

A

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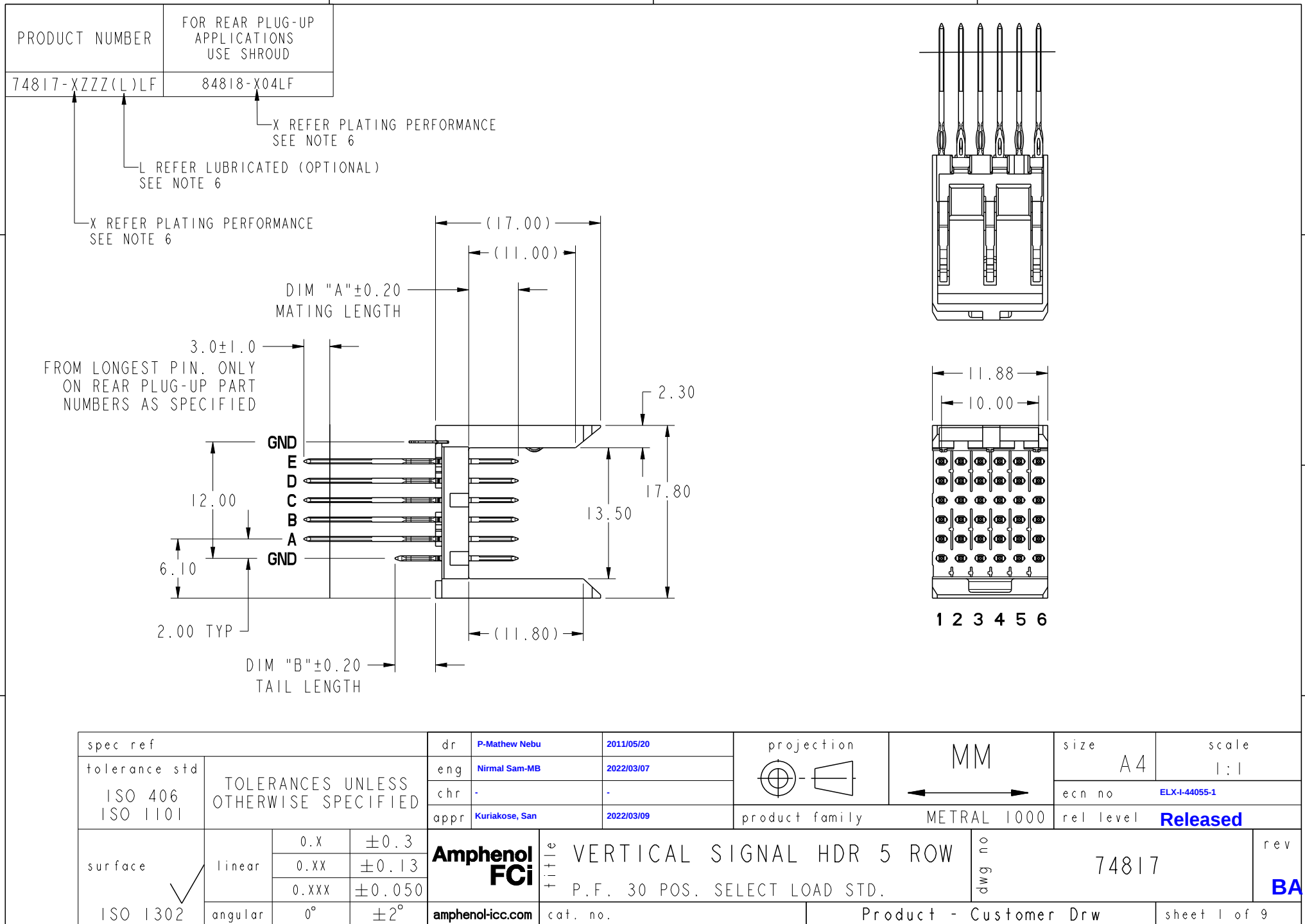
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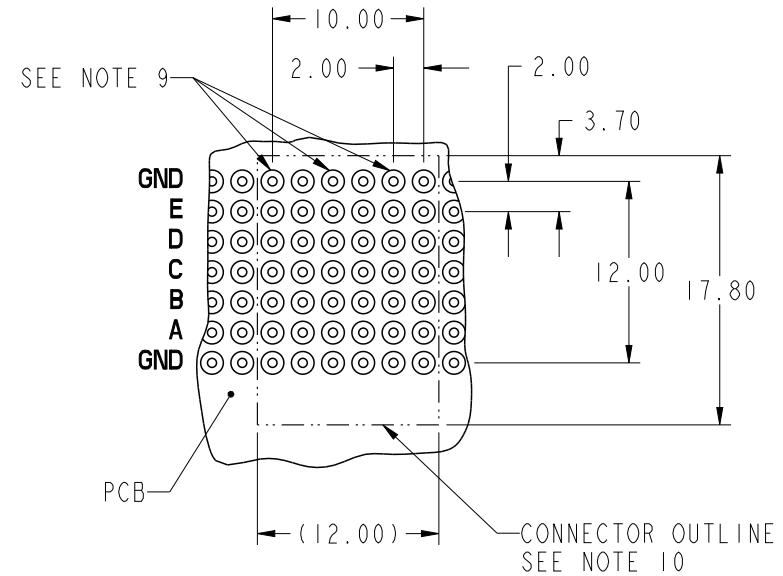
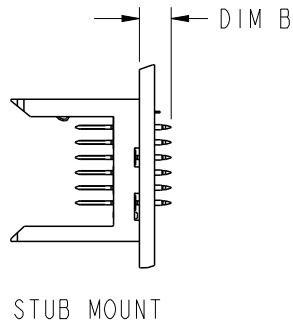
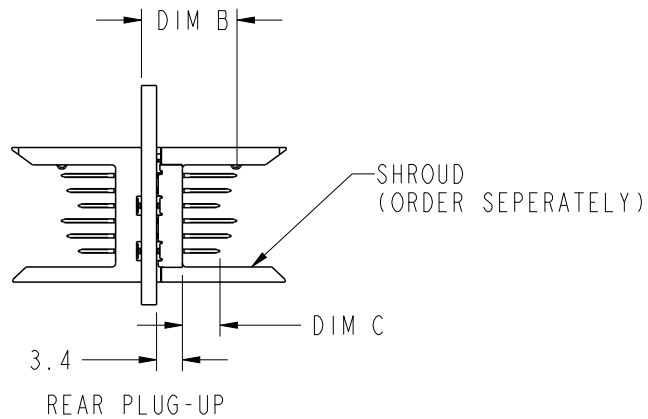
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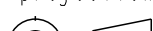
B

