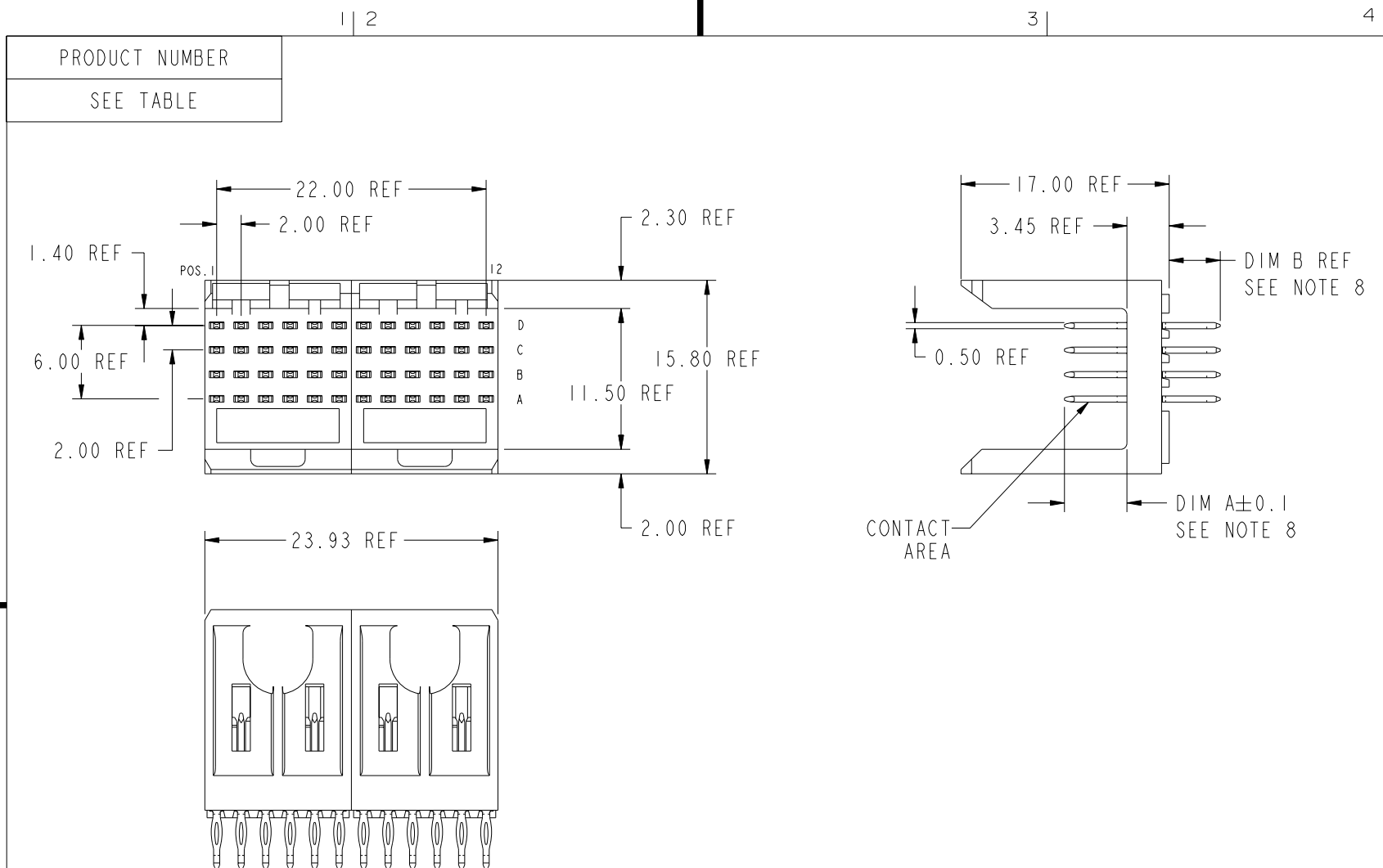


AFCEA



mat'l code		SEE NOTES		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY		 projection
H	V20599	TAB	03/25/02		0.XX ±0.13				
J	V03-0024	TAB	02/05/03		.XXX ±.051				
K	V03-0868	HTB	08/05/03	angles	0° ±2°		 MM		product family METRAL size dwg no 85714
L	V03-1193	HTB	11/14/03	dr	T.BRUNGARD 11/19/99		code		
M	V03-1320	TAB	12/16/03	engr	M.STRAWSER 11/19/99		213		
N	V04-0786	DAI	08/24/04	chr	M.STRAWSER 11/19/99		sheet		
P	V05-0365	VS	05/06/05	appd	M.STRAWSER 02/29/00		1 of 6		
sheet index	revision sheet	P	P	P	P	P	P	P	
		1	2	3	4	5	6		

