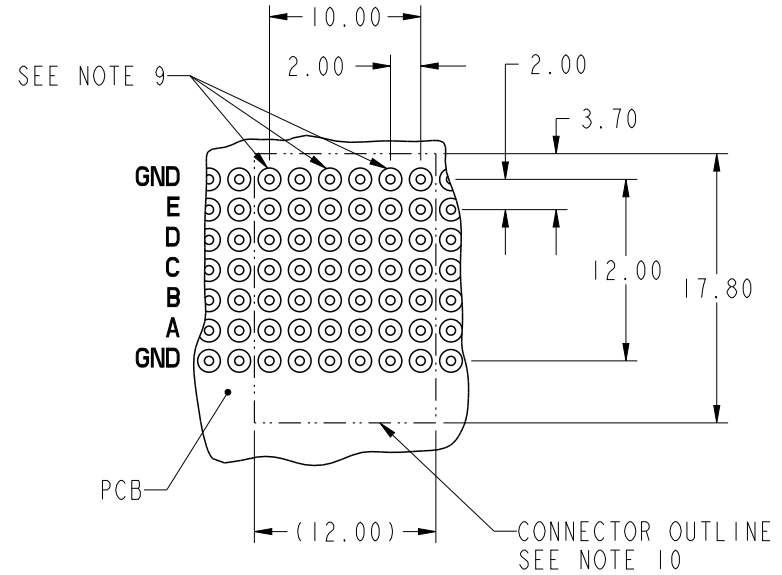
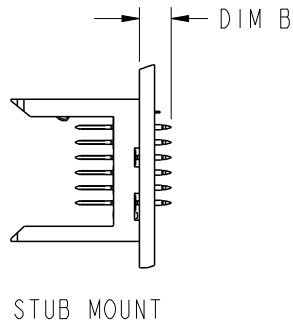
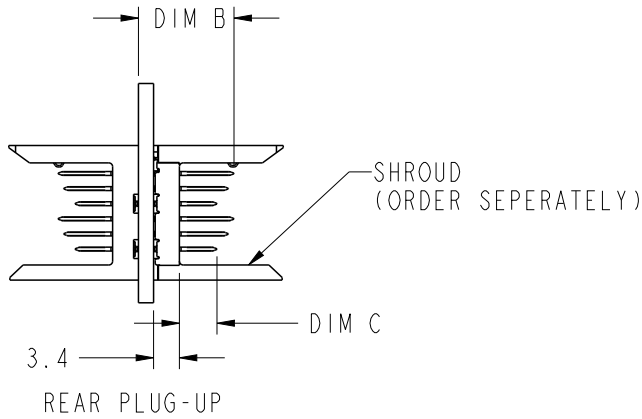


spec ref		dr P-Mathew Nebu 2011/05/20		projection 	MM 	size A4	scale 1:1
tolerance std ISO 406 ISO 1101		eng Nirmal Sam-MB 2022/03/07				ecn no ELX-I-44055-1	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr -				rel level Released	
surface ISO 1302		linear	0.X ±0.3 0.XX ±0.13 0.XXX ±0.050	product family METRAL 1000		rev	
		angular	0° ±2°	amphenol-icc.com		74817	
		title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.		cat. no.		Product - Customer Drw	
				dwg no 74817		sheet 1 of 9	
						rev BA	

Creo F:14:ELX-FCI:ACC, REV F, 2020-12-21

PRODUCT NUMBER
SEE SHEET 1



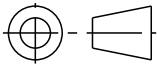
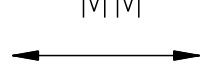
**RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)
FOR PTH REFER DRAWING 58351**

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

Creo F-14; ELX-IC; 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
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	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Nirmal Sam-MB	2022/03/07			ecn no	ELX-I-44055-1		
		chr	-	-				rel level	Released	
ISO 406	surface	appr	Kuriakose, San	2022/03/09	product family	VERTICAL SIGNAL HDR 5 ROW		rev	BA	
ISO 1101		linear	0.X	±0.3	P.F. 30 POS. SELECT LOAD STD.	74817				
ISO 1302			0.XX	±0.13						
	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw	sheet 3 of 9			

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	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Nirmal Sam-MB		2022/03/07				ecn no	ELX-I-44055-1				
		chr	-		-				rel level	Released				
ISO 406	surface	appr	Kuriakose, San		2022/03/09		product family							
ISO 1101		linear	0.X	±0.3	Amphenol FCI	VERTICAL SIGNAL HDR 5 ROW		dwg no	74817		rev	BA		
			0.XX	±0.13		P.F. 30 POS. SELECT LOAD STD.								
	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 METAL 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 METAL 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 METAL 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 ISO 406 ISO 1101	eng	Nirmal Sam-MB	2022/03/07			←→	ecn no	ELX-I-44055-1	rel level	Released	
		chr	-								-
	appr	Kuriakose, San	2022/03/09	product family							
surface ISO 1302	linear	0.X	±0.3	Amphenol FCI	VERTICAL SIGNAL HDR 5 ROW				dwg no	74817	rev
		0.XX	±0.13								
0.XXX	±0.050	P.F. 30 POS. SELECT LOAD STD.				BA					
angular	0°	±2°									