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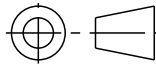
PRODUCT NUMBER
SEE SHEET 1RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)
FOR PTH REFER DRAWING 58351

spec ref				dr	P-Mathew Nebu	2011/05/20			size	A4	scale	1:1					
tolerance std				eng	Nirmal Sam-MB	2022/03/07			ecn no				ELX-I-44055-1				
ISO 406 ISO 1101				chr	-	-			rel level				Released				
TOLERANCES UNLESS OTHERWISE SPECIFIED				appr	Kuriakose, San	2022/03/09			product family				METRAL 1000				
surface  ISO 1302	linear	0.X	±0.3		title				VERTICAL SIGNAL HDR 5 ROW				dwg no	74817		rev	BA
		0.XX	±0.13														
		0.XXX	±0.050														
	angular	0°	±2°	amphenol-icc.com	cat. no.				Product - Customer Drw				sheet 2 of 9				

Creo File: ELX-MC-AAC, REV F, 2020-12-21

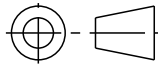
PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES METRAL 1000 RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
01*	5.00	4.30	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	1:1	
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng			Nirmal Sam-MB	2022/03/07	ecn no ELX-I-44055-1		
					chr			-	-			
		appr	Kuriakose, San	2022/03/09	product family			rel level Released				
surface  ISO 1302	linear	0.X	±0.3	Amphenol FCi	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.			dwg no 74817			rev BA	
		0.XX	±0.13									
		0.XXX	±0.050		cat. no.			Product - Customer Drw				sheet 3 of 9
		angular	0°	±2°	amphenol-icc.com							

PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 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	1:1	
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Nirmal Sam-MB	2022/03/07			ecn no	ELX-I-44055-1			
			chr	-	-			rel level	Released			
		appr	Kuriakose, San	2022/03/09	product family							
surface ISO 1302	linear	0.X	±0.3	Amphenol FCi	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.			dwg no	74817		rev BA	
		0.XX	±0.13									
		0.XXX	±0.050									
	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw		sheet 4 of 9			

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X001LF **	E	04	03	03	01	01	01
	D	04	03	03	01	01	01
	C	04	03	03	01	01	01
	B	04	03	03	01	01	01
	A	04	03	03	01	01	01
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X002LF **	E	01	01	01	01	03	04
	D	01	01	01	01	03	04
	C	01	01	01	01	03	04
	B	01	01	01	01	03	04
	A	01	01	01	01	03	04
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X003LF **	E	02	03	02	02	04	19
	D	02	03	02	02	04	19
	C	02	03	02	02	04	19
	B	02	03	02	02	04	19
	A	02	03	02	02	04	19
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X004LF **	E	03	02	02	04	19	02
	D	03	02	02	04	19	02
	C	03	02	02	04	19	02
	B	03	02	02	04	19	02
	A	03	02	02	04	19	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X005LF *RPU	E	06	06	06	06	06	06
	D	06	06	06	06	06	06
	C	30	06	06	06	06	06
	B	06	06	06	06	06	06
	A	06	06	06	06	06	06
	GND	30	30	30	30	30	30

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
3.25 - 4.55

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X006LF **	E	19	03	03	03	02	01
	D	19	03	03	03	02	01
	C	19	03	03	03	02	01
	B	19	03	03	03	02	01
	A	19	03	03	03	02	01
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X007LF *RPU **	E	20	07	07	07	06	05
	D	20	07	07	07	06	05
	C	20	07	07	07	06	05
	B	20	07	07	07	06	05
	A	20	07	07	07	06	05
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X008LF **	E	19	03	03	03	03	03
	D	19	03	03	03	03	03
	C	19	03	03	03	03	03
	B	19	03	03	03	03	03
	A	19	03	03	03	03	03
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X009LF *RPU **	E	20	07	07	07	07	07
	D	20	07	07	07	07	07
	C	20	07	07	07	07	07
	B	20	07	07	07	07	07
	A	20	07	07	07	07	07
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X010LF	E	03	03	03	03	03	03
	D	02	03	03	03	03	03
	C	03	03	03	03	03	03
	B	03	03	03	03	03	03
	A	03	03	03	03	03	03
	GND	01	01	01	01	01	01

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.30 (2.95) - 5.30
(NOT A STANDARD
METRAL 1000 APPL.).
CANNOT BE MATED
TO A METRAL 4000
RECEPTACLE

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.30 (2.95) - 5.30
(NOT A STANDARD
METRAL 1000 REAR
PLUG UP APPL.).
CANNOT BE MATED
TO A METRAL 4000.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X011LF *RPU	E	05	05	05	05	05	05
	D	05	05	05	05	05	05
	C	05	05	05	05	05	05
	B	05	05	05	05	05	05
	A	05	05	05	05	05	05
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X012LF *RPU	E	02	02	06	06	06	06
	D	02	02	06	06	06	06
	C	02	02	06	06	06	06
	B	02	02	06	06	06	06
	A	02	02	06	06	06	06
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X013LF *RPU	E	06	06	06	06	02	02
	D	06	06	06	06	02	02
	C	06	06	06	06	02	02
	B	06	06	06	06	02	02
	A	06	06	06	06	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X014LF *RPU	E	OBSOLETE					
	D						
	C						
	B						
	A						
	GND						

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X015LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	04	04	04	04	04
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	02	02	02	02	02	02

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL. :
2.30 (2.95) - 5.30
FOR METAL 1000
RECEPTACLE (NOT
A STANDARD METRAL
1000 APPL.) AND
2.30 (3.30) - 5.30 FOR
METRAL 4000 APPL.

