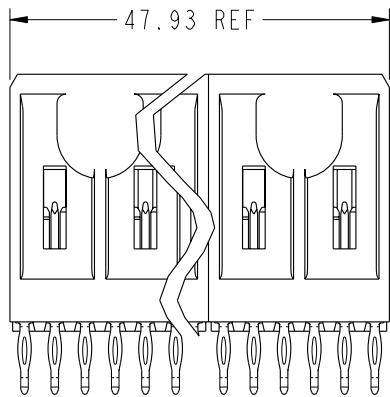
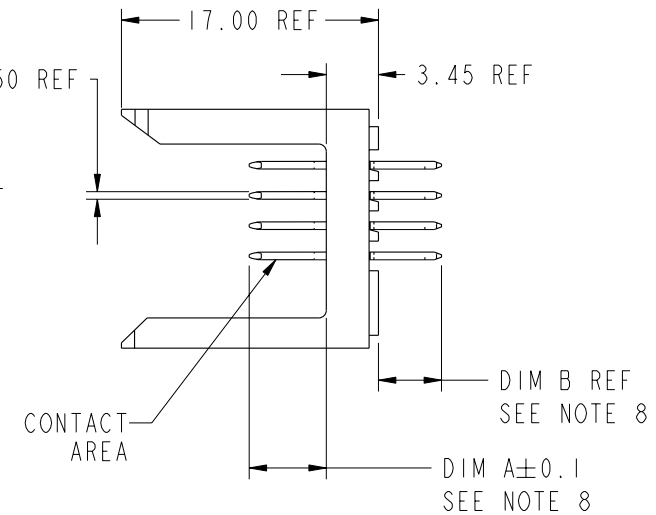
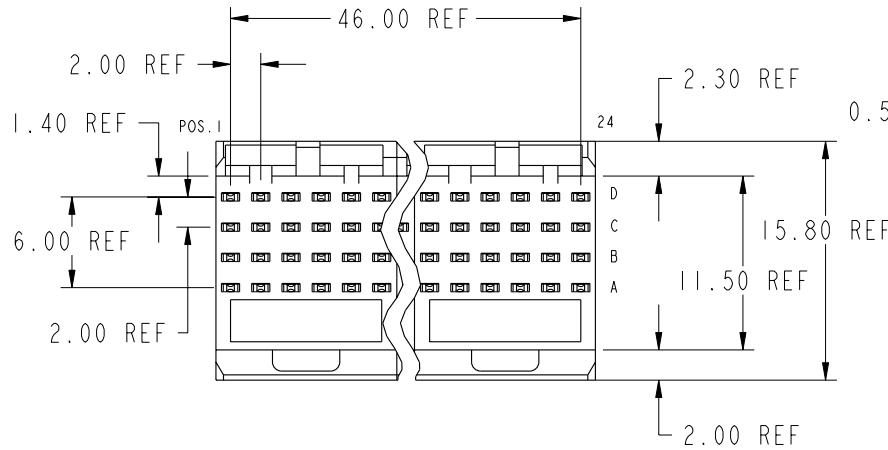


