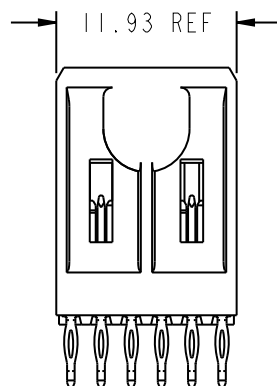
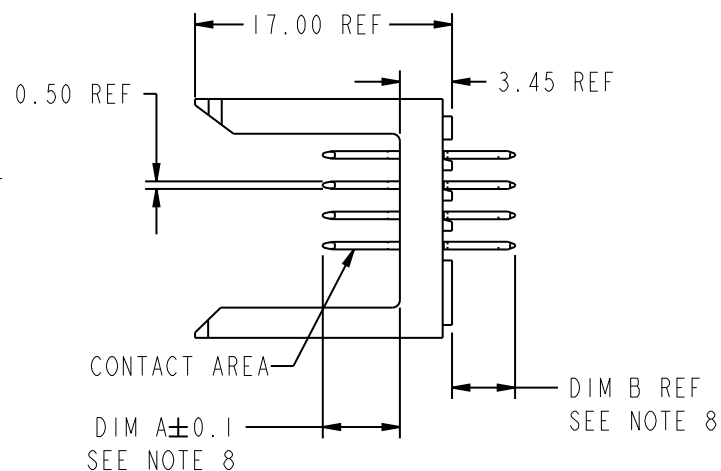
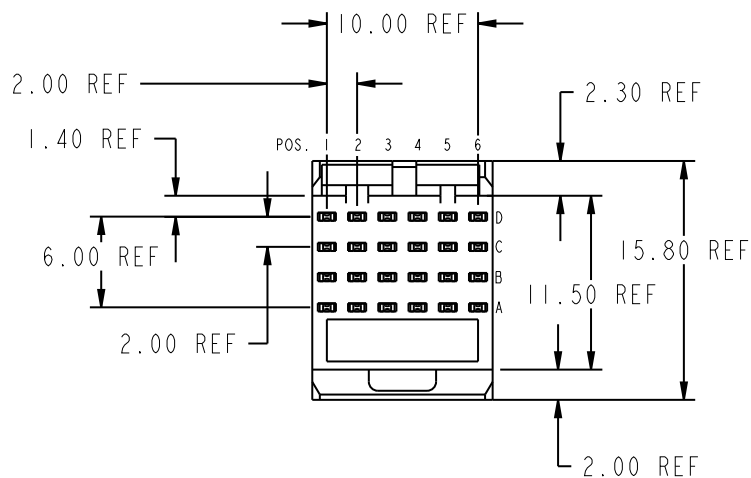


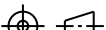


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REV E - 2006-04-10

PRODUCT NUMBER
SEE TABLE



mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY			title	
AH	V06-0569	DCH	2006-06-13		0.XX ±0.13		projection			METRAL SIGNAL HEADER	
AJ	DG09-0256	TER	2009-08-19		.XXX ±.051					I MOD, 4 ROW PRESS-FIT	
-	-	-	-	angles	0° ±2°					product family	
AD	V03-0025	JWS	02/06/03	dr	T.BRUNGARD	11/19/99	METRAL			code	
AE	V03-1321	DAI	01/15/04	enr	M.STRAWER	11/19/99	213			sheet	
AF	V04-0794	TAB	08/13/04	chr	M.STRAWER	11/19/99	scale			1 of 6	
AG	V05-0368	DPU	06/01/05	appd	M.STRAWER	02/29/00	2:1				
sheet index		revision		AJ	AJ	AJ	AJ	AJ			
		sheet		1	2	3	4	5	6		