Pro/E

cage code	22526
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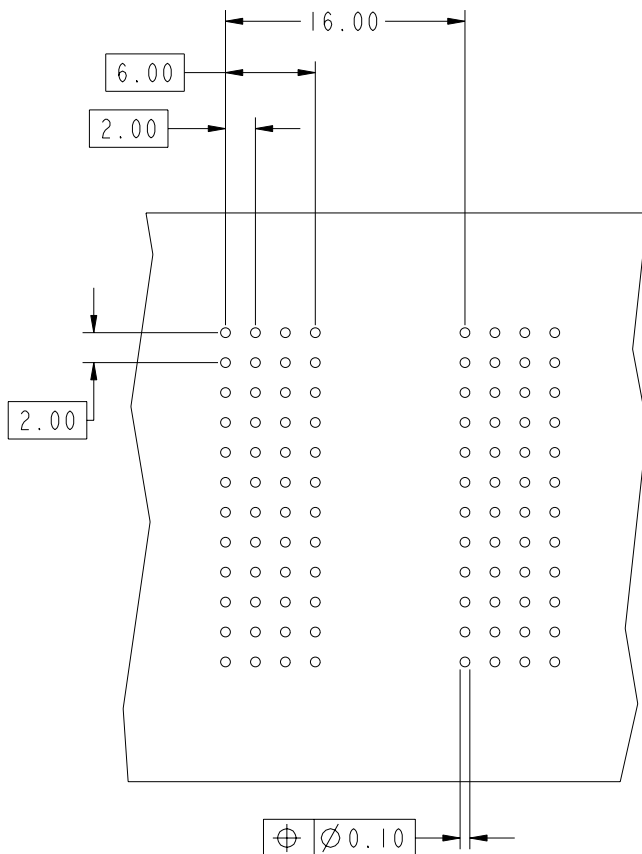
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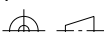


REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY (SIGNAL PRESS-FIT)		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	5.00	4.30
2	5.75	4.30
3	6.50	4.30
4	7.25	4.30
5	5.00	13.60
6	5.75	13.60
7	6.50	13.60
8	7.25	13.60
9	5.00	17.00
10	5.75	17.00
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
15	8.25	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00
22	5.00	12.10
25	5.75	15.60
31	5.75	12.90
40	5.00	15.60
41	6.50	15.60
42	7.25	15.60
43	8.00	15.60
45	6.50	12.10
48	5.00	15.10
59	5.00	11.80
60	5.75	11.80
61	6.50	11.80
62	7.25	11.80
63	8.00	11.80
64	5.75	14.90

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mat'l code				--		tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY		projection 	title	
P					0.XX ±0.13					METRAL SIGNAL HEADER	
					.XXX ±.051					2 MOD, 4 ROW PRESS-FIT	
				angles	0° ±2°						
		dr			T.BRUNGARD	11/19/99	MM ←————→	product family		METRAL	code
		enrg			M.STRAWSER	11/19/99		size	dwg no	213	sheet 2
		chr			M.STRAWSER	11/19/99		scale		85714	
		appd			M.STRAWSER	02/29/00	1:1	A			
sheet	revision										
index	sheet										