PRODUCT NUMBER
SEE TABLE

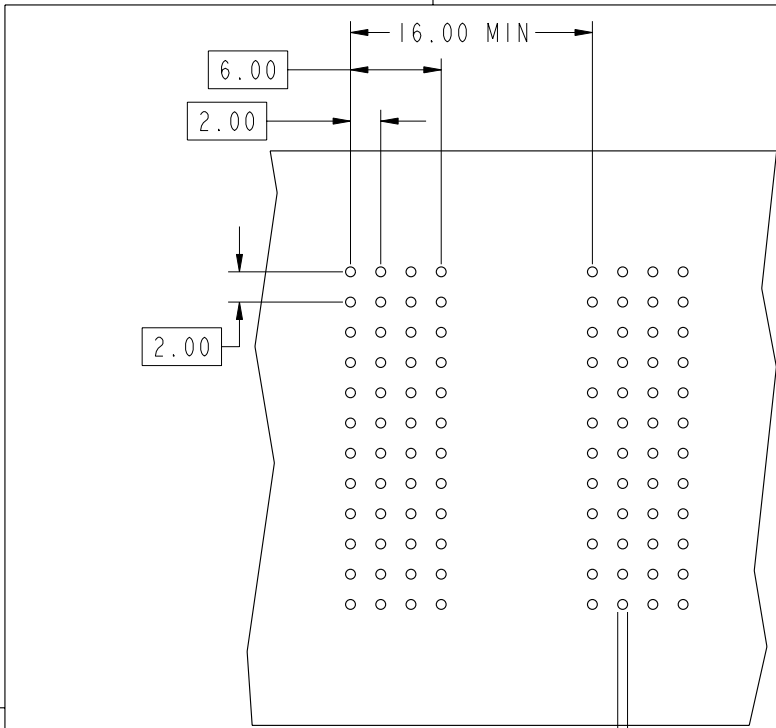


mat'l code				SEE NOTES				tolerances unless otherwise specified				CUSTOMER			FCj		www.fciconnect.com		
ltr	ecm no.	dr	date	linear	0.X ±0.3				COPY			projection		title METRAL SIGNAL HEADER 4 MOD, 4 ROW PRESS-FIT		product family METRAL		code 213	
BX	V06-0498	DCH	2006-06-02		0.XX ±0.13				MM										
-	-	-	-		.XXX ±.051				scale 2:1										
				angles	0° ±2°				A			size 70299		sheet 1 of 13					
BS	V03-0023	TAB	02/06/03	dr	T.BRUNGARD	11/19/99	MM			A		70299		1 of 13					
BT	V03-1319	DAI	12/16/03	enr	M.STRAWSER	11/19/99	MM			A		70299		1 of 13					
BU	V04-0617	TAB	07/07/04	chr	M.STRAWSER	11/19/99	MM			A		70299		1 of 13					
BV	V04-1217	HTB	07/07/04	appd	M.STRAWSER	02/29/00	MM			A		70299		1 of 13					
BW	V05-0360	VS	04/228/05																
sheet index	revision sheet	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX	BX		
		1	2	3	4	5	6	7	8	9	10	11	12	13					

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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
11	6.50	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00
22	5.00	12.10
45	6.50	12.10

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


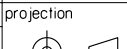

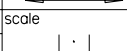
cage code 22526

Pro/E

PRODUCT NUMBER	DESCRIPTION	PLATING IN PRESS FIT TAIL AREA	PERFORMANCE LEVEL OF PLATING IN CONTACT AREA
70443-AYY	STANDARD	TIN-LEAD	TELCORDIA CO (SEE NOTE 9)
70443-NIYY	STANDARD	TIN-LEAD	TELCORDIA CO (NXT)
70443-N5YY	STANDARD	TIN-LEAD	TECORDIA UE (NXT)
70443-1YY	STANDARD	TIN-LEAD	TELCORDIA CO
70443-2YY	STANDARD	TIN-LEAD	TELECOM CLASS
70443-3YY	STANDARD	TIN-LEAD	IEC CLASS I
70443-5YY	STANDARD	TIN-LEAD	TELCORDIA UE
70443-9YY	STANDARD	TIN-LEAD	TELCORDIA CO
70443-NIYYLF	LEAD FREE	TIN	TELCORDIA CO (NXT), IEC CLASS I, SEE NOTES 9 AND 10
70443-N5YYLF	LEAD FREE	TIN	TECORDIA UE (NXT) SEE NOTES 9 AND 10
70443-1YYLF	LEAD FREE	TIN	TELCORDIA CO, IEC CLASS I, SEE NOTES 9 AND 10
70443-2YYLF	LEAD FREE	TIN	TELECOM CLASS, SEE NOTES 9 AND 10
70443-5YYLF	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 TAIL 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, A 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 CIRCUIT BOARD WITH QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE)
- 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 70299-N1--- OR 70299-N5--- WILL WITHSTAND EXPOSURE TO 260 DEGREES C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN PART NUMBERS 70299-N1--- AND 70299-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 4 MOD, 4 ROW PRESS-FIT	
BX					0.XX ±0.13	projection			
					.XXX ±.051	 product family METRAL code 213			
				angles	0° ±2°	 size A dwg no 70299 sheet 3			
				dr	T.BRUNGARD 11/19/99	MM			
				engr	M.STRAWSER 11/19/99	scale 1:1			
				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					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X01 AND 70299-X01LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	C	2	2	2	2	2	2	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	2	2	2	2	2	2
	A	4	4	4	4	4	4	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					MOD. 4								
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70299-X06 AND 70299-X06LF	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X02 AND 70299-X02LF	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X07 AND 70299-X07LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20
	B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X03 AND 70299-X03LF	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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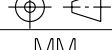