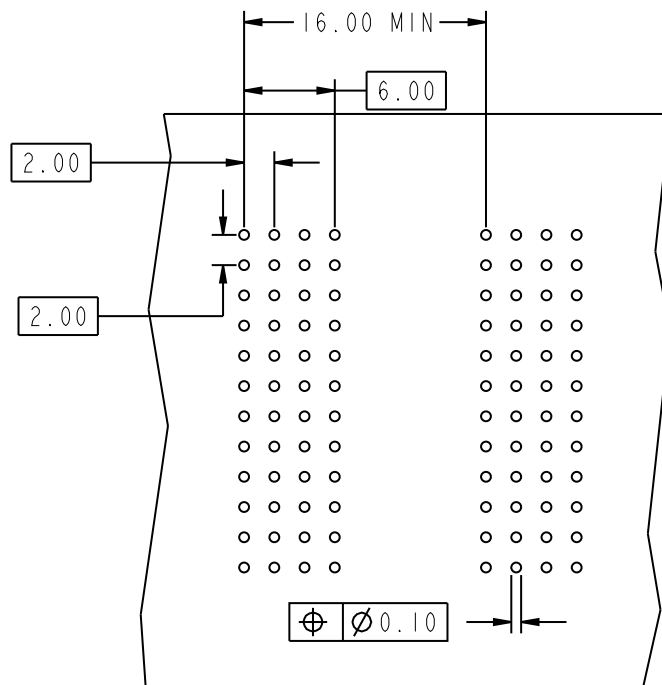
Pro/E

cage code 22526

PDM: Rev:AJ

STATUS: Released

Printed: Sep 16, 2009



REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY		
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
16	7.00	4.30
17	7.00	13.60
18	7.00	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

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
40	5.00	15.60
41	6.50	15.60
42	7.25	15.60
43	8.00	15.60
44	5.75	12.10
45	6.50	12.10
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

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ± 0.3	projection		title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT	
AJ					0.XX ± 0.13				
					.XXX $\pm .051$				
				angles	0° $\pm 2^\circ$		product family METRAL	code 213	
				dr	T.BRUNGARD 11/19/99				
				enrg	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	size A	dwg no 88921	sheet 2	
				appd	M.STRAWSE 02/29/00				
sheet index	revision sheet								



- NOTES:
- FOR DIM A, AND B SEE SHEET 2 AND UP.
 - BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
 - PIN MATERIAL
PHOSPHOR BRONZE:
 - PLATING ON PRESS-FIT AREA :SEE PRODUCT NUMBER TABLE.
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE ON SHEET3.
 - PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
 - ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT
TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING
IS REQUIRED, SUFFIX "P" WILL BE ADDED TO THE END OF
THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
 - PRODUCT SPECIFICATION: GS-12-180
APPLICATION SPECIFICATION: BUS-20-073
 - AFTER INSERTION INTO BOARD WITH QUALIFIED TOOLING.
 - THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE
EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS
AS DESCRIBED IN GS-12-008.
 - ALL THE PRODUCTS EXCEPT THOSE WITH PART NUMBERS
CONTAINING 88921-NI---OR 88921-N5---WILL WITHSTAND
EXPOSURE TO 260 DEGREES C FOR 60 SECONDS IN A
CONVECTION, INFRA-RED OR VAPOR PHASE
REFLOW OVEN. PART NUMBERS 88921-NI---AND 88921-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		SEE NOTES		tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com		
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT	
AJ					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°					
				dr	T.BRUNGARD	11/19/99			product family METRAL	code 213
				enrg	x. xxxxxx	mm/dd/yy				
				chr	M.STRAWSER	11/19/99				
				appd	M.STRAWSER	02/29/00				
sheet index	revision sheet						scale 1:1	A	size 88921	sheet 3

