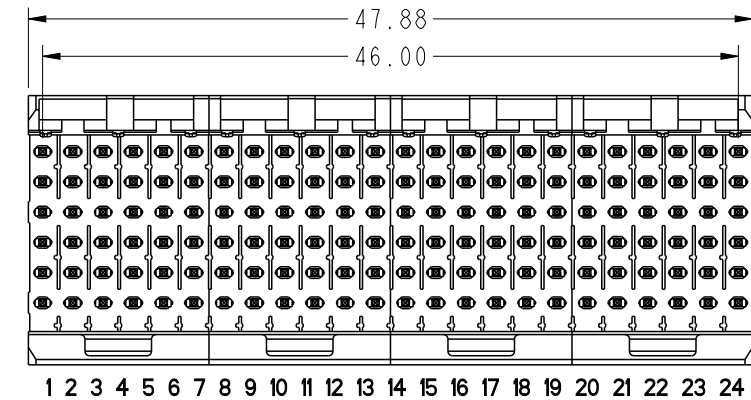
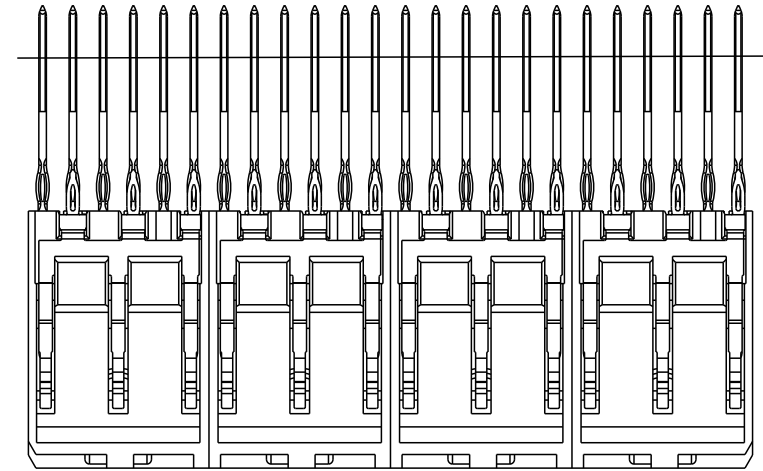
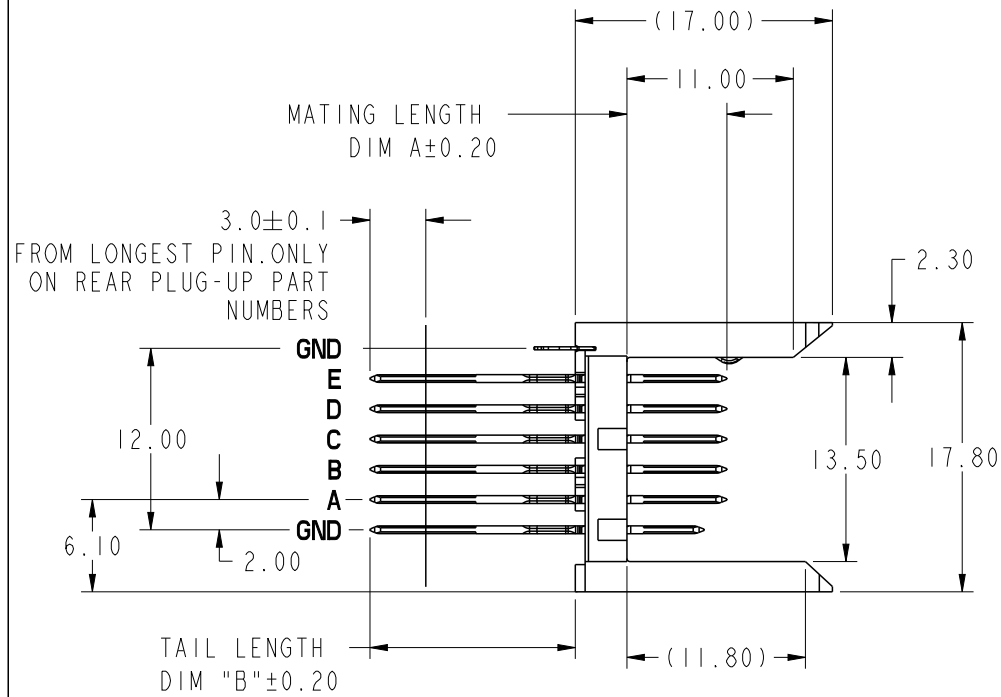


PRODUCT NUMBER	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
63779-XZZZLF	84818-X04LF



spec ref		dr		P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1				
tolerance std		eng		Narayanan, Aru	2021/01/16			ecn no		ELX-I-39667-1					
ISO 406		chr		-	-			rel level		Released					
ISO 1101		appr		Kuriakose, San	2021/01/16			product family		METRAL 1000					
surface	linear	0.X	±0.3	Amphenol FCI	title			VERTICAL SIGNAL HDR 5 ROW			dwg no	63779		rev	U
		0.XX	±0.13												
		0.XXX	±0.050												
	ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw			sheet 1 of 7				

PIN 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 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*		4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	5.75	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*		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	6.50	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

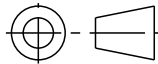
** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF
PIN 'GND' IS ONE SIZE SHORTER THAN THE OTHER PINS.