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70299-X08 AND 70299-X08LF	D	7	7	5	5	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5	5	7
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	B	7	7	5	5	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5	5	7
	A	7	7	5	5	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5	5	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X04 AND 70299-X04LF	D	7	5	5	5	5	5	5	5	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	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	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	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X09 AND 70299-X09LF	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X05 AND 70299-X05LF	D	7	5	5	5	5	5	5	5	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	7	7	7	7	7	7
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
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70299-X10 AND 70299-X10LF	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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mat'l code				--	tolerances unless otherwise specified				CUSTOMER				 www.fciconnect.com												
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY				title												
BX					0.XX ±0.13				projection				METRAL SIGNAL HEADER												
					.XXX ±0.051								4 MOD, 4 ROW PRESS-FIT												
					0° ±2°								product family METRAL code												
				dr	T.BRUNGARD	11/19/99	MM				size														
				engr	M.STRAWSER	11/19/99	← MM →				dwg no														
				chr	M.STRAWSER	11/19/99	scale				A														
				appd	M.STRAWSER	02/29/00	1:1				70299														
sheet index	revision sheet																								

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
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70299-X11 AND 70299-X11LF	D	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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	B	2	2	2	2	2	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	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
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70299-X16 AND 70299-X16LF	D	6	5	5	5	5	5	5	5	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	6	6	6	6	6
	B	6	6	6	6	6	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	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X12 AND 70299-X12LF	D	3	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	2	2	2	2
	C	3	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	3	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
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70299-X17 AND 70299-X17LF	D	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
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70299-X13 AND 70299-X13LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5
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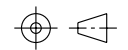

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
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70299-X18 AND 70299-X18LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6
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	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X14 AND 70299-X14LF	D	6	5	5	5	5	5	5	5	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	6	6	6	6	6
	B	6	6	6	6	6	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	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X19 AND 70299-X19LF	D	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	3
	C	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	3
	B	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	3
	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X15 AND 70299-X15LF	D	7	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	6	6	6	6	6
	C	7	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	6	6	6	6	6	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X20 AND 70299-X20LF	D	4	2	4	2	2	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	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2

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			
BX					0.XX ±0.13		projection				4 MOD, 4 ROW PRESS-FIT					
					.XXX ±0.051						product family		METRAL		code	
					0° ±2°						size		dwg no		213	
				dr	T.BRUNGARD	11/19/99	scale		A		70299		sheet			
				enrg	M.STRAWSER	11/19/99							5			
				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					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X21 AND 70299-X21LF	D	4	2	4	2	2	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	4	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	2	2	2	2	2
	A	2	2	2	2	2	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X26 AND 70299-X26LF	D	2	2	2	2	2	2	3	4	2	2	2	2	3	2	4	2	2	3	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X22 AND 70299-X22LF	D	4	2	4	2	2	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	2	2	2	2	2
	B	2	2	2	2	2	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	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X27 AND 70299-X27LF	D	2	2	2	2	2	2	3	4	2	2	2	2	3	2	4	2	2	3	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	2
	B	2	2	2	2	2	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	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X23 AND 70299-X23LF	D	5	5	7	5	5	5	5	5	7	5	5	5	5	5	7	5	5	5	5	5	5	5	5
	C	5	5	7	5	5	5	5	5	7	5	5	5	5	5	7	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	7	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5
	A	5	5	5	5	5	7	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5


