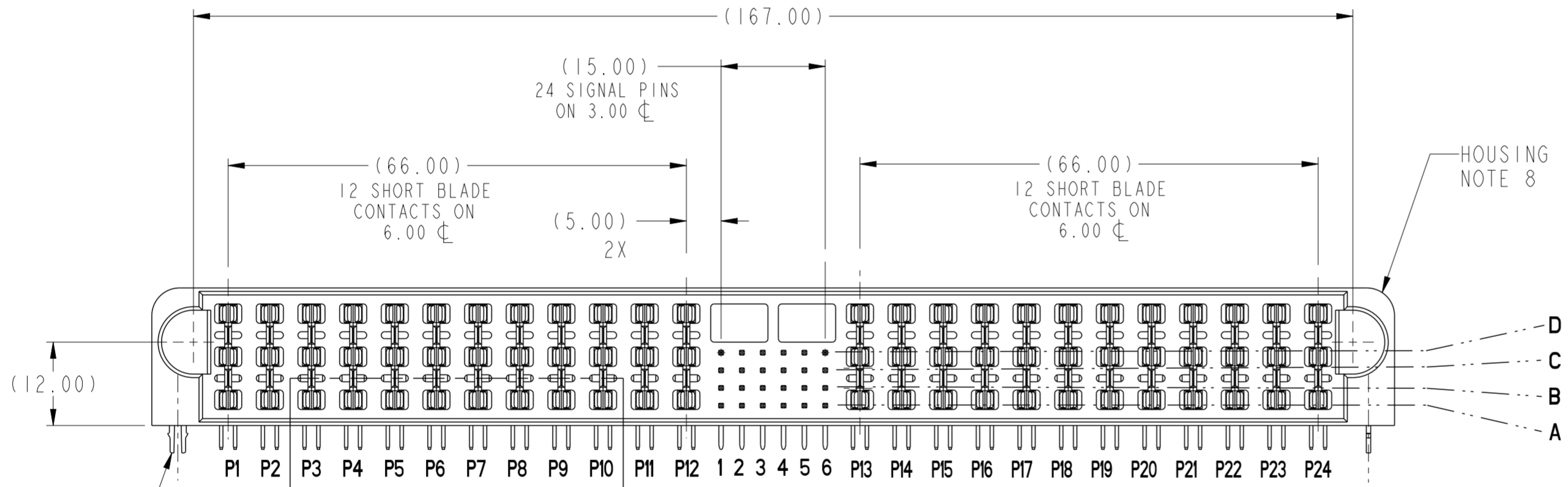
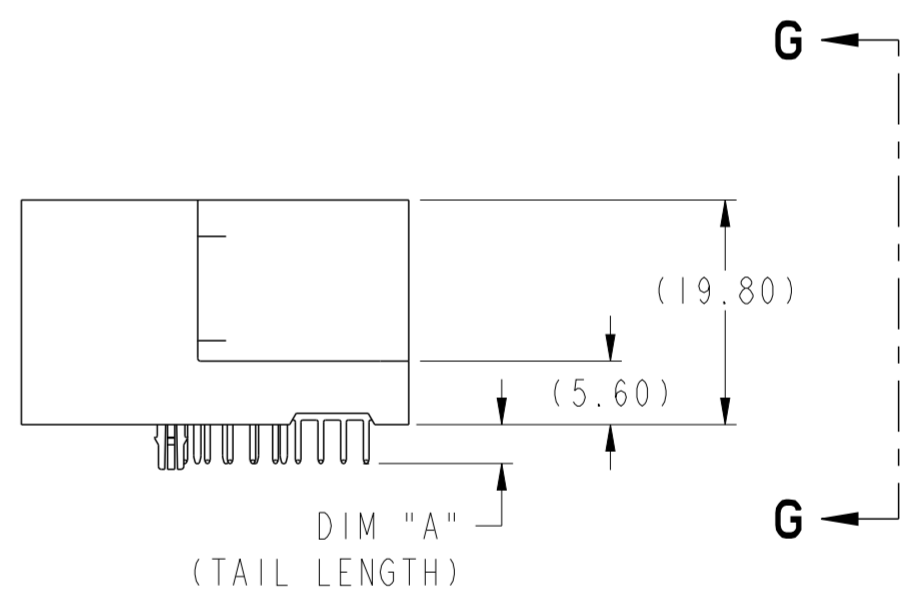