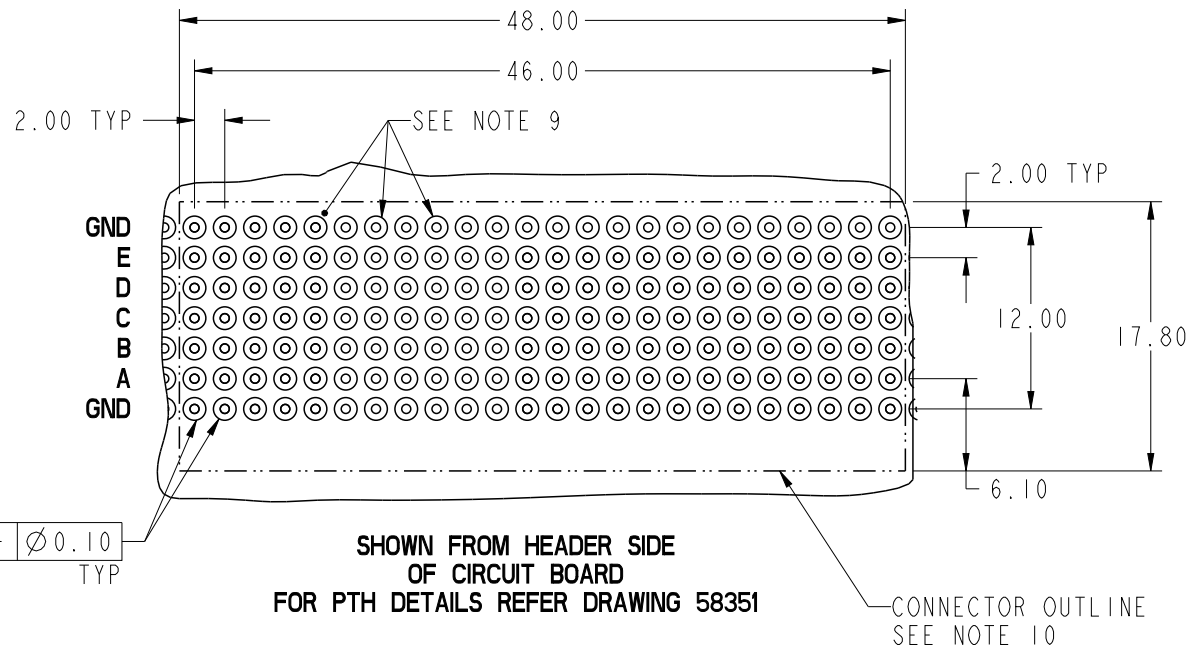
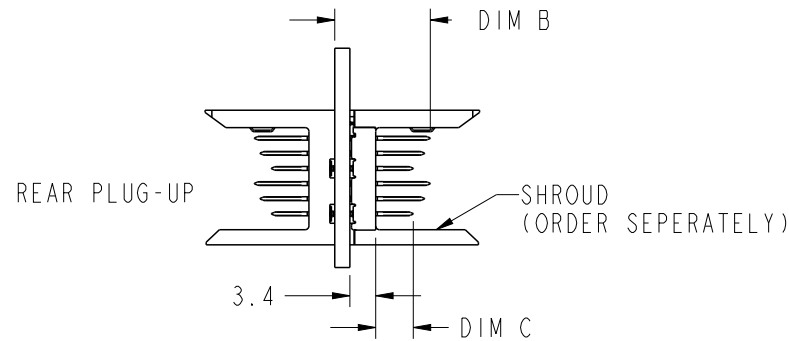
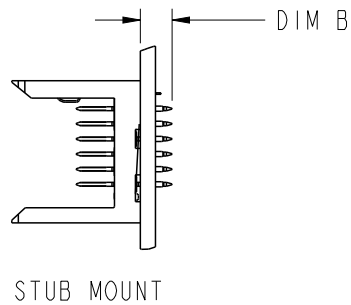
spec ref		dr		P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng		Narayanan, Aru	2021/01/16			ecn no	ELX-I-39667-1						
		chr		-	-			rel level					Released		
		appr		Kuriakose, San	2021/01/16			product family		METRAL 1000					
surface	linear	0.X	±0.3	Amphenol FCI	title				VERTICAL SIGNAL HDR 5 ROW		dwg no	63779		rev	U
		0.XX	±0.13												
		0.XXX	±0.050												
	ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw				sheet 2 of 7			

