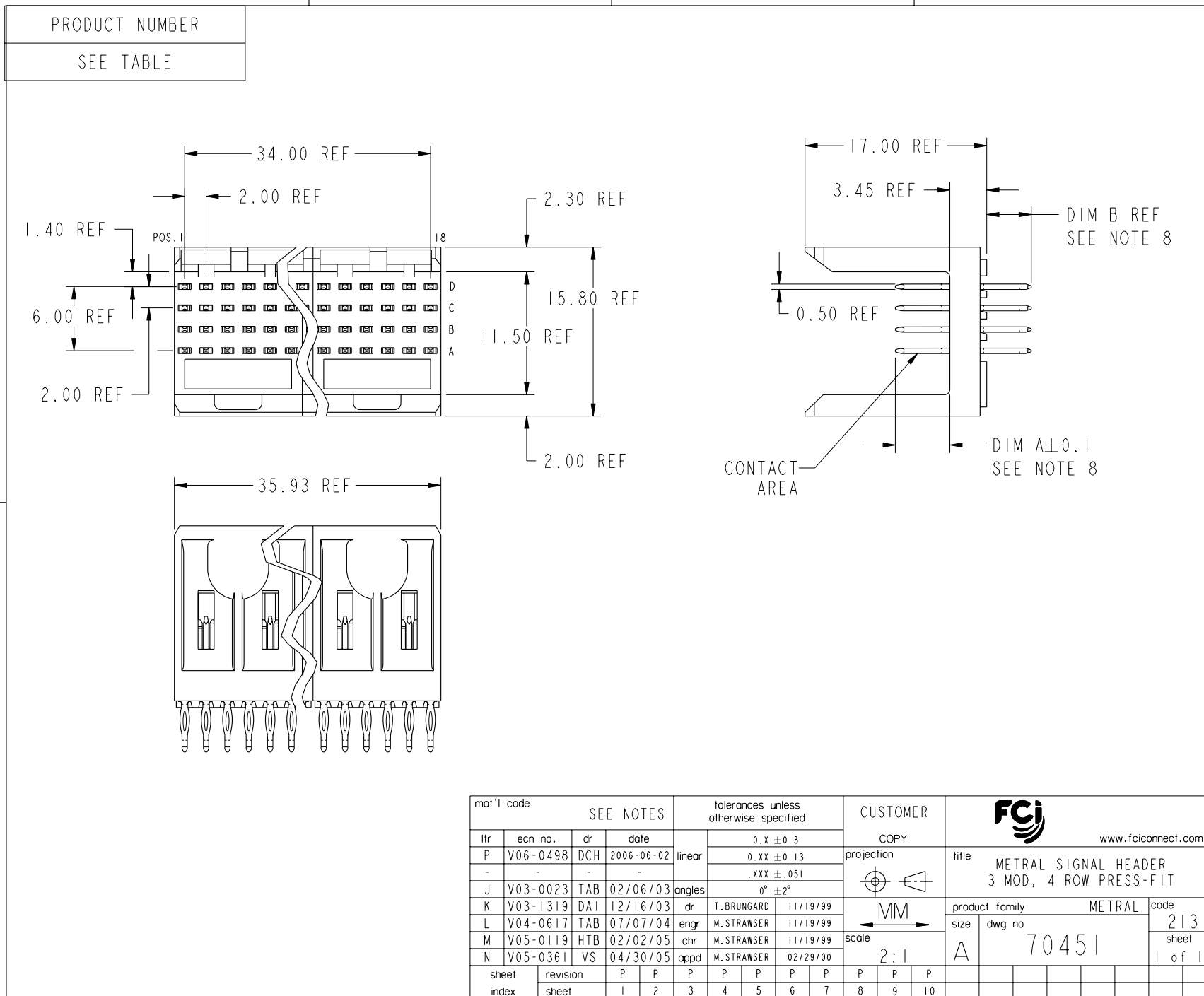
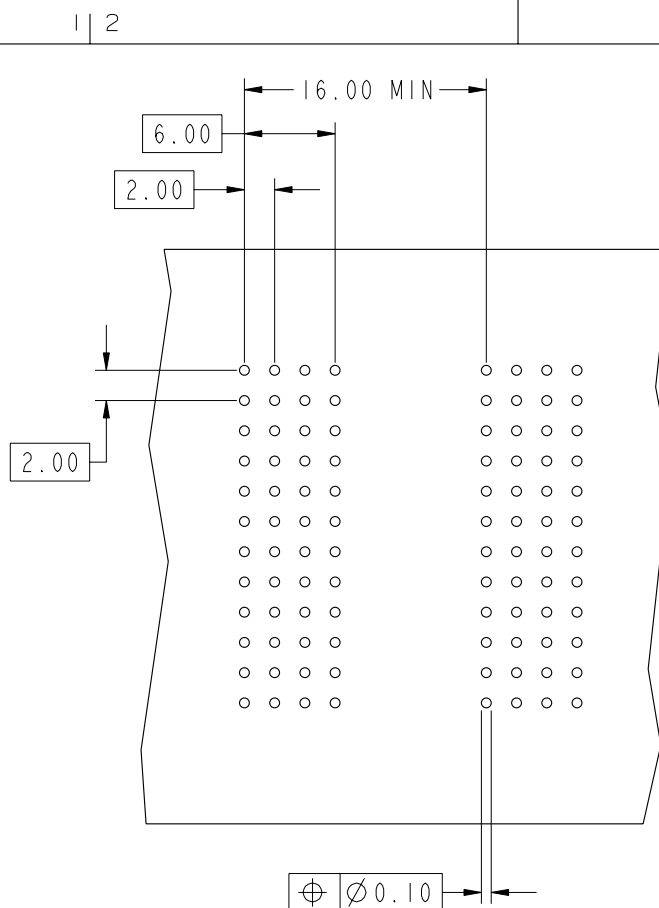






