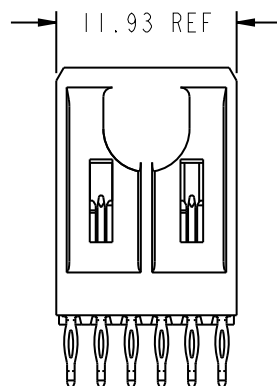
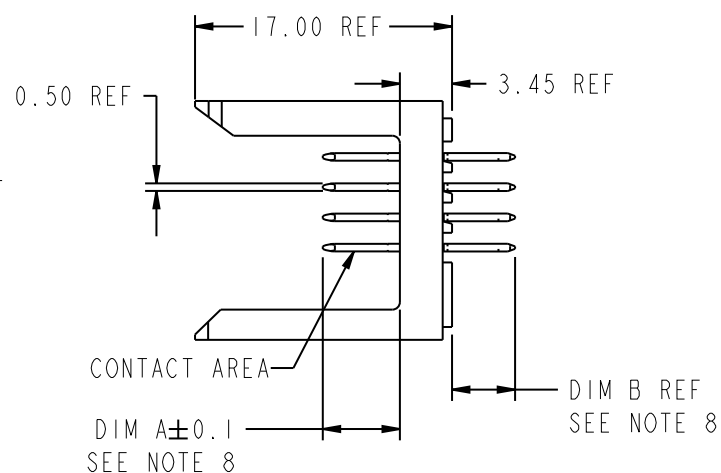
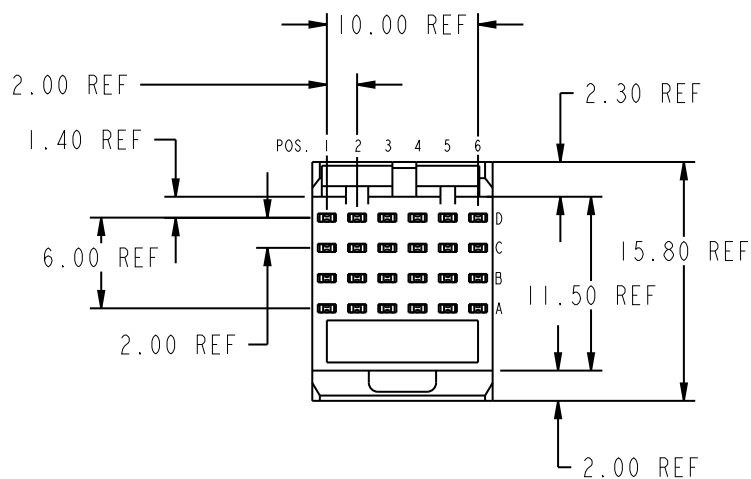
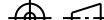
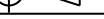