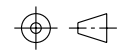
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X28 AND 70299-X28LF	D	2	2	2	2	2	2	3	4	2	2	2	2	3	2	4	2	2	3	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X24 AND 70299-X24LF	D	19	19	1	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	C	19	19	1	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	B	19	19	1	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	A	19	19	1	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X29 AND 70299-X29LF	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5
	B	6	6	6	6	6	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	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X25 AND 70299-X25LF	D	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	C	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	B	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	A	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X30 AND 70299-X30LF	D	4	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	3	1	1	1	1	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	1	1	1	1	1
	A	1	1	1	3	1	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		
ltr	ecn no.	dr	date	linear	0.X ± 0.3		COPY				title		METRAL SIGNAL HEADER	
BX					0.XX ± 0.13		projection				4 MOD, 4 ROW PRESS-FIT			
					angles	.XXX ± 0.051		MM			product family		METRAL	
				0° ± 2°		size				70299		code		213
				dr	T.BRUNGARD	11/19/99	scale		1:1		sheet		6	
				enrg	M.STRAWSER	11/19/99					sheet			
				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					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X31 AND 70299-X31LF	D	1	1	1	1	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	1	1	1	1
	B	1	1	1	1	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	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X36 AND 70299-X36LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	2	2	3	3	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X32 AND 70299-X32LF	D	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
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X37 AND 70299-X37LF	D	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X33 AND 70299-X33LF	D	3	3	3	3	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	3	3	3	3
	B	3	3	3	3	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	4	4	4	4	4	3	4	3	3	3	3	-	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X38 AND 70299-X38LF	D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7	5	7	7	5	7	7	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	7	5	5	5	5	5	7	5	5	5	5	5	7	5	7	7	5	5
	A	5	5	5	5	5	7	5	5	5	5	5	7	5	5	5	5	5	7	5	7	7	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X34 AND 70299-X34LF	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
	A	3	3	3	3	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X39 AND 70299-X39LF	D	4	3	1	1	1	1	1	1	1	1	1	4	-	-	-	1	1	2	1	1	-	1	4
	C	4	1	1	1	1	1	1	1	1	1	1	-	-	-	1	2	3	1	1	-	1	4	
	B	4	2	1	1	1	1	1	1	1	1	1	-	-	-	-	1	1	1	-	1	-	1	4
	A	4	3	1	1	1	1	1	1	1	1	1	-	-	-	1	-	1	1	-	1	-	1	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X35 AND 70299-X35LF	D	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	6	6	7	7	6	6	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X40 AND 70299-X40LF	D	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	21	11	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	21	11	11	9
	B	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	21	11	11	9
	A	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	21	9	21	9

mat'l code				--	tolerances unless otherwise specified				CUSTOMER				FCJ www.fciconnect.com											
ltr	ecr no.	dr	date	linear	0.X ±0.3				COPY				title											
BX					0.XX ±0.13				projection				METRAL SIGNAL HEADER											
					.XXX ±0.051								4 MOD, 4 ROW PRESS-FIT											
					0° ±2°								product family METRAL code											
				dr	T.BRUNGARD	11/19/99			size				213											
				enrg	M.STRAWSER	11/19/99			dwg no				7											
				chr	M.STRAWSER	11/19/99			A				70299											
				appd	M.STRAWSER	02/29/00			1:1				sheet											
sheet index	revision sheet																							

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
70299-X41 AND 70299-X41LF	D	1	1	1	1	1	1	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	1	1	1	3	3	1	1
	B	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X46 AND 70299-X46LF	D	5	5	5	5	5	5	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	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	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	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X42 AND 70299-X42LF	D	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	C	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	B	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	A	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X47 AND 70299-X47LF	D	3	3	3	3	3	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1
	C	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X43 AND 70299-X43LF	D	3	3	3	3	3	3	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	3	3	3	3	3	3	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	4	4	4	4	4	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					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X48 AND 70299-X48LF	D	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5
	C	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5
	B	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5
	A	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X44 AND 70299-X44LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X49 AND 70299-X49LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	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					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X45 AND 70299-X45LF	D	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	3	3	3	3	3	3	4	4	4	4	4	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					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X50 AND 70299-X50LF	D	6	6	6	6	6	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	6	6	7	7	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

mat'l code				--				tolerances unless otherwise specified				CUSTOMER				FCJ					
ltr		ecn no.		dr		date		linear		0.X ±0.3		projection		COPY		www.fcjconnect.com		title			
BX								angles		0.XX ±0.13		MM		METRAL		METRAL		METRAL SIGNAL HEADER			
								dr		.XXX ±.051		MM		product family		METRAL		4 MOD, 4 ROW PRESS-FIT			
								enrg		0° ±2°		MM		size		dwg no		213			
								chr		T.BRUNGARD 11/19/99		MM		A		70299		sheet			
								appd		M.STRAWSER 11/19/99		1:1						8			
sheet index		revision sheet								M.STRAWSER 02/29/00											