PIN 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 THAN 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	Narayanan, Aru			2021/01/16	ecn no			ELX-I-39667-1		
				chr	-			-	rel level			Released		
ISO 406 ISO 1101		appr		Kuriakose, San	2021/01/16	product family		METRAL 1000						
surface	linear	0.X	±0.3	Amphenol FCi	title			VERTICAL SIGNAL HDR 5 ROW		dwg no		63779	rev	U
		0.XX	±0.13											
		0.XXX	±0.050		P.F. 120 POS. SELECT LOAD STD									
ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw			sheet 3 of 7				



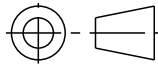
spec ref				dr	P-Mathew Nebu	2011/05/20	projection	MM	size	A4	scale	1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Narayanan, Aru	2021/01/16			ecn no	ELX-I-39667-1		
				chr	-	-			rel levelReleased			
				appr	Kuriakose, San	2021/01/16						product family
surface ISO 1302 ✓	linear	0.X	±0.3	Amphenol FCI	titleVERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD				dwg no	63779		rev U
		0.XX	±0.13									
		0.XXX	±0.050									
	angular	0°	±2°	amphenol-icc.com	cat. no.			Product - Customer Drw			sheet 4 of 7	

SELECT LOAD PATTERNS																									
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X001LF	E	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	D	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	C	03	02	02	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	02	02	03
	B	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	A	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	GND	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X002LF SEE NOTE 12 *RPU**	E	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	D	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	C	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	B	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	A	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	GND	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X003LF SEE NOTE 12 *RPU**	E	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	D	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	C	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	B	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	A	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	GND	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55

** NOT A POSSIBLE METRAL
1000 OR 4000 REAR PLUG-UP
PART NUMBER,
SPECIAL APPLICATION.

** NOT A POSSIBLE METRAL
1000 OR 4000 REAR PLUG-UP
PART NUMBER,
SPECIAL APPLICATION.

*REAR PLUG-UP PART NUMBER

spec ref		dr		P-Mathew Nebu	2011/05/20			size	A4	scale	1:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng		Narayanan, Aru	2021/01/16			ecn no	ELX-I-39667-1					
		chr		-	-			rel level			Released			
ISO 406 ISO 1101		appr		Kuriakose, San	2021/01/16	product family		METRAL HS						
surface 	linear	0.X	±0.3		title			VERTICAL SIGNAL HDR 5 ROW		dwg no	63779		rev	U
		0.XX	±0.13											
		0.XXX	±0.050		P.F. 120 POS. SELECT LOAD STD									
ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw			sheet 5 of 7				

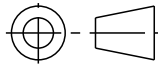
SELECT LOAD PATTERNS

PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X004LF	E	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	C	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	04	04	04
	B	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	GND	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02

PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X005LF	E	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	C	04	02	02	02	02	02	04	02	02	02	02	02	01	02	02	02	02	02	04	02	02	02	02	02
	B	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	GND	-	02	02	02	02	-	-	02	02	02	02	-	-	02	02	02	02	-	-	02	02	02	02	-

PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X006LF *RPU	E	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	D	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	C	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	B	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	A	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	GND	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

*REAR PLUG-UP PART NUMBER

spec ref		dr		P-Mathew Nebu	2011/05/20			size	A4	scale	1:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Narayanan, Aru	2021/01/16	ecn no			ELX-I-39667-1							
		chr	-	-	rel level			Released							
ISO 406 ISO 1101		appr	Kuriakose, San	2021/01/16	product family			METRAL HS							
surface  ISO 1302	linear	0.X	±0.3			title	VERTICAL SIGNAL HDR 5 ROW				dwg no	63779		rev	U
		0.XX	±0.13												
		0.XXX	±0.050												
	angular	0°	±2°		amphenol-icc.com	cat. no.	Product - Customer Drw				sheet 6 of 7				

NOTES:

- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
- SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
- SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
- 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 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.

- THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
- 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. P/N 63779-XZZZLF



- PIN CODE 55 CANNOT BE USED WITH METRAL 1000 SHROUDS. PIN CODE 55 HAS A DIM A=5.75mm, DIM B=11.55mm.
- THE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY  REGULATIONS AS DESCRIBED IN GS-47-0004.
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN
- 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	Narayanan, Aru			2021/01/16	ecn no	ELX-I-39667-1				
				chr	-			-						
				appr	Kuriakose, San			2021/01/16		product family		METRAL HS	rel level	Released
surface	linear	0.X	±0.3	Amphenol FCI	title			VERTICAL SIGNAL HDR 5 ROW		dwg no	63779		rev	U
		0.XX	±0.13											
		0.XXX	±0.050											
	ISO 1302	angular	0°	±2°	amphenol-icc.com	cat. no.		Product - Customer Drw			sheet 7 of 7			

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

PDS: Rev :U

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