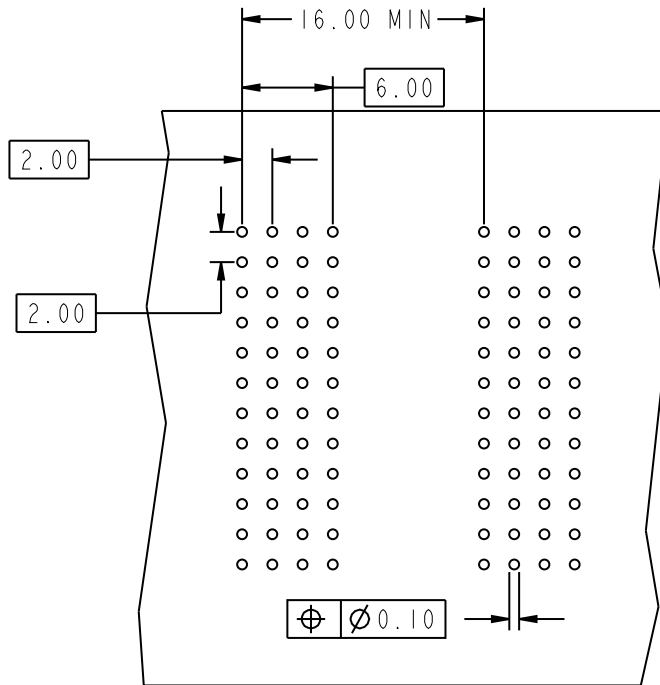


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PRODUCT NUMBER
SEE TABLE



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°						
AD	V03-0025	JWS	02/06/03	dr	T.BRUNGARD 11/19/99				product family		code
AE	V03-1321	DAI	01/15/04	engr	M.STRAWER 11/19/99				size	METRAL	
AF	V04-0794	TAB	08/13/04	chr	M.STRAWER 11/19/99		scale		dwg no		sheet
AG	V05-0368	DPU	06/01/05	appd	M.STRAWER 02/29/00		2:1		A 88921		1 of 6
sheet index		revision		AJ	AJ	AJ	AJ	AJ	AJ		
		sheet		1	2	3	4	5	6		



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		www.fciconnect.com				
lfr	ecn no.	dr	date	linear	0.X ± 0.3			COPY			title			
AJ					0.XX ± 0.13			projection			METRAL SIGNAL HEADER			
					.XXX ± 0.051						1 MOD, 4 ROW PRESS-FIT			
					0° $\pm 2^\circ$									
				angles										
				dr	T.BRUNGARD	11/19/99			MM		product family		METRAL	code
				enr	M.STRAWSE	11/19/99			2:1		size		dwg no	213
				chr	M.STRAWSE	11/19/99					A		88921	sheet
				appd	M.STRAWSE	02/29/00							2	
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		www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X $\pm$ 0.3	COPY			title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT
AJ					0.XX $\pm$ 0.13	projection			
					.XXX $\pm$.051				
				angles	0° $\pm$ 2°				
				dr	T.BRUNGARD	11/19/99	product family METRAL		code
				enrg	x. xxxxxx	mm/dd/yy	size 88921		213
				chr	M.STRAWSER	11/19/99	scale 1:1		sheet
				appd	M.STRAWSER	02/29/00	A		3
sheet index	revision sheet								

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		COPY	
A J								projection	
								0. X ±0.3	
								0. XX ±0.13	
								. xxx ±.051	
								0° ±2°	
								dr T.BRUNGARD 11/19/99	
								enrg M.STRAWSER 11/19/99	
								chr M.STRAWSER 11/19/99	
								appd M.STRAWSER 02/29/00	
sheet index		revision sheet						scale 1:1	
								product family METRAL	
								size dwg no 88921	
								code 213	
								sheet 4	