SECTION X-X



VIEW G-G



RETENTION CLIPS
OPTIONAL
(SEE P/N TABLE)

KEYED FOR SHORT CONTACTS
12X

KEYED FOR SHORT CONTACTS
12X

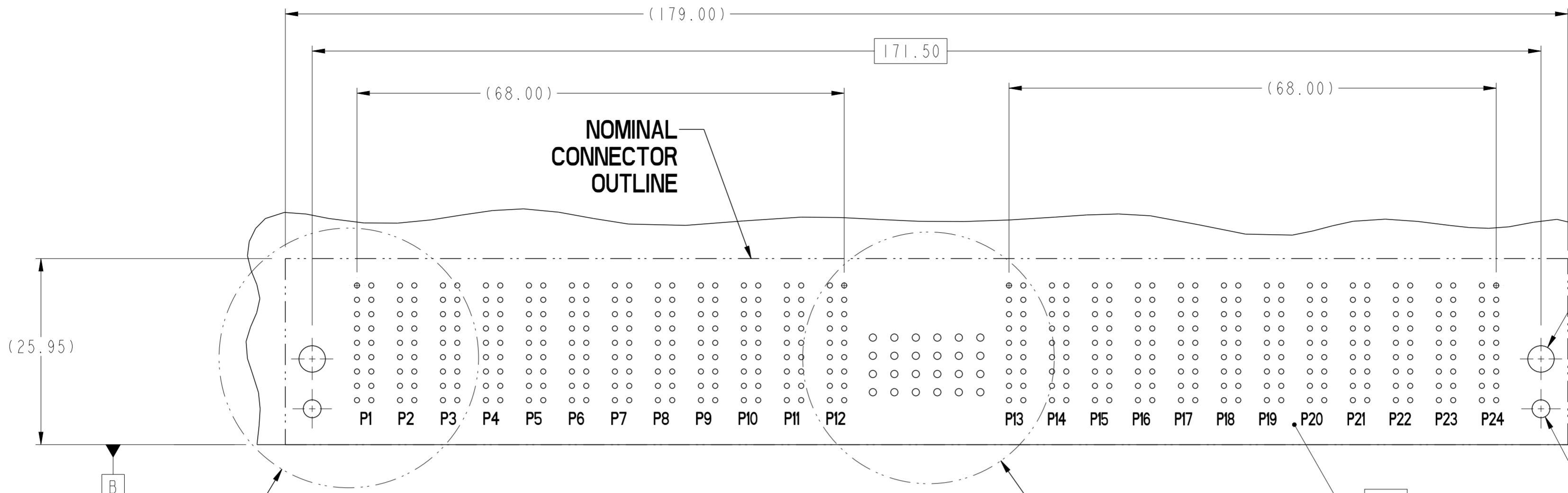
rev		ecn no	dr	date	spec ref	dr		2012/02/03	projection	MM	size	A2	scale	1:1
1		-	HZ	2012-02-02	tolerance std	eng		2012/05/30			ecn no	-	rel level	Released
-		-	-	-	ASME Y14.5	chr		-						
-		-	-	-	TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±.5 0.XX ±.25 0.XXX ±.100 angular 0° ±2°	appr		2012/05/31	product family	-	dwg no	10120062	rev	A
-		-	-	-		www.fci.com		cat. no.	-	Product - Customer Draw	sheet 1 of 4			
-		-	-	-		ASME Y14.5		angular 0° ±2°		-		-		-

PDS: Rev :A

STATUS:Released

Printed: Jun 01, 2012

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**RECOMMENDED PCB LAYOUT
COMPONENT SIDE**

