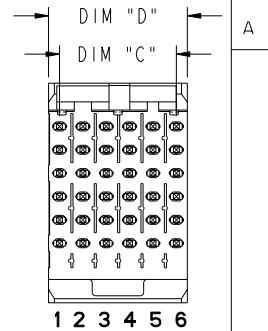
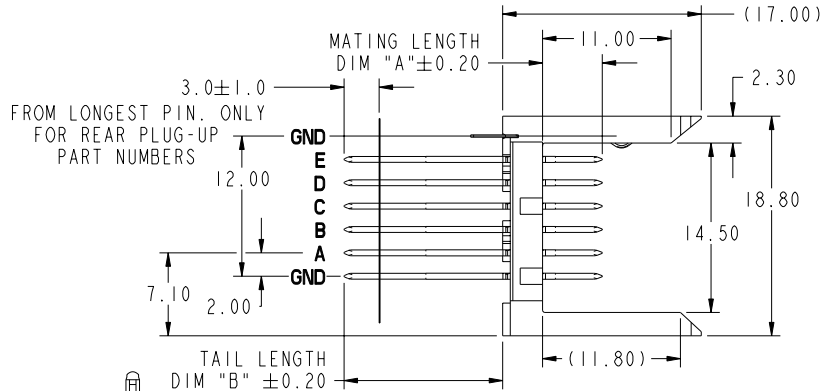
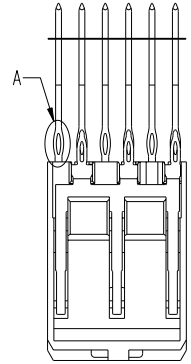





PRODUCT NUMBER	MATING CONTACT AREA PLATING PERFORMANCE	SHROUD TO USE FOR REAR-PLUG-UP APPLICATIONS	CONNECTOR SIZE	PIN FIELD DIM C	LENGTH DIM D	PRESS FIT TAIL PLATING
84881-101ZZZ	TELCORDIA CO	84818-101	1 MOD	10.00	11.88	STANDARD
84881-101ZZLF		84818-101LF				LEAD FREE
84881-102ZZZ		84818-102	2 MOD	22.00	23.88	STANDARD
84881-102ZZLF		84818-102LF				LEAD FREE
84881-103ZZZ		84818-103	3 MOD	34.00	35.88	STANDARD
84881-103ZZLF		84818-103LF				LEAD FREE
84881-104ZZZ		84818-104	4 MOD	46.00	47.88	STANDARD
84881-104ZZLF		84818-104LF				LEAD FREE
84881-501ZZZ	TELCORDIA UE	84818-101	1 MOD	10.00	11.88	STANDARD
84881-501ZZLF		84818-101LF				LEAD FREE
84881-502ZZZ		84818-102	2 MOD	22.00	23.88	STANDARD
84881-502ZZLF		84818-102LF				LEAD FREE
84881-503ZZZ		84818-103	3 MOD	34.00	35.88	STANDARD
84881-503ZZLF		84818-103LF				LEAD FREE
84881-504ZZZ		84818-104	4 MOD	46.00	47.88	STANDARD
84881-504ZZLF		84818-104LF				LEAD FREE

SEE DETAIL A



 EYE OF NEEDLE PRESS FIT SECTION
 BABY-H PRESS FIT SECTION
 DETAIL A
 SCALE 4:1
 SEE NOTE 17

mat'l code: SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCJ	
ltr	ecm no.	dr	date	0.X ±0.3	COPY	www.fciconnect.com	
M	V06-0569	DCH	2006-06-12	linear 0.XX ±0.13	projection	title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.	
N	V07-0179	DCH	2007-04-18	.xxx ±.051		product family METRAL 1000	
P	V08-0029	HTB	2008-01-21	angles 0° ±2°		size	code 213
R	V08-0131	LP	2008-03-24	dr E. KROPER. 2001-01-23	MM	sheet 1 of 6	
-	-	-	-	enr J. VOLSTORF 2001-01-23	scale	1:1	
K	V04-0399	DAI	2004-05-24	chr J. VOLSTORF 2001-01-23	A	dwg no 84881	
L	V05-0806	VS	2005-09-22	oppd J. VOLSTORF 2001-01-23			
sheet index	revision sheet	R	R	R	R	R	R
		1	2	3	4	5	6

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REV E - 2006-04-18

Pro/E

PDM: Rev:R

STATUS: Released

Printed: Dec 17, 2009

cage code 22526



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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
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.

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	projection	COPY	title			
R				angles	0.XX ± 0.13			VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.			
					.XXX ± .051			product family		METRAL 1000	code
				dr	E. KROPER. 2001-01-23	scale		size		dwg no	213
				engr	J. VOLSTORF 2001-01-23	1:1		84881		sheet	2
				chr	J. VOLSTORF 2001-01-23						
				oppd	J. VOLSTORF 2001-01-23						
sheet index	revision sheet							cage code		22526	4



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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
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.