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



METRAL P/N		ROW	CONTACT CODE MOD. I					
88921-X26 AND 88921-X26LF	D	19	-	4	-	3	-	
	C	19	-	4	-	-	19	
	B	-	19	-	4	-	19	
	A	-	19	-	4	-	19	
88921-X31 AND 88921-X31LF	D	3	3	3	3	3	1	
	C	3	3	3	3	3	19	
	B	3	3	3	3	3	3	
	A	3	3	3	3	19	19	
88921-X36 AND 88921-X36LF	D	-	4	-	4	-	4	
	C	4	-	4	-	4	-	
	B	-	4	-	4	-	4	
	A	4	-	4	-	4	-	
88921-X41 AND 88921-X41LF	D	-	62	-	62	-	62	
	C	62	-	62	-	62	-	
	B	-	62	-	62	-	62	
	A	62	-	62	-	62	-	
88921-X46 AND 88921-X46LF	D	-	8	-	8	-	8	
	C	8	-	8	-	8	-	
	B	-	8	-	8	-	8	
	A	8	-	8	-	8	-	
88921-X27 AND 88921-X27LF	D	2	2	2	3	4	19	
	C	2	2	2	3	4	19	
	B	2	2	2	3	4	19	
	A	2	2	2	3	4	19	
88921-X32 AND 88921-X32LF	D	6	6	6	6	6	20	
	C	6	6	6	6	6	20	
	B	6	6	6	6	6	20	
	A	6	6	6	6	6	20	
88921-X37 AND 88921-X37LF	D	-	19	-	19	-	19	
	C	19	-	19	-	19	-	
	B	-	19	-	19	-	19	
	A	19	-	19	-	19	-	
88921-X42 AND 88921-X42LF	D	-	63	-	63	-	63	
	C	63	-	63	-	63	-	
	B	-	63	-	63	-	63	
	A	63	-	63	-	63	-	
88921-X47 AND 88921-X47LF	D	-	20	-	20	-	20	
	C	20	-	20	-	20	-	
	B	-	20	-	20	-	20	
	A	20	-	20	-	20	-	
88921-X28 AND 88921-X28LF	D	2	2	2	2	2	19	
	C	2	2	2	2	2	19	
	B	2	2	2	2	2	19	
	A	2	2	2	2	2	19	
88921-X33 AND 88921-X33LF	D	3	3	3	3	3	1	
	C	3	3	3	3	3	3	
	B	3	3	3	3	3	3	
	A	19	19	19	19	19	19	
88921-X38 AND 88921-X38LF	D	-	59	-	59	-	59	
	C	59	-	59	-	59	-	
	B	-	59	-	59	-	59	
	A	59	-	59	-	59	-	
88921-X43 AND 88921-X43LF	D	-	5	-	5	-	5	
	C	5	-	5	-	5	-	
	B	-	5	-	5	-	5	
	A	5	-	5	-	5	-	
88921-X48 AND 88921-X48LF	D	-	40	-	40	-	40	
	C	40	-	40	-	40	-	
	B	-	40	-	40	-	40	
	A	40	-	40	-	40	-	
88921-X29 AND 88921-X29LF	D	3	3	3	3	3	1	
	C	3	3	3	3	3	19	
	B	3	3	3	3	3	3	
	A	3	3	3	3	19	19	
88921-X34 AND 88921-X34LF	D	6	6	6	6	6	6	
	C	6	6	6	6	6	6	
	B	6	6	6	6	6	6	
	A	7	7	7	6	6	5	
88921-X39 AND 88921-X39LF	D	-	60	-	60	-	60	
	C	60	-	60	-	60	-	
	B	-	60	-	60	-	60	
	A	60	-	60	-	60	-	
88921-X44 AND 88921-X44LF	D	-	6	-	6	-	6	
	C	6	-	6	-	6	-	
	B	-	6	-	6	-	6	
	A	6	-	6	-	6	-	
88921-X49 AND 88921-X49LF	D	-	25	-	25	-	25	
	C	25	-	25	-	25	-	
	B	-	25	-	25	-	25	
	A	25	-	25	-	25	-	
88921-X30 AND 88921-X30LF	D	3	3	3	19	3	3	
	C	3	3	3	3	3	3	
	B	3	3	3	3	3	3	
	A	3	3	3	3	3	3	
88921-X35 AND 88921-X35LF	D	-	3	-	3	-	3	
	C	3	-	3	-	3	-	
	B	-	3	-	3	-	3	
	A	3	-	3	-	3	-	
88921-X40 AND 88921-X40LF	D	-	61	-	61	-	61	
	C	61	-	61	-	61	-	
	B	-	61	-	61	-	61	
	A	61	-	61	-	61	-	
88921-X45 AND 88921-X45LF	D	-	7	-	7	-	7	
	C	7	-	7	-	7	-	
	B	-	7	-	7	-	7	
	A	7	-	7	-	7	-	
88921-X50 AND 88921-X50LF	D	-	41	-	41	-	41	
	C	41	-	41	-	41	-	
	B	-	41	-	41	-	41	
	A	41	-	41	-	41	-	

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY	www.fcjconnect.com		
AJ				angles	0.XX ±0.13	projection	title		
					.XXX ±.051		METRAL SIGNAL HEADER		
					0° ±2°		1 MOD, 4 ROW PRESS-FIT		
		dr	T.BRUNGARD	11/19/99		MM	product family		code
		enrg	M.STRAWER	11/19/99			METRAL		213
		chr	M.STRAWER	11/19/99			size		sheet
		appd	M.STRAWER	02/29/00			dwg no		5
sheet index	revision sheet					scale	A		
						1:1	88921		
							cage code		
							22526		



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		title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT		
AJ					0.XX ± 0.13	projection				
					.XXX $\pm .051$					
				angles	0° $\pm 2^\circ$					
				dr	T.BRUNGARD	11/19/99	MM		product family METRAL	
				engr	M.STRAWSE	11/19/99	A		code 213	
				chr	M.STRAWSE	11/19/99	scale 1:1		sheet 6	
				appd	M.STRAWSE	02/29/00				
sheet index	revision	sheet								