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X51 AND 70299-X51LF	D	19	2	3	2	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	19	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	19	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	19	3	1	3	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
70299-X52 AND 70299-X52LF	D	19	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	19	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
70299-X53 AND 70299-X53LF	D	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	3	3	3
	C	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	3	3	3
	B	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	3	3	3
	A	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	3	3	3
70299-X54 AND 70299-X54LF	D	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	19	
	C	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	19	
	B	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	
	A	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	
70299-X55 AND 70299-X55LF	D	19	3	3	3	3	3	3	3	3	1	19	7	7	7	7	7	7	7	7	7	7	7	7	7
	C	19	3	3	3	3	3	3	3	3	2	19	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	19	3	3	3	3	3	3	3	3	3	19	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	19	3	3	3	3	3	3	3	3	3	19	7	7	7	7	7	7	7	7	7	7	7	7	7
70299-X56 AND 70299-X56LF	D	19	3	3	3	3	3	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	19	3	3	2	3	3	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	19	3	3	3	3	3	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	19	3	1	3	3	3	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3
70299-X57 AND 70299-X57LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7
70299-X58 AND 70299-X58LF	D	7	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	7	5	7	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	5	5	5	5	5	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7
70299-X59 AND 70299-X59LF	D	5	5	5	5	5	5	5	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	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	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	5	5	5	5	5	5
70299-X60 AND 70299-X60LF	D	7	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	7	5	7	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	A	5	5	5	5	5	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCi		www.fciconnect.com				
ltr	ecr no.	dr	date	linear	0.X ± 0.3		COPY				title		METRAL SIGNAL HEADER			
BX					0.XX ± 0.13		projection				4 MOD, 4 ROW PRESS-FIT					
					.XXX ± 0.051						product family		METRAL		code	
					0° ± 2°						size		70299		213	
				dr	T.BRUNGARD	11/19/99		scale		A		sheet		9		
				enrg	M.STRAWSER	11/19/99										
				chr	M.STRAWSER	11/19/99										
				appd	M.STRAWSER	02/29/00										
sheet index	revision sheet															

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X61 AND 70299-X61LF	D	5	5	5	5	5	5	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	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	5	5	5	5	5
	A	5	5	5	5	5	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X66 AND 70299-X66LF	D	1	-	-	1	1	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	1	1	1	1	1
	B	1	1	-	-	1	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	3	3	3	3	3	1	3	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X62 AND 70299-X62LF	D	5	5	7	5	5	5	5	5	7	5	5	5	5	7	5	5	5	5	5	5	5	5	5
	C	5	5	7	5	5	5	5	5	7	5	5	5	5	7	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5	5	7	5	7	7	5	5	5
	A	5	5	5	5	5	7	5	5	5	5	5	5	5	5	5	5	7	5	7	7	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X67 AND 70299-X67LF	D	19	2	3	2	3	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	C	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	19	3	1	3	3	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X63 AND 70299-X63LF	D	7	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	7
	C	7	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	7
	B	7	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	7
	A	7	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X68 AND 70299-X68LF	D	1	-	-	-	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	1	-	1	1	1
	B	1	1	-	-	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	3	3	3	3	3	1	3	1	1	1	1	1	-	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X64 AND 70299-X64LF	D	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3
	C	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3
	B	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3
	A	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X69 AND 70299-X69LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	3
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	3
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	3
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X65 AND 70299-X65LF	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
	A	1	1	1	1	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X70 AND 70299-X70LF	D	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	C	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	B	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	A	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3

mat'l code				--	tolerances unless otherwise specified				CUSTOMER				FCJ www.fcjconnect.com											
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY				title METRAL SIGNAL HEADER											
BX					0.XX ±0.13				projection				4 MOD, 4 ROW PRESS-FIT											
					angles	.XXX ±.051								product family METRAL										
						0° ±2°				MM				code 213										
				dr	T.BRUNGARD	11/19/99				scale 1:1				size A										
				enrg	M.STRAWSER	11/19/99				dwg no 70299				sheet 10										
				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					MOD. 3					MOD. 4									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
70299-X71 AND 70299-X71LF	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
70299-X76 AND 70299-X76LF	D	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
	C	3	3	3	3	3	3	3	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	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	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X72 AND 70299-X72LF	D	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	2	2	3
	C	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	2	2	3
	B	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	2	2	3
	A	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	2	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X77 AND 70299-X77LF	D	1	1	1	5	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	1	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	1	1	1	1	1	1	1	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					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X73 AND 70299-X73LF	D	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3
	C	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3
	B	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3
	A	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3


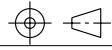

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X78 AND 70299-X78LF	D	3	3	-	3	3	-	3	3	-	3	3	3	-	3	3	-	3	3	3	3	3	3	3	-
	C	3	3	-	3	3	-	3	3	-	3	3	3	-	3	3	-	3	3	4	3	3	3	3	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	-
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	-	3	3	3	3	3	3	3	3	3	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X74 AND 70299-X74LF	D	1	-	-	-	1	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	1	1	1	1	1
	B	1	1	-	-	1	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	2	2	2	2	1	2	1	1	1	1	-	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X79 AND 70299-X79LF	D	3	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	-	4	3	3	3	3
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	4	4	4	4	4	4	4	4	4	4	4	4	4	-	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X75 AND 70299-X75LF	D	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	6	6	6	6	6
	C	7	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	6	6	6	6	6	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X80 AND 70299-X80LF	D	3	3	3	3	3	3	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	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	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	3	3	3	3	3	3