NOTE 6

$(\varnothing 3.683 \pm 0.050 \text{ 2X})$
 $\oplus 0.10 \text{ (M) A B C}$
 REQUIRED FOR
 #4 MOUNTING SCREWS
 AND PEM NUT
 (SEE P/N TABLE)
 AND NOTE 11

$(\varnothing 2.49 \pm 0.08 \text{ 2X})$
 $\oplus 0.10 \text{ (M) A B C}$

REQUIRED ONLY FOR
 -003LF AND -004LF
 (SEE P/N TABLE)
 AND NOTE 11

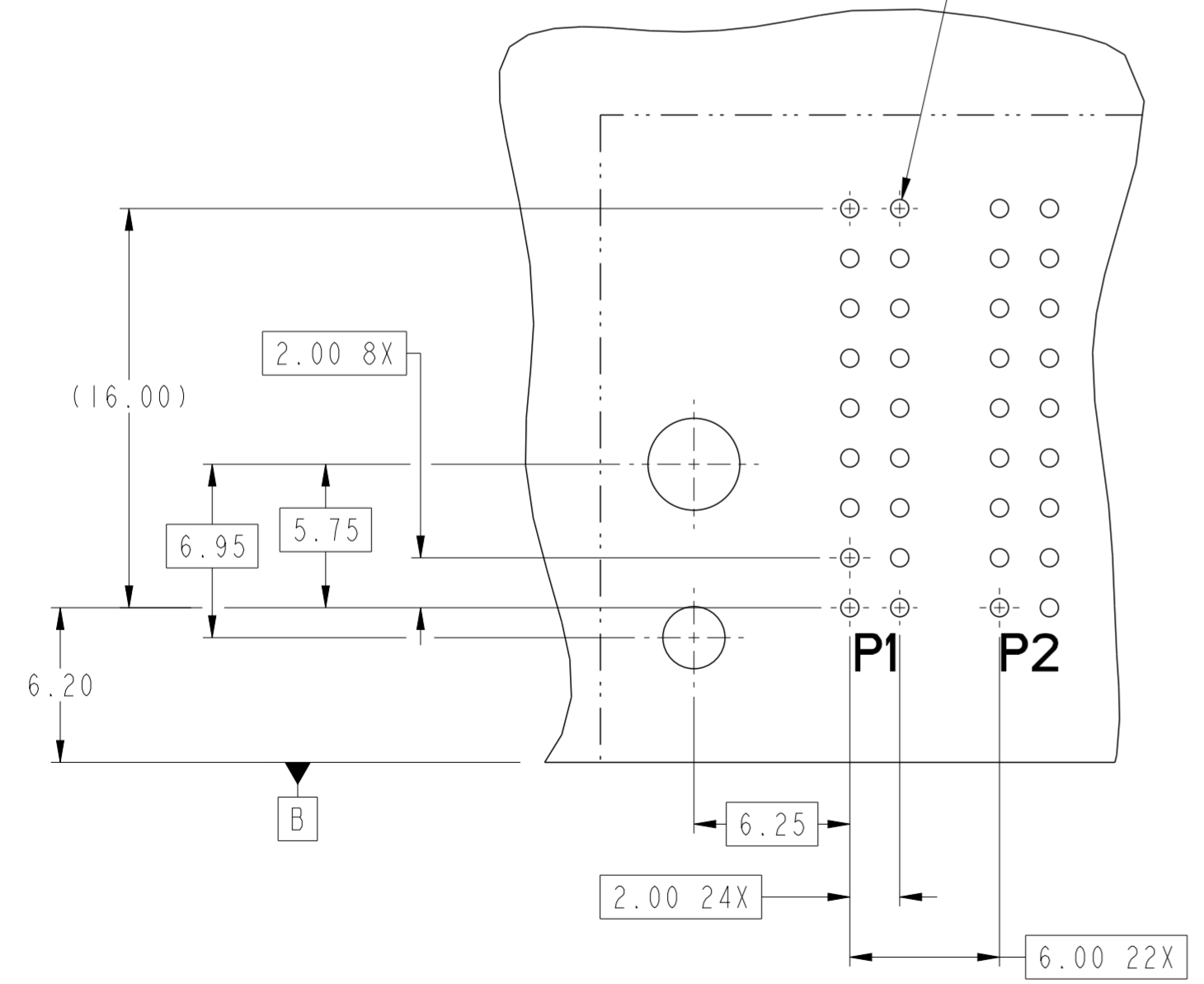
SEE DETAIL D

SEE DETAIL E

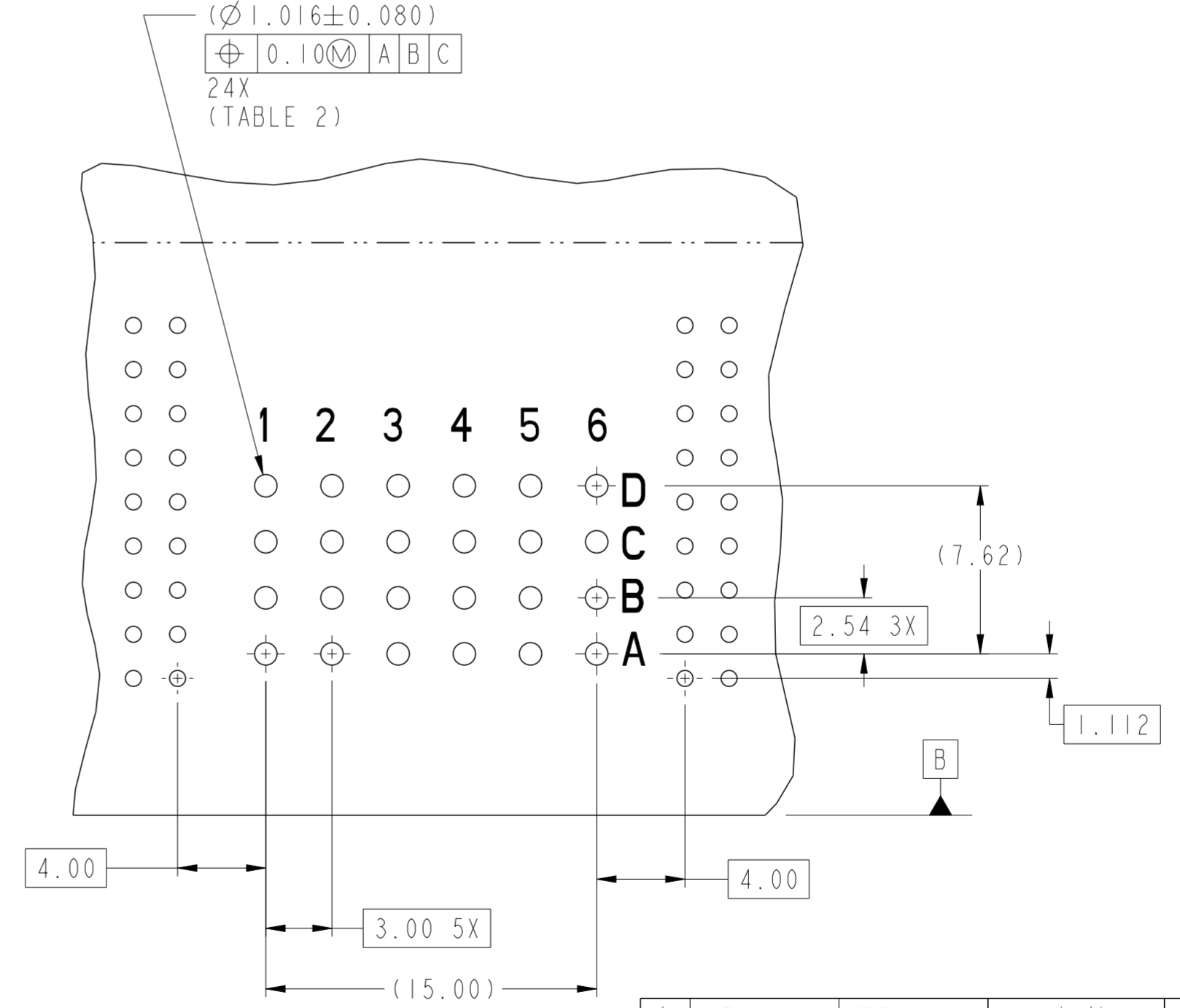
-A-
OPPOSITE SURFACE

$(\varnothing 0.80)$
 0.65
 $\oplus 0.10 \text{ (M) A B C}$
 432X
 (TABLE 1)

$(\varnothing 1.016 \pm 0.080)$
 $\oplus 0.10 \text{ (M) A B C}$