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL. :
2.30 (2.95) - 5.30
FOR METAL 1000
RECEPTACLE (NOT
A STANDARD METRAL
1000 APPL.) AND
2.30 (3.30) - 5.30 FOR
METRAL 4000 APPL.

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL. :
2.30 (2.95) - 5.30
FOR METAL 1000
RECEPTACLE (NOT
A STANDARD METRAL
1000 APPL.) AND
2.30 (3.30) - 5.30 FOR
METRAL 4000 APPL.

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL. :
5.70 - 8.70 FOR METAL
1000 APPL. (NOT A
STANDARD METRAL
1000 APPL.) AND
6.70 - 8.70 FOR A
METRAL 4000
APPLICATION.



- * REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
- ** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE
- *** REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

spec ref		dr		P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Nirmal Sam-MB			2022/03/07	ecn no	ELX-I-44055-1					
				chr	-			-							
				appr	Kuriakose, San			2022/03/09		product family		rel level	Released		
surface	linear	0.X	±0.3	Amphenol FCI	title			VERTICAL SIGNAL HDR 5 ROW			dwg no	74817		rev	BA
		0.XX	±0.13												
		0.XXX	±0.050												
	ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw			sheet 5 of 9				

A

B

C

D

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X034LF *RPU **	E	05	20	05	05	05	05
	D	05	20	05	05	05	05
	C	05	20	05	05	05	05
	B	05	20	05	05	05	05
	A	05	20	05	05	05	05
	GND	01	01	01	01	01	01

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL.:
2.30 (2.95) - 5.30
(NOT A STANDARD
METRAL 1000
APPLICATION).
CANNOT BE MATED
TO A METRAL 4000
RECEPTACLE.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X035LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	03	03	03	03	03	03
	B	01	02	02	02	02	02
	A	01	02	02	02	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X036LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	01	01	01	01	03	02
	B	01	01	02	02	02	02
	A	02	02	02	02	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X037LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	01	02	02	02	02	02
	B	01	01	01	01	01	01
	A	02	02	02	02	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X038LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	02	02	02	02	02	02
	B	02	02	02	02	02	02
	A	02	02	02	03	02	02
	GND	-	-	-	-	-	-

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X039LF **	E	01	01	01	01	01	01
	D	01	01	01	01	01	01
	C	01	01	01	01	01	01
	B	01	01	01	01	01	01
	A	01	04	01	01	01	01
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X040LF *RPU **	E	08	06	06	06	06	06
	D	08	06	06	06	06	06
	C	06	06	06	06	06	06
	B	08	06	06	06	06	06
	A	08	06	06	06	06	06
	GND	06	06	06	06	06	06

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X041LF **	E	02	02	02	02	04	02
	D	02	02	02	02	02	02
	C	02	02	02	02	02	04
	B	02	02	02	02	02	02
	A	02	02	02	02	02	04
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X042LF *RPU **	E	08	06	06	06	06	06
	D	08	06	06	06	06	06
	C	08	06	06	06	06	06
	B	08	06	06	06	06	06
	A	08	06	06	06	06	06
	GND	30	30	30	30	30	30

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X043LF **	E	03	03	03	03	03	03
	D	03	03	03	03	01	03
	C	03	03	03	03	03	03
	B	03	03	03	03	03	03
	A	19	19	19	19	19	19
	GND	01	01	01	01	01	01

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
4.00 - 5.30.
CANNOT BE MATED
TO A METRAL 4000
RECEPTACLE.

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
3.25 - 4.95 FOR
METRAL 1000
APPLICATIONS.
CANNOT BE MATED
TO A METRAL 4000
RECEPTACLE.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X044LF *RPU **	E	45	45	45	45	45	45
	D	45	45	45	45	22	45
	C	45	45	45	45	45	45
	B	45	45	45	45	45	45
	A	47	47	47	47	47	47
	GND	22	22	22	22	22	22

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL.:
2.95 - 3.80 FOR
MATING TO
METRAL 1000
RECEPTACLE.
CANNOT BE MATED
TO METRAL 4000
RECEPTACLES.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X045LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	02	02	02	02	02	2
	B	02	02	02	02	02	02
	A	02	01	02	02	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X046LF *RPU	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
	GND	01	22	22	22	22	01