Pro/E

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cage code 22526

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PDM: Rev:P

STATUS:Released

Printed: Feb 10, 2006

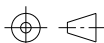
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PRODUCT NUMBER	DESCRIPTION	PLATING IN PRESS FIT TAIL AREA	PERFORMANCE LEVEL OF PLATING IN CONTACT AREA
85714-NIYY	STANDARD	TIN LEAD	TELCORDIA CO (NXT)
85714-N5YY	STANDARD	TIN LEAD	TECORDIA UE (NXT)
85714-IYY	STANDARD	TIN LEAD	TELCORDIA CO
85714-2YY	STANDARD	TIN LEAD	TELECOM CLASS
85714-3YY	STANDARD	TIN LEAD	IEC CLASS I
85714-5YY	STANDARD	TIN LEAD	TELCORDIA UE
85714-9YY	STANDARD	TIN LEAD	TELCORDIA CO
85714-NIYYLF	LEAD FREE	TIN	TELCORDIA CO (NXT), IEC CLASS I, SEE NOTES 9 AND 10
85714-N5YYLF	LEAD FREE	TIN	TECORDIA UE (NXT) SEE NOTES 9 AND 10
85714-IYYLF	LEAD FREE	TIN	TELCORDIA CO, IEC CLASS I, SEE NOTES 9 AND 10
85714-2YYLF	LEAD FREE	TIN	TELECOM CLASS, SEE NOTES 9 AND 10
85714-5YYLF	LEAD FREE	TIN	TELCORDIA UE, SEE NOTES 9 AND 10

NOTES:
1. FOR DIM A AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
3. PIN MATERIAL:
PHOSPHOR BRONZE.
4. PLATING ON: PRESS-FIT TAIL AREA SEE PRODUCT NUMBER
TABLE. PLATING ON CONTACT AREA CONFORMS TO
PERFORMANCE LEVEL SHOWN IN TABLE ON SHEET3.
5. PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"
WILL BE ADDED TO THE END OF THE PART NUMBER.
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
7. PRODUCT SPECIFICATION: GS-12-180.
APPLICATION SPECIFICATION: BUS-20-073.
8. AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
9. THE PRODUCTS WHERE THE PART NUMBERS ENDS IN
LF MEET THE EUROPEAN UNION DIRECTIVE AND OTHER
COUNTRY REGULATIONS AS DESCRIBED IN GS-12-008.
10. ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS
CONTAINING 85714-NI--- OR 85714-N5--- WILL WITHSTAND
EXPOSURE TO 260 DEGREES C FOR 60 SECONDS IN A
CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
PART NUMBERS 85714-NI--- AND 85714-N5--- WILL NOT
WITHSTAND REFLOW AND THE Au CONTACT SURFACE
OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140
DEGREES C FOR NO LONGER THAN 15 SECONDS IN A
WAVE SOLDER APPLICATION.

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com			
lfr	ecn no.	dr	date	linear	0.X ±0.3		projection		COPY	title	METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT		
P					0.XX ±0.13								
					.XXX ±.051								
				angles	0° ±2°			scale	A	product family	METRAL		
					dr								
					T.BRUNGARD 11/19/99		size	dwg no	85714	code	213		
					enrg M.STRAWSER 11/19/99							sheet	3
					chr M.STRAWSER 11/19/99								
					appd M.STRAWSER 02/29/00								
sheet index		revision sheet											

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	45	45	45	45	45	45	45	45	45

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	22	22	22	22	22	22	22	22	22

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	31	31	31	31	31	31	31	31	31

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	13	13	13	13	13	13	13	13	13

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		D	40	40	40	40	40	40	40	40	40

mat'l code				tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com			
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title		
P					0.XX ±0.13	MM					
					.XXX ±.051						
					0° ±2°						
					T.BRUNGARD 11/19/99						
				enr	M.STRAWER 11/19/99			product family	code		
				chr	M.STRAWER 11/19/99					size	dwg no
				appd	M.STRAWER 02/29/00						
sheet	revision							A	85714	213	
index	sheet										