cage code 22526

Pro/E

PDM: Rev:AJ

STATUS:Released

Printed: Sep 16, 2009



METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X01 AND 88921-X01LF	D	-	2	-	2	-	2	
	C	-	2	-	2	-	2	
	B	-	2	-	2	-	2	
	A	-	2	-	2	-	2	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X02 AND 88921-X02LF	D	-	6	-	6	-	6	
	C	-	6	-	6	-	6	
	B	-	6	-	6	-	6	
	A	-	6	-	6	-	6	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X03 AND 88921-X03LF	D	3	3	3	3	3	3	
	C	4	4	4	4	4	4	
	B	4	4	4	4	4	4	
	A	4	4	4	4	4	4	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X04 AND 88921-X04LF	D	7	7	7	7	7	7	
	C	8	8	8	8	8	8	
	B	8	8	8	8	8	8	
	A	8	8	8	8	8	8	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X05 AND 88921-X05LF	D	13	2	2	2	2	2	
	C	13	2	2	2	2	2	
	B	13	2	2	2	2	2	
	A	13	2	2	2	2	2	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X06 AND 88921-X06LF	D	14	6	6	6	6	6	
	C	14	6	6	6	6	6	
	B	14	6	6	6	6	6	
	A	14	6	6	6	6	6	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X07 AND 88921-X07LF	D	15	10	10	10	10	10	
	C	15	10	10	10	10	10	
	B	15	10	10	10	10	10	
	A	15	10	10	10	10	10	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X08 AND 88921-X08LF	D	16	2	2	2	2	2	
	C	16	2	2	2	2	2	
	B	16	2	2	2	2	2	
	A	16	2	2	2	2	2	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X09 AND 88921-X09LF	D	17	6	6	6	6	6	
	C	17	6	6	6	6	6	
	B	17	6	6	6	6	6	
	A	17	6	6	6	6	6	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X10 AND 88921-X10LF	D	18	10	10	10	10	10	
	C	18	10	10	10	10	10	
	B	18	10	10	10	10	10	
	A	18	10	10	10	10	10	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X11 AND 88921-X11LF	D	13	16	16	16	16	13	
	C	13	16	16	16	16	13	
	B	13	16	16	16	16	13	
	A	13	16	16	16	16	13	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X12 AND 88921-X12LF	D	14	17	17	17	17	14	
	C	14	17	17	17	17	14	
	B	14	17	17	17	17	14	
	A	14	17	17	17	17	14	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X13 AND 88921-X13LF	D	15	18	18	18	18	15	
	C	15	18	18	18	18	15	
	B	15	18	18	18	18	15	
	A	15	18	18	18	18	15	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X14 AND 88921-X14LF	D	2	2	2	3	2	2	
	C	2	2	2	3	2	2	
	B	2	1	2	3	2	2	
	A	2	2	2	3	2	2	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X15 AND 88921-X15LF	D	4	4	4	4	4	2	
	C	3	3	3	3	3	3	
	B	3	3	3	3	3	3	
	A	3	3	3	3	3	3	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X16 AND 88921-X16LF	D	13	13	13	13	-	13	
	C	13	13	13	13	-	13	
	B	13	13	13	13	-	13	
	A	13	13	13	13	-	13	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X17 AND 88921-X17LF	D	25	25	25	25	25	25	
	C	25	25	25	25	25	25	
	B	25	25	25	25	25	25	
	A	25	25	25	25	25	25	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X18 AND 88921-X18LF	D	3	1	1	1	1	1	
	C	3	1	1	1	1	1	
	B	3	1	1	1	1	1	
	A	3	1	1	1	1	1	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X19 AND 88921-X19LF	D	2	2	2	2	2	2	
	C	4	2	4	2	4	2	
	B	2	4	2	4	2	4	
	A	2	2	2	2	2	2	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X20 AND 88921-X20LF	D	19	3	3	3	3	19	
	C	19	3	3	3	3	19	
	B	19	3	3	3	3	19	
	A	19	3	3	3	3	19	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X21 AND 88921-X21LF	D	4	4	4	19	19	19	
	C	4	4	4	19	19	19	
	B	4	4	4	19	19	19	
	A	4	4	4	19	19	19	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X22 AND 88921-X22LF	D	8	8	8	20	20	20	
	C	8	8	8	20	20	20	
	B	8	8	8	20	20	20	
	A	8	8	8	20	20	20	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X23 AND 88921-X23LF	D	4	1	4	1	1	1	
	C	4	1	1	1	1	1	
	B	4	1	1	1	1	1	
	A	4	1	4	1	1	1	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X24 AND 88921-X24LF	D	22	22	22	22	22	22	
	C	44	44	44	44	44	44	
	B	44	44	44	44	44	44	
	A	45	45	45	45	45	45	
METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X25 AND 88921-X25LF	D	3	3	3	3	3	-	
	C	3	3	3	3	3	-	
	B	3	3	3	3	3	-	
	A	-	-	3	3	3	-	

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	www.fcjconnect.com	
AJ					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±°			product family	code	
				dr	T.BRUNGARD					11/19/99
				engr	M.STRAWSE					11/19/99
				chr	M.STRAWSE	11/19/99	size	dwg no	sheet	
				appd	M.STRAWSE	02/29/00				
sheet index	revision	sheet								