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection		COPY			
BX				angles	0.XX ±0.13			title		METRAL SIGNAL HEADER	
				dr	.XXX ±.051			product family		METRAL	
				engr	0° ±2°	scale		size		dwg no	
				chr	T.BRUNGARD 11/19/99	1:1		A		70299	
				appd	M.STRAWSER 11/19/99					code	
sheet index	revision sheet				M.STRAWSER 02/29/00					213	
										sheet	
										11	



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X81 AND 70299-X81LF	D	3	3	3	3	3	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	3	3	3	3	3
	B	3	3	3	3	3	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	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X86 AND 70299-X86LF	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	4	3	3
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3
	A	3	3	3	3	3	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X82 AND 70299-X82LF	D	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X87 AND 70299-X87LF	D	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
	B	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X83 AND 70299-X83LF	D	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X88 AND 70299-X88LF	D	5	7	6	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7
	C	5	7	6	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7
	B	5	7	6	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7
	A	5	7	6	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X84 AND 70299-X84LF	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	4	3	3
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3
	A	4	4	4	4	4	4	4	4	4	4	4	4	-	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X89 AND 70299-X89LF	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X85 AND 70299-X85LF	D	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	4	3	3
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3
	A	3	3	3	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					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
70299-X90 AND 70299-X90LF	D	6	6	6	6	6	6	7	6	6	6	6	7	6	6	6	6	6	6	6	6	6	7	7
	C	6	6	6	6	6	6	7	6	6	6	6	7	6	6	6	6	6	6	6	6	6	7	7
	B	6	6	6	6	6	6	7	6	6	6	6	7	6	6	6	6	6	6	6	6	6	7	7
	A	6	6	6	6	6	6	7	6	6	6	6	7	6	6	6	6	6	6	6	6	6	7	7

mat'l code				--		tolerances unless otherwise specified				CUSTOMER					
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY		www.fciconnect.com				
BX					0.XX ±0.13				projection		title METRAL SIGNAL HEADER				
					.XXX ±.051						4 MOD, 4 ROW PRESS-FIT				
					0° ±2°				angles		product family		METRAL		
				dr	T.BRUNGARD	11/19/99		MM		size		dwg no		code	
				enrg	M.STRAWSER	11/19/99				A		70299		213	
				chr	M.STRAWSER	11/19/99		scale		1:1				sheet	
				appd	M.STRAWSER	02/29/00								12	
sheet index	revision sheet														



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X91 AND 70299-X91LF	D	2	2	2	2	2	2	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	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	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	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X96 AND 70299-X96LF	D	1	2	2	2	2	2	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	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	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	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X92 AND 70299-X92LF	D	6	6	6	6	6	6	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	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	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	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X97 AND 70299-X97LF	D	2	2	2	2	2	2	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	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	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	2	2	2	2	2	2


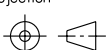

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X93 AND 70299-X93LF	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X98 AND 70299-X98LF	D	45	45	22	45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	C	45	45	45	45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	B	45	45	45	45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	A	45	45	45	45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X94 AND 70299-X94LF	D	3	3	3	3	19	3	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	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	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	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X99 AND 70299-X99LF	D	7	7	22	7	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	C	7	7	7	7	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	B	7	7	7	7	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	A	7	7	7	7	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
70299-X95 AND 70299-X95LF	D	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	C	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	B	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3
	A	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	4	3	3

mat'l code				--				tolerances unless otherwise specified				CUSTOMER				 www.fciconnect.com					
ltr		ecn no.		dr		date		linear		0.X ±0.3		projection		COPY		title		METRAL SIGNAL HEADER			
BX										0.XX ±0.13						4 MOD, 4 ROW PRESS-FIT					
								angles		.XXX ±.051						product family		METRAL		code	
								dr		T.BRUNGARD 11/19/99		MM		size		dwg no		213		sheet	
								engr		M.STRAWSEY 11/19/99				A		70299		13			
								chr		M.STRAWSEY 11/19/99		1:1									
								appd		M.STRAWSEY 02/29/00											
sheet index		revision sheet																			



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