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Pro/E

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cage code 22526

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PDM: Rev:P

STATUS:Released

Printed: Feb 10, 2006

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1 2												3												4																																																																																																											
METRAL P/N		CONTACT CODE MOD. 1										MOD. 2		METRAL P/N		CONTACT CODE MOD. 1										MOD. 2		METRAL P/N		CONTACT CODE MOD. 1										MOD. 2																																																																																											
ROW		1	2	3	4	5	6	7	8	9	10	11	12	ROW		1	2	3	4	5	6	7	8	9	10	11	12	ROW		1	2	3	4	5	6	7	8	9	10	11	12																																																																																										
85714-X21 AND 85714-X21LF												D		19	19	19	19	19	19	19	19	19	19	85714-X26 AND 85714-X26LF												D		40	40	40	40	40	40	40	40	40	40	85714-X31 AND 85714-X31LF												D		59	59	59	59	59	59	59	59	59	59																																																												
												C		4	4	4	4	4	4	4	4													C		25	25	25	25	25	25	25	25	25	25													C		59	59	59	59	59	59	59	59	59	59																																																														
												B		4	4	4	4	4	4	4	4													B		25	25	25	25	25	25	25	25	25	25													B		59	59	59	59	59	59	59	59	59	59																																																														
												A		19	19	19	19	19	19	19	19													A		41	41	41	41	41	41	41	41	41	41													A		61	61	61	61	61	61	61	61	61	61																																																														
85714-X22 AND 85714-X22LF												D		20	20	20	20	20	20	20	20	85714-X27 AND 85714-X27LF												D		19	19	19	19	19	19	19	19	19	85714-X32 AND 85714-X32LF												D		61	61	61	61	61	61	61	61	61	61																																																															
												C		8	8	8	8	8	8	8	8													C		2	2	2	2	2	2	2	2	2													C		60	60	60	60	60	60	60	60	60	60																																																															
												B		8	8	8	8	8	8	8	8													B		3	3	3	3	3	3	3	3	3													B		60	60	60	60	60	60	60	60	60	60																																																															
												A		20	20	20	20	20	20	20	20													A		3	3	3	3	3	3	3	3	3													A		61	61	61	61	61	61	61	61	61	61																																																															
85714-X23 AND 85714-X23LF												D		14	14	14	14	14	14	14	14	85714-X28 AND 85714-X28LF												D		3	3	3	3	3	3	3	3	3	85714-X33 AND 85714-X33LF												D		61	61	61	61	61	61	61	61	61	61																																																															
												C		20	20	20	20	20	20	20	20													C		4	4	4	4	4	4	4	4	4													C		61	61	61	61	61	61	61	61	61	61																																																															
												B		20	20	20	20	20	20	20	20													B		19	19	19	19	19	19	19	19	19													B		61	61	61	61	61	61	61	61	61	61																																																															
												A		14	14	14	14	14	14	14	14													A		19	19	19	19	19	19	19	19	19													A		61	61	61	61	61	61	61	61	61	61																																																															
85714-X24 AND 85714-X24LF												D		13	13	13	13	13	13	13	13	85714-X29 AND 85714-X29LF												D		3	3	3	3	3	3	3	3	3	85714-X34 AND 85714-X34LF												D		60	60	60	60	60	60	60	60	60	60																																																															
												C		19	19	19	19	19	19	19	19													C		3	3	3	3	3	3	3	3	3													C		60	60	60	60	60	60	60	60	60	60																																																															
												B		19	19	19	19	19	19	19	19													B		19	19	19	19	19	19	19	19	19													B		62	62	62	62	62	62	62	62	62	62																																																															
												A		13	13	13	13	13	13	13	13													A		3	3	3	3	3	3	3	3	3													A		60	60	60	60	60	60	60	60	60	60																																																															
85714-X25 AND 85714-X25LF												D		48	48	48	48	48	48	48	48	85714-X30 AND 85714-X30LF												D		59	59	59	59	59	59	59	59	59	85714-X35 AND 85714-X35LF												D		61	61	61	61	61	61	61	61	61	61																																																															
												C		48	48	48	48	48	48	48	48													C		59	59	59	59	59	59	59	59	59													C		62	62	62	62	62	62	62	62	62	62																																																															
												B		48	48	48	48	48	48	48	48													B		59	59	59	59	59	59	59	59	59													B		63	63	63	63	63	63	63	63	63	63																																																															
												A		48	48	48	48	48	48	48	48													A		59	59	59	59	59	59	59	59	59													A		63	63	63	63	63	63	63	63	63	63																																																															
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lfr												ecn no.												dr												date												linear												0.X ±0.3												COPY												title																																															
P																																																angles												0.XX ±0.13												projection												METRAL SIGNAL HEADER																																															
																																																0° ±2°																								2 MOD. 4 ROW PRESS-FIT																																																											
																																																dr												T.BRUNGARD 11/19/99												MM												product family																																															
																																																enqr												M.STRAWSER 11/19/99												scale												METRAL																																															
																																																chr												M.STRAWSER 11/19/99												1:1												size																																															
																																																appd												M.STRAWSER 02/29/00																								dwg no																																															
sheet												revision																																																												A												85714												code																																			
index												sheet																																																																																				213												sheet																							
																																																																																																												5																							
cage code												22526												4																																																																																																											