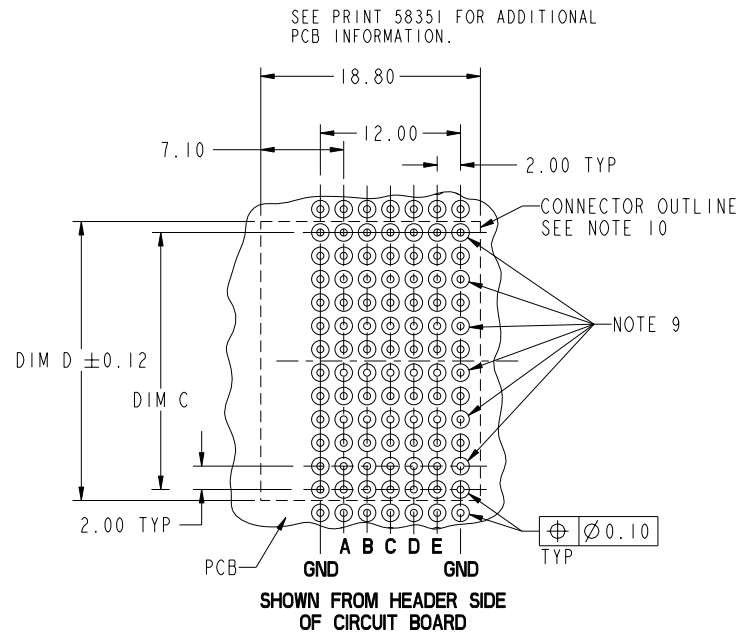
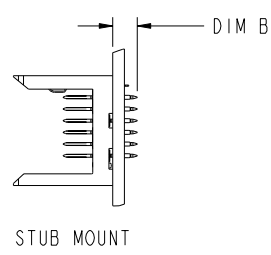
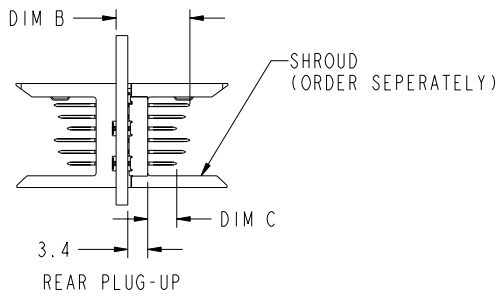
mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY		
R					0.XX ±0.13		title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.		
				angles	.XXX ±.051		product family METRAL 1000		
				dr	0° ±2°	scale	size	code	213
				engr	E. KROPER. 2001-01-23	1:1	dwg no	sheet	3
				chr	J. VOLSTORF 2001-01-23		84881		
				oppd	J. VOLSTORF 2001-01-23				
sheet index	revision sheet								

REV E - 2004-04-18

PDM: Rev:R STATUS:Released Printed: Dec 17, 2009

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	Ø 0.65-0.80
DRILLED HOLE	Ø 0.81-0.86 (Ø 0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015



mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCJ	
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	www.fcjconnect.com	
					0.XX ±0.13			title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.	
				angles	.XXX ±.051			product family METRAL 1000	code
				dr	0° ±2°	MM	size	dwg no	84881
				enr		scale	A	sheet	4
				chr	dr E. KROPER. 2001-01-23	1:1			
				appd	enr J. VOLSTORF 2001-01-23				
sheet index	revision sheet				chr J. VOLSTORF 2001-01-23				
					appd J. VOLSTORF 2001-01-23				

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REV E - 2004-04-18

Pro/E 3 cage code 22526 4
PDM: Rev:R STATUS: **Released** Printed: Dec 17, 2009



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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84881-XY001 SEE NOTE 16 LEAD FREE OPTION	E	01
	D	
	C	
	B	
	A	
	GND	
84881-XY011 SEE NOTE 16 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	01
84881-XY021 SEE NOTE 16 LEAD FREE OPTION	E	03
	D	
	C	
	B	
	A	
	GND	01
84881-XY050 *RPU ** SEE NOTE 16 LEAD FREE OPTION	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.

mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY	title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.			
R					0.XX ±0.13			product family METRAL 1000		code 213	
				angles	.XXX ±.051			size	dwg no	84881	
				dr	E. KROPER. 2001-01-23	scale	1:1				
				engr	J. VOLSTORF 2001-01-23						
				chr	J. VOLSTORF 2001-01-23						
				oppd	J. VOLSTORF 2001-01-23						
sheet index	revision sheet										

cage code 22526

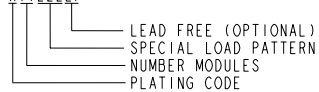
Pro/E 3 | 4
PDM: Rev:R STATUS: **Released** Printed: Dec 17, 2009

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 FCJ PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCJ 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. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHER BRONZE
GROUND SPRING MATERIAL: PHOSPHER BRONZE
6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS AS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn, PLATING ON ALL OTHER TAILS IS SnPb.
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. CURRENT RATING : 1 AMP PER PIN
12. TEMPERATURE RANGE : -55°C TO +105°C
13. P/N 84881-~~XXXXXX~~YYZZLF



14. P/N 84881-X01ZZZ SHOWN.
15. PRODUCTS WHERE THE PART NUMBERS ENDS IN LF MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008. ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
16. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 84881-XXXXLF
17. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
ltr	ecm no.	dr	date	linear	0.X ± 0.3	projection	COPY		
R					0.XX ± 0.13		title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.		
				angles	.XXX ± .051		product family METRAL 1000 code 213		
				dr	0° ± 2°	MM	size dwg no 84881 sheet 6		
				eng	E. KROPER. 2001-01-23	scale	A		
				chr	J. VOLSTORF 2001-01-23	1:1			
				appd	J. VOLSTORF 2001-01-23				
sheet index	revision sheet								



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