1		2		3		4																																		
METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I														
88921-X26 AND 88921-X26LF	D	1	9	-	4	-	3	-	88921-X31 AND 88921-X31LF	D	3	3	3	3	3	1	88921-X36 AND 88921-X36LF	D	-	4	-	4	-	4	88921-X41 AND 88921-X41LF	D	-	62	-	62	-	62	88921-X46 AND 88921-X46LF	D	-	8	-	8	-	8
	C	1	9	-	4	-	-	19		C	3	3	3	3	3	19		C	4	-	4	-	4	-		C	62	-	62	-	62	-		C	8	-	8	-	8	
	B	-	19	-	4	-	19	B		3	3	3	3	3	3	B		-	4	-	4	-	4	B		-	62	-	62	-	62	B		-	8	-	8	-	8	
	A	-	19	-	4	-	19	A		3	3	3	3	19	19	A		4	-	4	-	4	-	A		62	-	62	-	62	-	A		8	-	8	-	8		
88921-X27 AND 88921-X27LF	D	2	2	2	3	4	19	88921-X32 AND 88921-X32LF	D	6	6	6	6	6	20	88921-X37 AND 88921-X37LF	D	-	19	-	19	-	19	88921-X42 AND 88921-X42LF	D	-	63	-	63	-	63	88921-X47 AND 88921-X47LF	D	-	20	-	20	-	20	
	C	2	2	2	3	4	19		C	6	6	6	6	6	20		C	19	-	19	-	19	-		C	63	-	63	-	63	-		C	20	-	20	-	20		
	B	2	2	2	3	4	19		B	6	6	6	6	6	20		B	-	19	-	19	-	19		B	-	63	-	63	-	63		B	-	20	-	20	-	20	
	A	2	2	2	3	4	19		A	6	6	6	6	6	20		A	19	-	19	-	19	-		A	63	-	63	-	63	-		A	20	-	20	-	20		
88921-X28 AND 88921-X28LF	D	2	2	2	2	2	19	88921-X33 AND 88921-X33LF	D	3	3	3	3	3	1	88921-X38 AND 88921-X38LF	D	-	59	-	59	-	59	88921-X43 AND 88921-X43LF	D	-	5	-	5	-	5	88921-X48 AND 88921-X48LF	D	-	40	-	40	-	40	
	C	2	2	2	2	2	19		C	3	3	3	3	3	3		C	59	-	59	-	59	-		C	5	-	5	-	5	-		C	40	-	40	-	40		
	B	2	2	2	2	2	19		B	3	3	3	3	3	3		B	-	59	-	59	-	59		B	-	5	-	5	-	5		B	-	40	-	40	-	40	
	A	2	2	2	2	2	19		A	19	19	19	19	19	19		A	59	-	59	-	59	-		A	5	-	5	-	5	-		A	40	-	40	-	40		
88921-X29 AND 88921-X29LF	D	3	3	3	3	3	1	88921-X34 AND 88921-X34LF	D	6	6	6	6	6	6	88921-X39 AND 88921-X39LF	D	-	60	-	60	-	60	88921-X44 AND 88921-X44LF	D	-	6	-	6	-	6	88921-X49 AND 88921-X49LF	D	-	25	-	25	-	25	
	C	3	3	3	3	3	19		C	6	6	6	6	6	6		C	60	-	60	-	60	-		C	6	-	6	-	6	-		C	25	-	25	-	25		
	B	3	3	3	3	3	3		B	6	6	6	6	6	6		B	-	60	-	60	-	60		B	-	6	-	6	-	6		B	-	25	-	25	-	25	
	A	3	3	3	3	19	19		A	7	7	7	6	6	5		A	60	-	60	-	60	-		A	6	-	6	-	6	-		A	25	-	25	-	25		
88921-X30 AND 88921-X30LF	D	3	3	3	19	3	3	88921-X35 AND 88921-X35LF	D	-	3	-	3	-	3	88921-X40 AND 88921-X40LF	D	-	61	-	61	-	61	88921-X45 AND 88921-X45LF	D	-	7	-	7	-	7	88921-X50 AND 88921-X50LF	D	-	41	-	41	-	41	
	C	3	3	3	3	3	3		C	3	-	3	-	3	-		C	61	-	61	-	61	-		C	7	-	7	-	7	-		C	41	-	41	-	41		
	B	3	3	3	3	3	3		B	-	3	-	3	-	3		B	-	61	-	61	-	61		B	-	7	-	7	-	7		B	-	41	-	41	-	41	
	A	3	3	3	3	3	3		A	3	-	3	-	3	-		A	61	-	61	-	61	-		A	7	-	7	-	7	-		A	41	-	41	-	41		
mat'l code																						tolerances unless otherwise specified				CUSTOMER		FCJ												
lfr		ecn no.		dr		date		linear		0. x ±0.3		COPY		projection		title																								
A J										0. xx ±0.13				⊕		METRAL SIGNAL HEADER																								
										. xxx ±.051				⊕		1 MOD, 4 ROW PRESS-FIT																								
								angles		0° ±2°				MM																										
								dr		T.BRUNGARD 11/19/99						product family																								
								engr		M.STRAWSER 11/19/99						size		METRAL																						
								chr		M.STRAWSER 11/19/99						scale		code																						
								appd		M.STRAWSER 02/29/00						A		213																						
sheet index		revision																sheet																						
																		5																						