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PDM: Rev:P

STATUS:Released

Printed: Feb 10, 2006

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X41 AND 85714-X41LF	D	40	40	40	40	40	40	40	40	40	40
	C	40	40	40	40	40	40	40	40	40	40
	B	40	40	40	40	40	40	40	40	40	40
	A	41	41	41	41	41	41	41	41	41	41

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X42 AND 85714-X42LF	D	41	41	41	41	41	41	41	41	41	41
	C	25	25	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25	25	25
	A	41	41	41	41	41	41	41	41	41	41

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X43 AND 85714-X43LF	D	41	41	41	41	41	41	41	41	41	41
	C	41	41	41	41	41	41	41	41	41	41
	B	41	41	41	41	41	41	41	41	41	41
	A	41	41	41	41	41	41	41	41	41	41

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X44 AND 85714-X44LF	D	25	25	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25	25	25
	B	42	42	42	42	42	42	42	42	42	42
	A	25	25	25	25	25	25	25	25	25	25

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X45 AND 85714-X45LF	D	41	41	41	41	41	41	41	41	41	41
	C	42	42	42	42	42	42	42	42	42	42
	B	43	43	43	43	43	43	43	43	43	43
	A	43	43	43	43	43	43	43	43	43	43

2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X46 AND 85714-X46LF	D	41	41	41	41	41	41	41	41	41	41
	C	41	41	41	41	41	41	41	41	41	41
	B	43	43	43	43	43	43	43	43	43	43
	A	41	41	41	41	41	41	41	41	41	41

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X47 AND 85714-X47LF	D	42	42	42	42	42	42	42	42	42	42
	C	42	42	42	42	42	42	42	42	42	42
	B	42	42	42	42	42	42	42	42	42	42
	A	42	42	42	42	42	42	42	42	42	42

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X48 AND 85714-X48LF	D	43	43	43	43	43	43	43	43	43	43
	C	43	43	43	43	43	43	43	43	43	43
	B	43	43	43	43	43	43	43	43	43	43
	A	43	43	43	43	43	43	43	43	43	43

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X49 AND 85714-X49LF	D	11	11	11	11	11	11	11	11	11	11
	C	12	12	12	12	12	12	12	12	12	12
	B	21	21	21	21	21	21	21	21	21	21
	A	21	21	21	21	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X50 AND 85714-X50LF	D	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11
	B	21	21	21	21	21	21	21	21	21	21
	A	11	11	11	11	11	11	11	11	11	11

3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X51 AND 85714-X51LF	D	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X52 AND 85714-X52LF	D	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12
	A	12	12	12	12	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X53 AND 85714-X53LF	D	7	7	7	7	7	7	7	7	7	7
	C	8	8	8	8	8	8	8	8	8	8
	B	20	20	20	20	20	20	20	20	20	20
	A	20	20	20	20	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X54 AND 85714-X54LF	D	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7
	B	20	20	20	20	20	20	20	20	20	20
	A	7	7	7	7	7	7	7	7	7	7

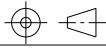
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X55 AND 85714-X55LF	D	3	3	3	3	3	3	3	3	3	3
	C	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3

4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
		1	2	3	4	5	6	7	8	9	10
85714-X56 AND 85714-X56LF	D	64	64	64	64	64	64	64	64	64	64
	C	64	64	64	64	64	64	64	64	64	64
	B	64	64	64	64	64	64	64	64	64	64
	A	64	64	64	64	64	64	64	64	64	64

A

B

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY			title	
P					0.XX ±0.13		projection			METRAL SIGNAL HEADER	
					.XXX ±.051					2 MOD. 4 ROW PRESS-FIT	
					0° ±2°					product family	
					T.BRUNGARD 11/19/99					METRAL	
				dr	M.STRAWSER 11/19/99					code	
				enr	M.STRAWSER 11/19/99						