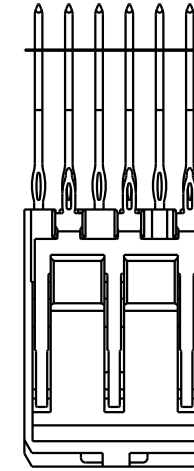


PRODUCT NUMBER	SHROUD TO USE FOR REAR-PLUG-UP APPLICATIONS	CONNECTOR SIZE	PIN FIELD DIM C	LENGTH DIM D
84881-X01ZZZ(L)LF	84818-X01LF	1 MOD	10.00	11.88
84881-X02ZZZ(L)LF	84818-X02LF	2 MOD	22.00	23.88
84881-X03ZZZ(L)LF	84818-X03LF	3 MOD	34.00	35.88
84881-X04ZZZ(L)LF	84818-X04LF	4 MOD	46.00	47.88

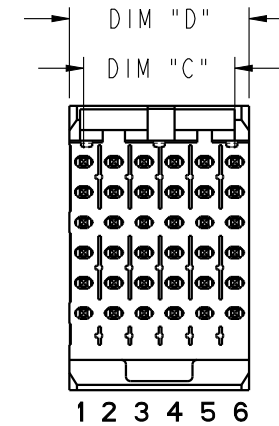
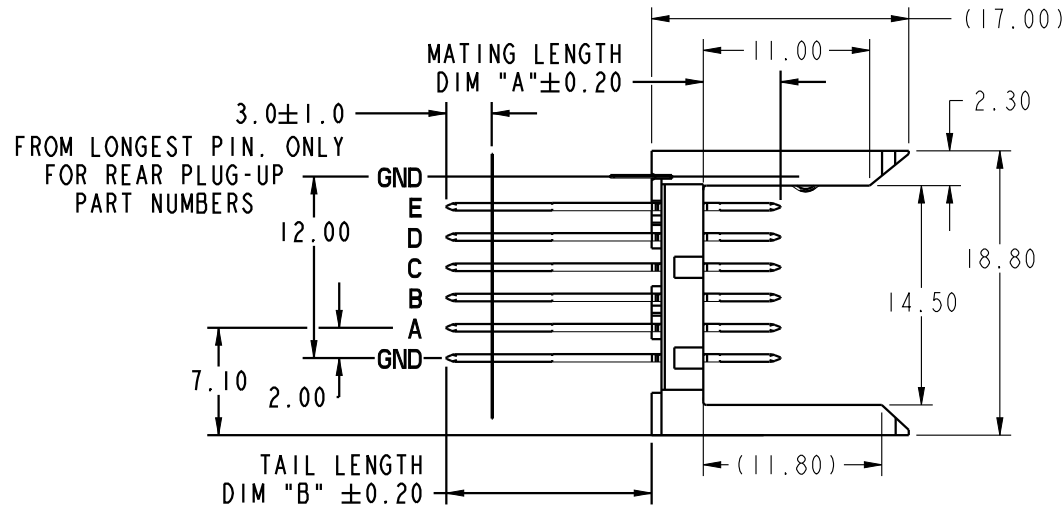
SHROUD PART NUMBER : 84818-XYLFF

△ X REFER PLATING PERFORMANCE SEE NOTE 6



PART NUMBER : 84881-XYZZZ(L)LF

LEAD FREE
 LUBRICATED (OPTIONAL) SEE NOTE 6 △
 SPECIAL LOAD PATTERN
 NUMBER MODULES
 PLATING PERFORMANCE △
 SEE NOTE 6



spec ref		dr P-Mathew Nebu 2011/05/20		projection		size A4		scale 2:1	
tolerance std		eng Rahul Mohan-M 2021/07/21						ecn no ELX-I-41715-1	
ISO 406 ISO 1101		chr -						rel level Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr Kuriakose, San 2021/08/16		product family METRAL 1000		rev		84881	
surface 3.2		linear		title VERTICAL SIGNAL HDR 5 ROW		dwg no		T	
ISO 1302		angular		cat. no. -		Product - Customer Drw		sheet 1 of 6	
		0.X ±0.3		amphenol-icc.com					
		0.XX ±0.13							
		0.XXX ±0.050							
		0° ±2°							

PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 84854 METRAL 1000 SERIES RECEPTACLE		WHEN MATING TO A 52062 METRAL 4000 SERIES RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
01*	5.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
22		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
30		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
05		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
35		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
48		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
40		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
65		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
09		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
02*	5.75	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
31		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
06		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
36		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
49		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
25		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
66		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
10		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
03*	6.50	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
45		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
07		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
37		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
50		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
41		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
24		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
11		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10

* STUB PINS - NO REAR PLUG-UP
 ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

spec ref		dr	P-Mathew Nebu	2011/05/20	projection 	MM 	size	A4	scale	2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/07/21			ecn no	ELX-I-41715-1		
		chr	-	-				rel level	Released	
surface 3.2 ISO 1302	linear	appr	Kuriakose, San	2021/08/16	product family		METRAL 1000			
		0.X	±0.3	Amphenol FCI	VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.		dwg no	84881		
		0.XX	±0.13							rev
0.XXX	±0.050									
angular	0°	±2°	amphenol-icc.com	cat. no.	-	Product - Customer Drw		sheet 2 of 6		

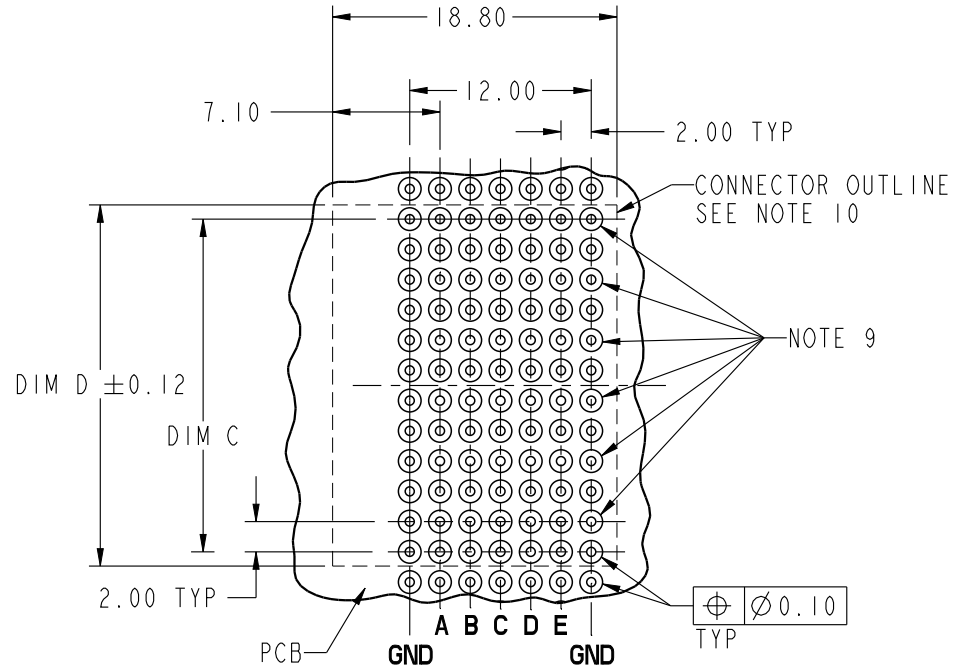
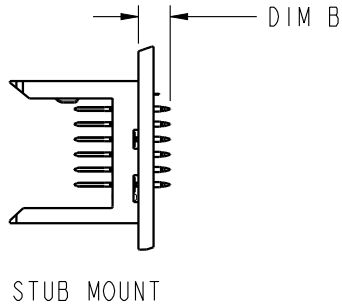
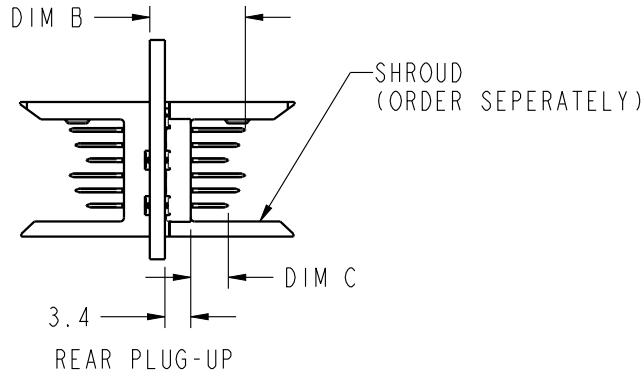
PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 84854 METRAL 1000 SERIES RECEPTACLE		WHEN MATING TO A 52062 METRAL 4000 SERIES RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
04*	7.25	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
46		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
33		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
08		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
38		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
51		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
42		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
67		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
12		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
19*	8.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
47		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
34		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
20		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
39		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
52		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
43		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
68		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
21		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10

