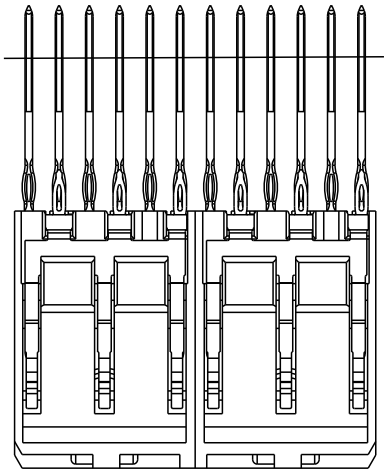
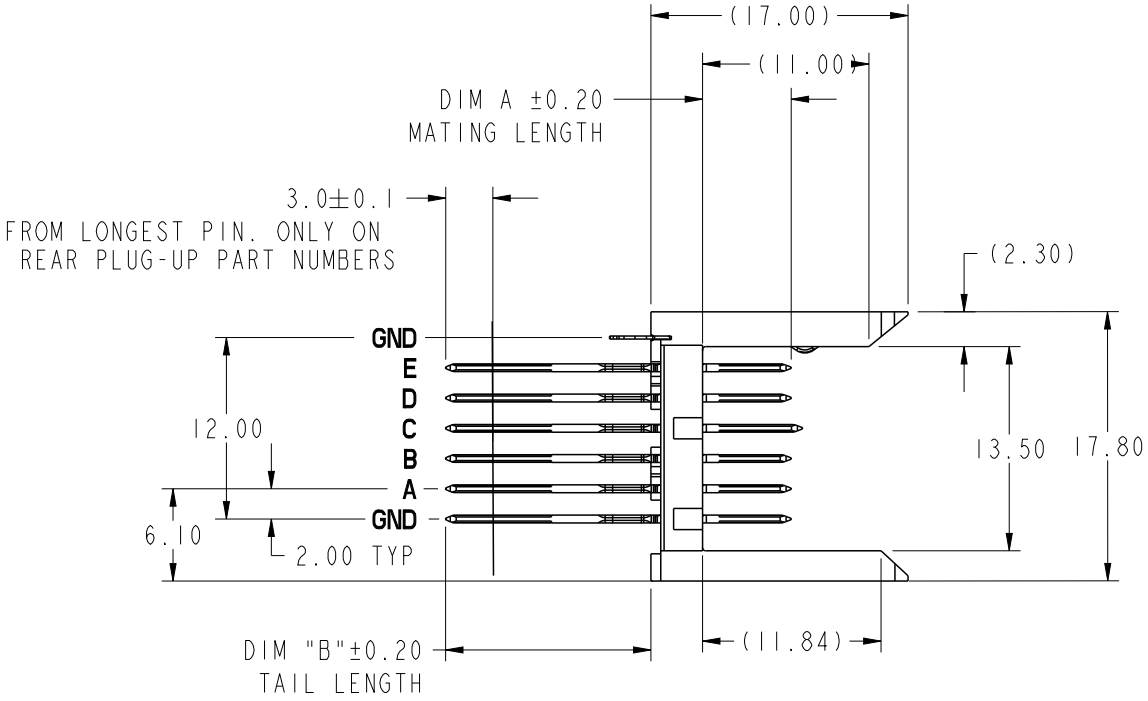
PRODUCT NUMBER	SHROUD FOR REAR PLUG UP APPLICATIONS
63743-XYYY(L)LF	84818-X02LF

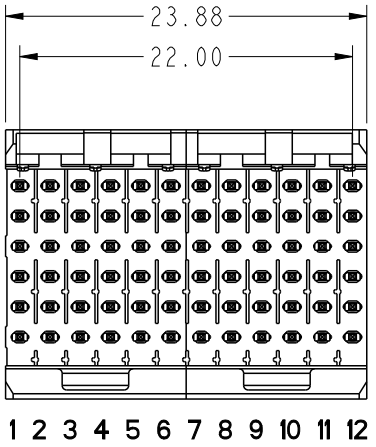
X REFER PLATING PERFORMANCE △
SEE NOTE 6