PCB THICKNESS
RANGE FOR REAR
PLUG UP APPL.:
2.95 - 3.80 FOR
BOTH METRAL
1000 AND 4000
RECEPTACLE
MATING (NOT A
STANDARD METRAL
1000 APPLICATION)

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X047LF	E	02	01	02	02	02	02
	D	02	02	02	02	02	02
	C	02	02	02	02	02	02
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X048LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	02	02	02	02	02	04
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	02	02	02	02	02	02

* REAR PLUG-UP PART NUMBER WITH
PIN ALIGNER
** CANNOT BE MATED TO A METRAL 4000
RECEPTACLE
*** REAR PLUG-UP PART NUMBER WITHOUT
PIN ALIGNER

spec ref		dr		P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1	
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Nirmal Sam-MB			2022/03/07	ecn no			ELX-I-44055-1
				chr	-			-	rel level			Released
				appr	Kuriakose, San			2022/03/09	product family			
surface ISO 1302 ✓	linear	0.X	±0.3	Amphenol FCI	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.			dwg no	74817		rev	BA
		0.XX	±0.13									
		0.XXX	±0.050									
	angular	0°	±2°	amphenol-icc.com	cat. no.			Product - Customer Drw			sheet 7 of 9	

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METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X049LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	02	02	02	02	02
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X050LF **	E	02	02	02	02	02	04
	D	02	02	02	02	02	04
	C	02	02	02	02	02	04
	B	02	02	02	02	02	04
	A	02	01	02	02	02	04
	GND	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X051LF **	E	04	02	02	02	02	02
	D	04	02	02	02	02	02
	C	04	02	02	02	02	02
	B	04	02	02	02	02	02
	A	04	01	02	02	02	02
	GND	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X052LF ***RPU	E	05	05	05	05	05	05
	D	05	05	05	05	05	05
	C	05	05	05	05	05	05
	B	05	05	05	05	05	05
	A	05	05	05	05	05	05
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X053LF ***RPU	E	05	20	05	05	05	05
	D	05	20	05	05	05	05
	C	05	20	05	05	05	05
	B	05	20	05	05	05	05
	A	05	20	05	05	05	05
	GND	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X054LF ***RPU	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
	GND	01	22	22	22	22	01

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X055LF **	E	04	02	02	02	02	02
	D	04	02	02	02	02	02
	C	04	02	02	02	02	02
	B	04	02	02	02	02	02
	A	04	02	02	02	02	02
	GND	-	02	02	02	02	-

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X056LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	02	02	02	02	02
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	-	02	02	02	02	-

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X057LF *RPU	E	22	22	22	01	01	01
	D	22	22	22	01	01	01
	C	22	22	22	01	01	01
	B	22	22	22	01	01	01
	A	22	22	22	01	01	01
	GND	22	22	22	22	22	22

* REAR PLUG-UP PART NUMBER WITH
PIN ALIGNER
** CANNOT BE MATED TO A METRAL 4000
RECEPTACLE
*** REAR PLUG-UP PART NUMBER WITHOUT
PIN ALIGNER

spec ref				dr	P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1
tolerance std				eng	Nirmal Sam-MB	2022/03/07			ecn no	ELX-I-44055-1		
ISO 406 ISO 1101				chr	-	-			rel level	Released		
				appr	Kuriakose, San	2022/03/09			product family			
surface	linear	0.X	±0.3	Amphenol FCi	title	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.	dwg no	74817	rev	BA		
		0.XX	±0.13									
		0.XXX	±0.050									
ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw				sheet 8 of 9		

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 Y14.5, 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 COMPLAINT 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 CURRENT DRAWING REVISION.

spec ref				dr	P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Nirmal Sam-MB	2022/03/07			ecn no	ELX-I-44055-1				
				chr	-	-			rel level			Released		
				appr	Kuriakose, San	2022/03/09			product family					
surface	linear	0.X	±0.3	Amphenol FCI	title	VERTICAL SIGNAL HDR 5 ROW				dwg no	74817		rev	BA
		0.XX	±0.13											
		0.XXX	±0.050											
	ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw				sheet 9 of 9			

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