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REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

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

mat'l code				tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0. X ±0.3		projection 	title METRAL SIGNAL HEADER 3 MOD, 4 ROW PRESS-FIT			
P					0. XX ±0.13						
					. XXX ±.051						
				angles	0° ±2°		 scale 1:1	product family		METRAL	code
				dr	T.BRUNGARD	11/19/99		size	dwg no	70451	213 sheet 2
				engr	M.STRAWSE	11/19/99					
				chr	M.STRAWSE	11/19/99					
				appd	M.STRAWSE	02/29/00					
sheet index		revision sheet									

cage code 22526

Pro/E

PDM: Rev:P

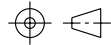
STATUS: Released Printed: May 16, 2009



PRODUCT NUMBER	DESCRIPTION	PLATING IN PRESS FIT TAIL AREA	PERFORMANCE LEVEL OF PLATING IN CONTACT AREA
70451-NIYYY	STANDARD	TIN-LEAD	TELCORDIA CO (NXT)
70451-N5YYY	STANDARD	TIN-LEAD	TECORDIA UE (NXT)
70451-1YYY	STANDARD	TIN-LEAD	TELCORDIA CO
70451-2YYY	STANDARD	TIN-LEAD	TELECOM CLASS
70451-3YYY	STANDARD	TIN-LEAD	IEC CLASS I
70451-5YYY	STANDARD	TIN-LEAD	TELCORDIA UE
70451-9YYY	STANDARD	TIN-LEAD	TELCORDIA CO
70451-NIYYYYLF	LEAD FREE	TIN	TELCORDIA CO (NXT), IEC CLASS I, SEE NOTES 9 AND 10
70451-N5YYYYLF	LEAD FREE	TIN	TECORDIA UE (NXT) SEE NOTES 9 AND 10
70451-1YYYYLF	LEAD FREE	TIN	TELCORDIA CO, IEC CLASS I, SEE NOTES 9 AND 10
70451-2YYYYLF	LEAD FREE	TIN	TELECOM CLASS, SEE NOTES 9 AND 10
70451-5YYYYLF	LEAD FREE	TIN	TELCORDIA UE, SEE NOTES 9 AND 10

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-XXXXP OR XXXXX-XXXXPLF
- PRODCUT SPECIFICATION:
GS-12-180
APPLICATION SPECIFICATION:
BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- THE PRODUCTS WHERE THE PART NUMBERS ENDS IN
LF MEET THE EUROPEAN UNION DIRECTIVE AND OTHER
COUNTRY REGULATIONS AS DESCRIBED IN GS-12-008.
- ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS
CONTAINING 70451-NI--- OR 70451-N5--- WILL WITHSTAND
EXPOSURE TO 260 DEGREES C FOR 60 SECONDS IN A
CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
PART NUMBERS 70451-NI--- AND 70451-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	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		title METRAL SIGNAL HEADER 3 MOD, 4 ROW PRESS-FIT	
P					0.XX ±0.13	projection			
					.XXX ±.051				
				angles	0° ±2°			product family METRAL code 213 size dwg no 70451 sheet 3	
				dr	T.BRUNGARD 11/19/99				
				enrg	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	scale 1:1		A	
				appd	M.STRAWSE 02/29/00				
sheet index	revision sheet								