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCJ	
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY		www.fcjconnect.com		
AJ					0.XX ±0.13		projection		title		
					.XXX ±.051				METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT		
					0° ±2°				product family		
				dr	T.BRUNGARD	11/19/99	MM		METRAL		code
				enrg	M.STRAWSE	11/19/99	1:1		size		213
				chr	M.STRAWSE	11/19/99			dwg no		sheet
				appd	M.STRAWSE	02/29/00			A		5
sheet index		revision sheet									



METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X51 AND 88921-X51LF	D	-	42	-	42	-	42
	C	42	-	42	-	42	-
	B	-	42	-	42	-	42
	A	42	-	42	-	42	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X56 AND 88921-X56LF	D	-	12	-	12	-	12
	C	12	-	12	-	12	-
	B	-	12	-	12	-	12
	A	12	-	12	-	12	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X61 AND 88921-X61LF	D	7	6	6	5	6	6
	C	7	6	5	5	7	6
	B	7	6	6	6	6	6
	A	7	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X52 AND 88921-X52LF	D	-	43	-	43	-	43
	C	43	-	43	-	43	-
	B	-	43	-	43	-	43
	A	43	-	43	-	43	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X57 AND 88921-X57LF	D	-	21	-	21	-	21
	C	21	-	21	-	21	-
	B	-	21	-	21	-	21
	A	21	-	21	-	21	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X62 AND 88921-X62LF	D	19	-	4	-	3	19
	C	19	-	4	-	-	19
	B	-	19	-	4	-	19
	A	-	19	-	4	-	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X53 AND 88921-X53LF	D	-	9	-	9	-	9
	C	9	-	9	-	9	-
	B	-	9	-	9	-	9
	A	9	-	9	-	9	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X58 AND 88921-X58LF	D	20	6	7	7	7	7
	C	20	7	7	7	7	7
	B	20	7	7	7	7	7
	A	20	7	5	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X54 AND 88921-X54LF	D	-	10	-	10	-	10
	C	10	-	10	-	10	-
	B	-	10	-	10	-	10
	A	10	-	10	-	10	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X59 AND 88921-X59LF	D	1	1	2	1	1	1
	C	1	1	2	1	1	1
	B	1	1	2	1	1	1
	A	1	1	2	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X55 AND 88921-X55LF	D	-	11	-	11	-	11
	C	11	-	11	-	11	-
	B	-	11	-	11	-	11
	A	11	-	11	-	11	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88921-X60 AND 88921-X60LF	D	2	2	2	3	2	3
	C	2	2	2	3	2	3
	B	2	2	2	3	2	3
	A	2	2	2	3	2	3

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com		
lfr	ecn no.	dr	date	linear	0.X ± 0.3	COPY				
AJ					0.XX ± 0.13	projection				
					.XXX $\pm .051$					
				angles	0° $\pm 2^\circ$					
				dr	T.BRUNGARD	11/19/99			product family METRAL code 213 size dwg no 88921 sheet 6	
				engr	M.STRAWSE	11/19/99				
				chr	M.STRAWSE	11/19/99				
				appd	M.STRAWSE	02/29/00	scale 1:1			
sheet index	revision sheet									