L REFER LUBRICATED (OPTIONAL) △
SEE NOTE 6

X REFER PLATING PERFORMANCE △
SEE NOTE 6







spec ref				dr	P-Mathew Nebu	2011/05/20	projection
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Rahul Mohan-M	2021/08/25	MM
				chr	-	-	size A4 / scale 1:1
				appr	Kuriakose, San	2021/08/25	ecn no ELX-I-41554-1
surface 3.2 ISO 1302	linear	0.X	±0.3	product family	METRAL 1000		rel level Released
		0.XX	±0.13				
		0.XXX	±0.050				
	angular	0°	±2°				

Amphenol FCi

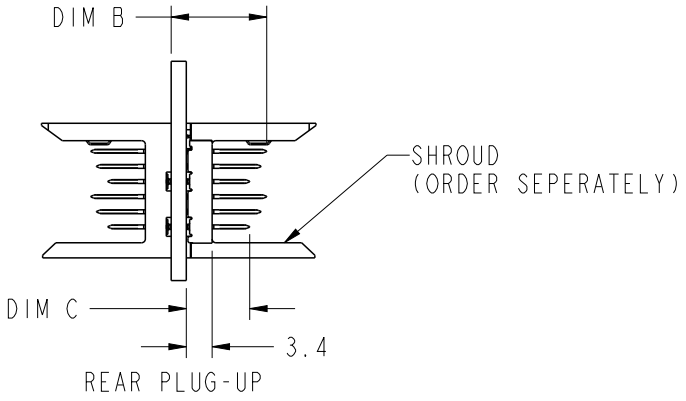
title: VERTICAL SIGNAL HDR 5 ROW P.F. 60 POS. SELECT LOAD STD.