 24X
 (TABLE 2)



**DETAIL D
SCALE 4:1**



**DETAIL E
SCALE 4:1**

dr	Helen Zhang	2012/02/03	projection	MM	size	A2	scale	4:1
eng	Helen Zhang	2012/05/30			ecn no	-	rel level	Released
chr	-	-						
appr	Pei-Ming Zheng	2012/05/31	product family	-	cat. no.	-	Product - Customer Drw	sheet 2 of 4
			FCI		R/A HDR 12DC-24S-12DC HCI POWER CONNECTOR		dwg no 10120062	
www.fci.com			cat. no.		-		Product - Customer Drw	

A

A

TOP LAYER DESCRIPTION

TABLE 1 (HCI POWER)
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
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
IMMERSION SILVER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	0.15 - 0.65um	0.70 - 0.80
COPPER (SEE NOTE 9)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	--	0.70 - 0.80
GOLD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.69 - 0.80

B

B

C

C

TOP LAYER DESCRIPTION

TABLE 2 (HPC SIGNALS)
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 ($\varnothing .0453 \pm .0010$)	0.025-0.050	0.005-0.015	0.94 - 1.10 ($\varnothing .040 \pm .003$)

D

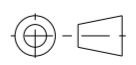
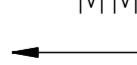