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X010 AND 70451-X010LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3						
		I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X011 AND 70451-X011LF	D	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	C	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	B	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	A	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X012 AND 70451-X012LF	D	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
	C	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
	B	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X013 AND 70451-X013LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X014 AND 70451-X014LF	D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X015 AND 70451-X015LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X016 AND 70451-X016LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X017 AND 70451-X017LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X018 AND 70451-X018LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X019 AND 70451-X019LF	D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X020 AND 70451-X020LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X021 AND 70451-X021LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X022 AND 70451-X022LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15</



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X025 AND 70451-X025LF	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X026 AND 70451-X026LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X027 AND 70451-X027LF	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X028 AND 70451-X028LF	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X029 AND 70451-X029LF	D	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	A	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X030 AND 70451-X030LF	D	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X031 AND 70451-X031LF	D	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	A	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X032 AND 70451-X032LF	D	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X033 AND 70451-X033LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
	B	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X034 AND 70451-X034LF	D	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	A	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X035 AND 70451-X035LF	D	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X036 AND 70451-X036LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X037 AND 70451-X037LF	D	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X040 AND 70451-X040LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X041 AND 70451-X041LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3						
		I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X042 AND 70451-X042LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X043 AND 70451-X043LF	D	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X044 AND 70451-X044LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X045 AND 70451-X045LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X046 AND 70451-X046LF	D	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X047 AND 70451-X047LF	D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	A	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X048 AND 70451-X048LF	D	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	C	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	B	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	A	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X049 AND 70451-X049LF	D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X050 AND 70451-X050LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X051 AND 70451-X051LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X052 AND 70451-X052LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X061 AND 70451-X061LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

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METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1
70451-X067 AND 70451-X067LF	D	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	B	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	A	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X058 AND 70451-X058LF	D	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	C	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	B	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	A	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X063 AND 70451-X063LF	D	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1
70451-X069 AND 70451-X069LF	D	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

mat'l code				tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com		
lfr	ecn no.	dr	date	linear	0.X ± 0.3	COPY			title METRAL SIGNAL HEADER 3 MOD, 4 ROW PRESS-FIT			
P					0.XX ± 0.13	projection						
					.XXX ± .051							
				angles	0° ± 2°				product family		METRAL	code
		dr	T.BRUNGARD	11/19/99	size		dwg no		70451	213		
		enr	M.STRAWSER	11/19/99	scale		A				sheet	
		chr	M.STRAWSER	11/19/99	1:1						7	
		appd	M.STRAWSER	02/29/00								
sheet index		revision sheet										

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METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
70451-X081 AND 70451-X081LF	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	

[illegible]

A

[illegible]

A

[illegible]

1	2
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4



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X085 AND 70451-X085LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X086 AND 70451-X086LF	D	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X087 AND 70451-X087LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X088 AND 70451-X088LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X089 AND 70451-X089LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	B	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X090 AND 70451-X090LF	D	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X091 AND 70451-X091LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X092 AND 70451-X092LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	A	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X093 AND 70451-X093LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X094 AND 70451-X094LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X095 AND 70451-X095LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

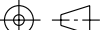
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X096 AND 70451-X096LF	D	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
	C	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	A	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
70451-X097 AND 70451-X097LF	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	B	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
	A	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
70451-X300 AND 70451-X300LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com						
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY			title METRAL SIGNAL HEADER 3 MOD, 4 ROW PRESS-FIT						
P					0.XX ±0.13		projection									
					.XXX ±.051											
				angles	0° ±2°				product family METRAL							
				dr	T.BRUNGARD	11/19/99	MM scale 1:1						size	dwg no		code
				enrg	M.STRAWSER	11/19/99							213			
				chr	M.STRAWSER	11/19/99			sheet							
				appd	M.STRAWSER	02/29/00			A	70451		10				
sheet index	revision sheet															

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