* STUB PINS - NO REAR PLUG-UP
 ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

spec ref		dr	P-Mathew Nebu	2011/05/20	projection 	MM 	size	A4	scale	2:1
tolerance std		eng	Rahul Mohan-M	2021/07/21			ecn no	ELX-I-41715-1		
ISO 406 ISO 1101		chr	-	-			rel level	Released		
surface 3.2		appr	Kuriakose, San	2021/08/16	product family		METRAL 1000			
ISO 1302		TOLERANCES UNLESS OTHERWISE SPECIFIED		Amphenol FCI		VERTICAL SIGNAL HDR 5 ROW		84881		
linear		0.X ±0.3		P.F. SPECIAL LOAD EXT.		dwg no		rev		
		0.XX ±0.13		cat. no.		-		Product - Customer Drw		
angular		0° ±2°		amphenol-icc.com		-		sheet 3 of 6		

PRODUCT NUMBER

SEE SHEET 1



SEE PRINT 58351 FOR ADDITIONAL PCB INFORMATION.

spec ref		dr P-Mathew Nebu 2011/05/20		projection 	MM ←→	size A4	scale 2:1
tolerance std ISO 406 ISO 1101		eng Rahul Mohan-M 2021/07/21				ecn no ELX-I-41715-1	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr -				rel level Released	
surface		appr Kuriakose, San 2021/08/16		product family		rev	
ISO 1302 ✓	linear	0.X	±0.3	Amphenol FCI	title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.	dwg no 84881	T
		0.XX	±0.13				
		0.XXX	±0.050				
	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw	sheet 4 of 6

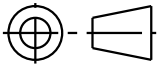

Creo F-114-ELX-NC-AAC, REV F, 2020-12-21

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84881-XY001LF	E	01
	D	
	C	
	B	
	A	
	GND	
84881-XY011LF	E	02
	D	
	C	
	B	
	A	
	GND	01
84881-XY021LF	E	03
	D	
	C	
	B	
	A	
	GND	01
84881-XY050LF *RPU **	E	19
	D	
	C	
	B	
	A	
	GND	02

PCB THICKNESS
RANGE FOR REAR
PLUG-UP
APPLICATIONS:
2.95 TO 3.80

* REAR PLUG-UP PART NUMBERS


** CANNOT BE MATED WITH
METRAL 4000 RECEPTACLE.

spec ref		dr	P-Mathew Nebu	2011/05/20	projection 	MM 	size	A4	scale	2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/07/21			ecn no	ELX-I-41715-1		
		chr	-	-			rel level	Released		
surface ISO 1302	linear	0.X		±0.3	product family	product no 84881	rev T			
		0.XX		±0.13						
		0.XXX		±0.050						
	angular	0°		±2°	amphenol-icc.com	cat. no.	Product - Customer Drw	sheet 5 of 6		

PRODUCT NUMBER

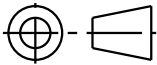
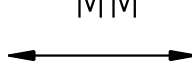
SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994
5. MATERIAL : BODY : THERMOPLASTIC UL94-V0.
: CONTACT : COPPER ALLOY.
6. FOR PLATING PERFORMANCE REFER DRAWING # 10159408.
7. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR MATING WITH METRAL 1000 RECEPTACLES
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
FOR MATING WITH METRAL 4000 RECEPTACLES
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D & E
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D & E
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.
9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.
11. THE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
12. ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
13. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE DRAWING CURRENT REVISION

Amphenol FCI

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spec ref		dr	P-Mathew Nebu	2011/05/20	projection 	MM 	size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/07/21			ecn no	ELX-I-41715-1		
		chr	-	-				rel level	Released	
surface ISO 1302	linear	appr	Kuriakose, San	2021/08/16	product family		rev			
		0.X	±0.3	Amphenol FCI	title		84881		T	
		0.XX	±0.13							
0.XXX	±0.050									
angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw		sheet 6 of 6			

Creo F110:ELX-FCI:ACC,REV F, 2020-12-21