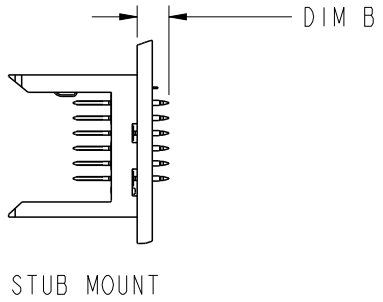
dwg no: 63743

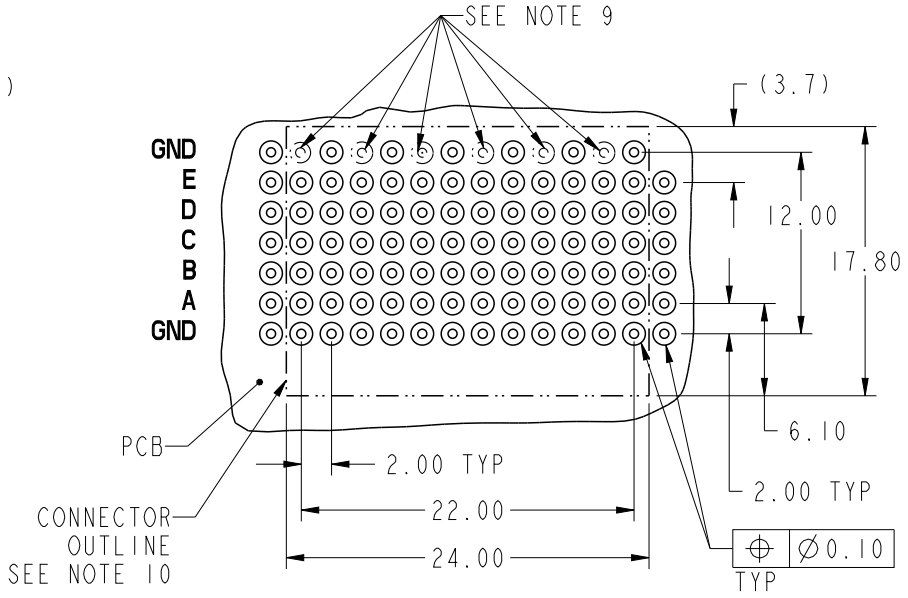
rev: W

amphenol-icc.com | cat. no. - | Product - Customer Drw | sheet 1 of 6

Creo File:ELX-MC-A4C,REV F,2020-12-21







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

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	Rahul Mohan-M	2021/08/25			ecn no ELX-I-41554-1
				chr	-	-			rel level Released
surface 3.2 ISO 1302	linear	0.X	±0.3	appr	Kuriakose, San	2021/08/25	product family	METRAL 1000	
		0.XX	±0.13	Amphenol FCi	title: VERTICAL SIGNAL HDR 5 ROW P.F. 60 POS. SELECT LOAD STD.		dwg no 63743		rev W
		0.XXX	±0.050						
	angular	0°	±2°	amphenol-icc.com	cat. no. -		Product - Customer Drw		sheet 2 of 6

Creo File:ELX-MC-A4C,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 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 THAN THE OTHER PINS.

spec ref			dr	P-Mathew Nebu	2011/05/20	projection	MM
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Rahul Mohan-M	2021/08/25		
			chr	-	-		
			appr	Kuriakose, San	2021/08/25	product family	METRAL HS
surface ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	VERTICAL SIGNAL HDR 5 ROW P.F. 60 POS. SELECT LOAD STD.	dwg no 63743
		0.XX	±0.13				rev W
		0.XXX	±0.050				
	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw	sheet 3 of 6

size A4 | scale 1:1 | ecn no ELX-I-41554-1 | rel level Released

Amphenol FCi

Creo File:ELX-MC-A4C,REV F,2020-12-21

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
THAN THE OTHER PINS.

spec ref			dr	P-Mathew Nebu	2011/05/20	projection	MM
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Rahul Mohan-M	2021/08/25		
			chr	-	-		
			appr	Kuriakose, San	2021/08/25	product family	METRAL HS
surface ISO 1302	linear	0.X ±0.3	Amphenol FCi	title	VERTICAL SIGNAL HDR 5 ROW P.F. 60 POS. SELECT LOAD STD.	dwg no	63743
		0.XX ±0.13					
		0.XXX ±0.050					
	angular	0° ±2°	amphenol-icc.com	cat. no.	Product - Customer Drw		

size	scale	rev
A4	1:1	W

ecn no ELX-I-41554-1

rel level Released

sheet 4 of 6

Creo File:ELX-MC-A4C,REV F,2020-12-21

SELECT LOAD PATTERNS

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X001LF	E	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
	C	04	04	04	04	04	04	04	04	04	04	04	04
	B	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
	GND	02	02	02	02	02	02	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X002LF	E	01	01	01	01	01	01	01	01	01	01	01	01
	D	01	01	01	01	01	01	01	01	01	01	01	01
	C	03	03	03	03	03	03	03	03	03	03	03	03
	B	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
	GND	01	01	01	01	01	01	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X003LF *RPU	E	48	48	48	48	48	48	48	48	48	48	48	48
	D	48	48	48	48	48	48	48	48	48	48	48	48
	C	50	50	50	50	50	50	50	50	50	50	50	50
	B	48	48	48	48	48	48	48	48	48	48	48	48
	A	48	48	48	48	48	48	48	48	48	48	48	48
	GND	48	48	48	48	48	48	48	48	48	48	48	48

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X004LF	E	19	02	02	02	02	02	02	02	02	02	02	02
	D	19	02	02	02	02	02	02	02	02	02	02	02
	C	19	02	02	02	02	02	02	02	02	02	02	02
	B	19	02	02	02	02	02	02	02	02	02	02	02
	A	19	02	02	02	02	02	02	02	02	02	02	02
	GND	02	02	02	02	02	02	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X005LF	E	01	01	01	01	01	01	01	01	01	01	01	01
	D	01	01	01	01	01	02	01	01	01	01	01	02
	C	01	01	01	01	01	01	01	01	01	01	01	01
	B	01	01	01	01	01	01	01	01	01	01	01	01
	A	01	01	03	01	01	03	01	01	03	01	01	03
	GND	01	01	01	01	01	01	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X006LF	E	01	01	01	01	01	01	01	01	01	01	01	01
	D	02	01	01	01	01	01	02	01	01	01	01	01
	C	02	01	01	01	01	01	02	01	01	01	01	01
	B	03	03	03	03	03	03	03	03	03	03	03	03
	A	01	01	01	01	01	01	01	01	01	01	01	01
	GND	01	01	01	01	01	01	01	01	01	01	01	01