A

B

C

D

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X016LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	04	04	04	04	04
	B	01	02	02	02	02	01
	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-X017LF	E	01	01	01	01	01	01
	D	01	01	01	01	01	01
	C	03	03	03	03	03	03
	B	01	01	01	01	01	01
	A	01	01	01	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X018LF	E	03	02	02	01	01	01
	D	03	02	02	01	01	01
	C	03	02	02	03	03	03
	B	03	02	02	01	01	01
	A	03	02	02	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X019LF	E	01	01	01	02	02	03
	D	01	01	01	02	02	03
	C	03	03	03	02	02	03
	B	01	01	01	02	02	03
	A	01	01	01	02	02	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X023LF **	E	01	03	03	03	01	01
	D	01	03	03	03	01	19
	C	01	01	01	01	01	19
	B	01	01	01	01	01	19
	A	01	01	01	19	19	19
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X024LF *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-X025LF **	E	01	19	01	01	01	01
	D	01	19	01	01	01	01
	C	01	19	01	01	01	01
	B	01	19	01	01	01	01
	A	01	19	01	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X026LF *RPU	E	02	02	49	49	49	49
	D	02	02	49	49	49	49
	C	02	02	49	49	49	49
	B	02	02	49	49	49	49
	A	02	02	49	49	49	49
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X027LF *RPU	E	49	49	49	49	02	02
	D	49	49	49	49	02	02
	C	49	49	49	49	02	02
	B	49	49	49	49	02	02
	A	49	49	49	49	02	02
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X028LF *RPU	E	49	49	49	49	49	49
	D	49	49	49	49	49	49
	C	49	49	49	49	49	49
	B	49	49	49	49	49	49
	A	49	49	49	49	49	49
GND	01	01	01	01	01	01	

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

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 3.80 - 6.80 FOR METRAL 1000 RECEPTACLE APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (4.80) - 6.80 FOR METRAL 4000 APPLICATIONS

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 3.80 - 6.80 FOR METRAL 1000 RECEPTACLE APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (4.80) - 6.80 FOR METRAL 4000 APPLICATIONS

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 3.80 - 6.80 FOR METRAL 1000 APPLICATIONS, AND 4.80 - 6.80 FOR METRAL 4000 APPLICATIONS

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X029LF	E	01	01	01	01	01	01
	D	01	01	01	01	01	02
	C	01	01	01	01	01	01
	B	01	01	01	01	01	01
	A	01	01	03	01	01	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X030LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	03	02	03	02	02	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X031LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	01	03	02	03	02	02
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X032LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	02	02	02	02	02	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X033LF	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	01	02	02	02	02	03
GND	01	01	01	01	01	01	

* 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	-	-	product family			rel level	Released	
ISO 1302	appr	Kuriakose, San	2022/03/09						
surface	linear	0.X	±0.3	Amphenol FCI	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 6 of 9		

Creo F110; ELX-FCI; AEC; REV F; 2020-12-21

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	

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

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	

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-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	

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		eng Nirmal Sam-MB 2022/03/07				ecn no ELX-I-44055-1		rel level Released	
ISO 406 ISO 1101		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr -		product family			
surface		linear		appr Kuriakose, San 2022/03/09		product family		rel level	
ISO 1302		angular		amphenol-icc.com		product family		rev	
		0.X ±0.3		cat. no.		VERTICAL SIGNAL HDR 5 ROW		dwg no 74817	
		0.XX ±0.13				P.F. 30 POS. SELECT LOAD STD.		BA	
		0.XXX ±0.050				Product - Customer Drw		sheet 7 of 9	
		0° ±2°							

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	

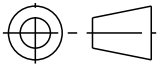

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X054LF ***RPU	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
GND	01	22	22	22	22	01	

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	

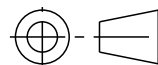

* REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
 ** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE
 *** REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

spec ref		dr	P-Mathew Nebu	2011/05/20	projection 	MM 	size	A4	scale	1:1
tolerance std 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		
surface ISO 1302	linear	appr	Kuriakose, San	2022/03/09	product family		74817	rev BA		
		0.X	±0.3	Amphenol FCI		VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.				
		0.XX	±0.13	amphenol-icc.com			cat. no.	Product - Customer Drw	sheet 8 of 9	
		0.XXX	±0.050							
	angular	0°	±2°							

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	
surface ISO 1302	linear	appr	Kuriakose, San	2022/03/09	product family		rev			
		0.X	±0.3	Amphenol FCI	title		74817		BA	
		0.XX	±0.13							
0.XXX	±0.050									
angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw		sheet 9 of 9			