D

E

E

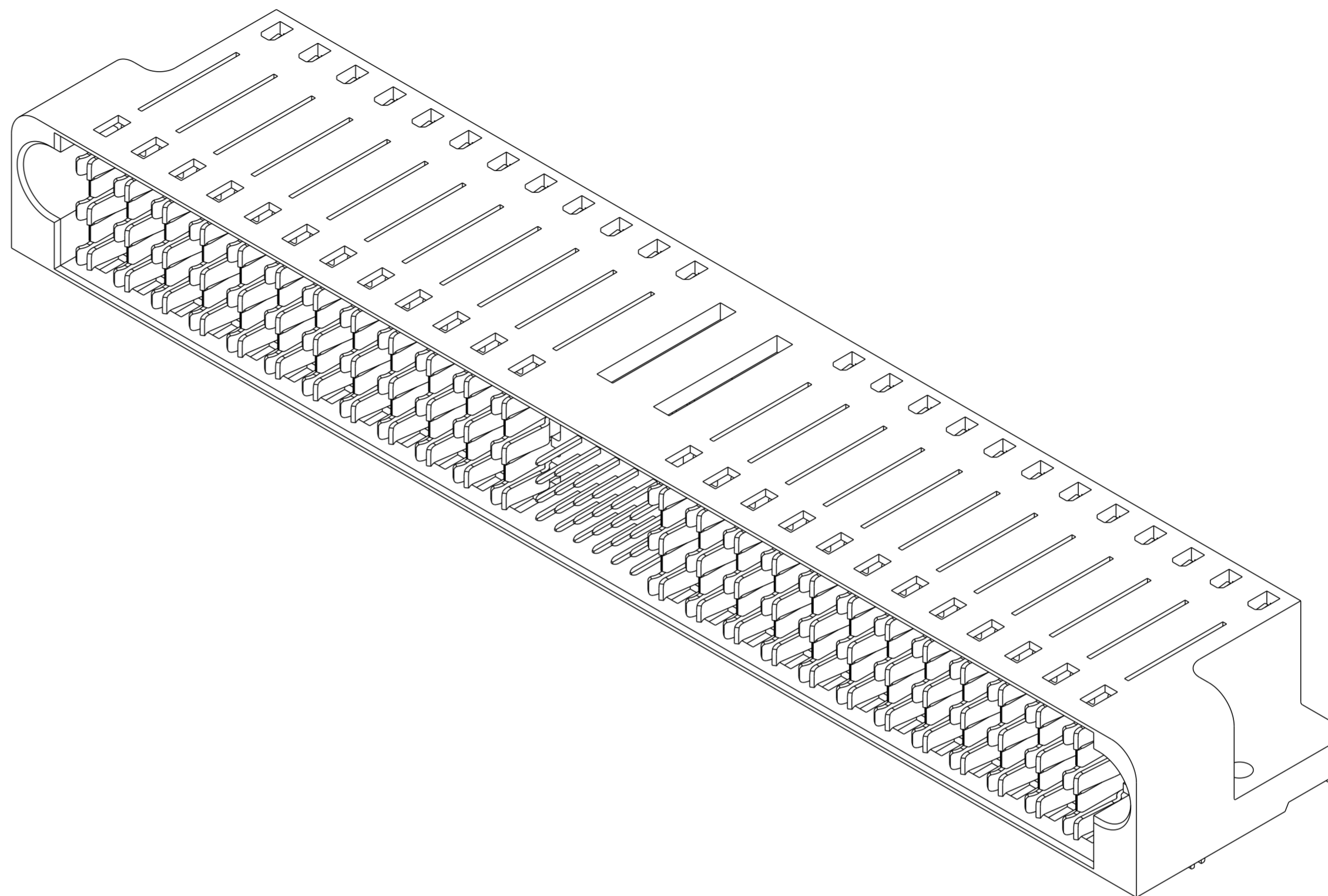
F

F

dr	Helen Zhang	2012/02/03	projection	MM	size	A2	scale	4:1
eng	Helen Zhang	2012/05/30			ecn no	-	rel level	
chr	-	-			Released			
appr	Pei-Ming Zheng	2012/05/31	product family	-	cat. no.	-	Product - Customer Drw	sheet 3 of 4
		title R/A HDR 12DC-24S-12DC HCI POWER CONNECTOR		dwg no 10120062	rev A			

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PART NUMBER	RETENTION CLIPS	#4 SCREW	DIM A (TAIL LENGTH)	TAIL TYPE
10120062-001LF	NO	YES	3.43	SOLDER TAIL
10120062-002LF	NO	YES	4.70	SOLDER TAIL
10120062-003LF	YES	NO	3.43	SOLDER TAIL
10120062-004LF	YES	NO	4.70	SOLDER TAIL



NOTES:

1. CONNECTOR MATERIALS:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK
UL 94V-0 COMPLIANT
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. CONTACT FINISH (ref GS-12-380 SECTION 5.2)
3. PRODUCT SPECIFICATION: GS-12-380.
4. APPLICATION SPECIFICATION: GS-20-070.
5. "FCI", P/N AND DATE CODE TO BE MARKED ON THIS SURFACE. THE P/N CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
6. MINIMUM NOMINAL PCB THICKNESS: 1.6mm
7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.
8. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
9. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
11. MOUNTING HOLES ARE UNPLATED.

dr	Helen Zhang	2012/02/03	projection	MM	size	A2	scale	1:1
eng	Helen Zhang	2012/05/30			ecn no	-	rel level	Released
chr	-	-						
appr	Pei-Ming Zheng	2012/05/31	product family	-	cat. no.	-	Product - Customer Drw	sheet 4 of 4
		title R/A HDR 12DC-24S-12DC HCI POWER CONNECTOR		dwg no 10120062		rev A		