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X007LF	E	02	02	02	02	01	02	02	02	02	02	02	02
	D	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
	B	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
	GND	02	02	02	02	02	02	02	02	02	02	02	02

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X008LF	E	02	02	02	02	01	02	02	02	02	02	02	02
	D	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
	B	02	02	02	02	03	02	02	02	02	02	03	02
	A	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

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X009LF *RPU	E	06	05	06	05	06	05	06	05	06	05	06	05
	D	06	06	06	06	06	05	06	05	05	05	05	05
	C	06	05	05	05	05	05	06	05	05	05	05	05
	B	06	05	05	05	05	05	06	05	05	05	05	05
	A	06	05	05	05	05	05	06	05	05	05	05	05
	GND	31	31	31	31	31	31	31	31	31	31	31	31

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X010LF	E	55	55	02	02	02	02	55	55	55	55	55	55
	D	55	55	02	02	02	02	55	55	55	55	55	55
	C	55	55	02	02	02	02	55	55	55	55	55	55
	B	55	55	02	02	02	02	55	55	55	55	55	55
	A	55	55	02	02	02	02	55	55	55	55	55	55
	GND	55	55	02	02	02	02	55	55	55	55	55	55

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X011LF	E	55	55	55	55	55	55	55	55	55	55	55	55
	D	55	55	55	55	55	55	55	55	55	55	55	55
	C	55	55	55	55	55	55	55	55	55	55	55	55
	B	55	55	55	55	55	55	55	55	55	55	55	55
	A	55	55	55	55	55	55	55	55	55	55	55	55
	GND	55	55	55	55	55	55	55	55	55	55	55	55

METRAL P/N	ROW	CONTACT CODE 1	2	3	4	5	6	7	8	9	10	11	12
63743-X012LF	E	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
	C	02	02	02	02	02	02	02	02	02	02	02	02
	B	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
	GND	-	02	02	02	02	-	-	02	02	02	02	-

*REAR PLUG-UP PART NUMBER

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
3.25 - 4.99 FOR
METRAL 1000
RECEPTACLE
APPLICATIONS AND 3.30 - 4.95
FOR METRAL
4000 APPLICATIONS

NOT A STANDARD METRAL 1000
OR METRAL 4000 APPLICATION

spec ref			dr	P-Mathew Nebu	2011/05/20	projection	MM
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Rahul Mohan-M	2021/08/25		
			chr	-	-		
			appr	Kuriakose, San	2021/08/25	product family	METRAL HS
surface ISO 1302	linear	0.X	±0.3	Amphenol FCI	title	VERTICAL SIGNAL HDR 5 ROW P.F. 60 POS. SELECT LOAD STD.	dwg no 63743
		0.XX	±0.13				
		0.XXX	±0.050				
	angular	0°	±2°	amphenol-icc.com	cat. no.	Product - Customer Drw	sheet 5 of 6

size	scale
A4	1:1
ecn no	ELX-I-41554-1
rel level	Released
rev	W

Amphenol FCI

Creo File:ELX-MC-A4C,REV F,2020-12-21

PDS: Rev :W STATUS:Released Printed: Aug 25, 2021

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 95051I-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."

3. SEE FCI PUBLICATION 95051I-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 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 THE 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
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Rahul Mohan-M	2021/08/25	MM
				chr	-	-	size A4 / scale 1:1
				appr	Kuriakose, San	2021/08/25	ecn no ELX-I-41554-1
surface ISO 1302	linear	0.X	±0.3				product family METRAL HS / rel level Released
		0.XX	±0.13				
		0.XXX	±0.050				
	angular	0°	±2°				

Amphenol FCi

title: VERTICAL SIGNAL HDR 5 ROW
P.F. 60 POS. SELECT LOAD STD.

dwg no 63743 | rev W

amphenol-icc.com | cat. no. | Product - Customer Drw | sheet 6 of 6

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