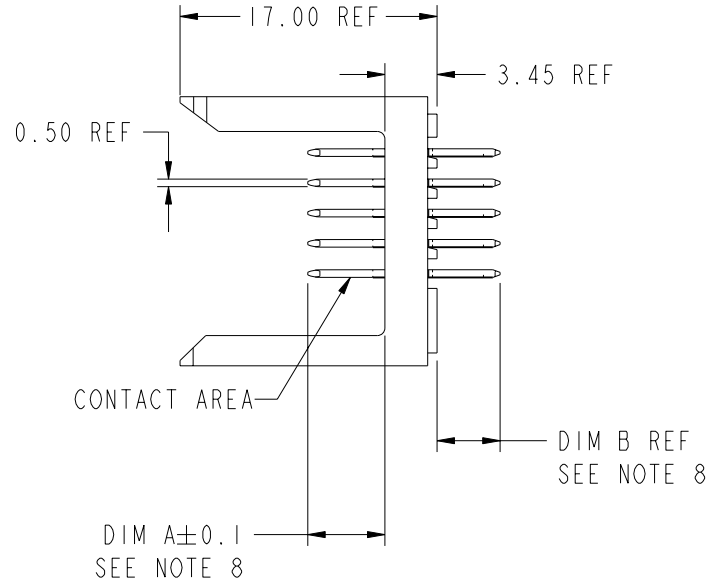
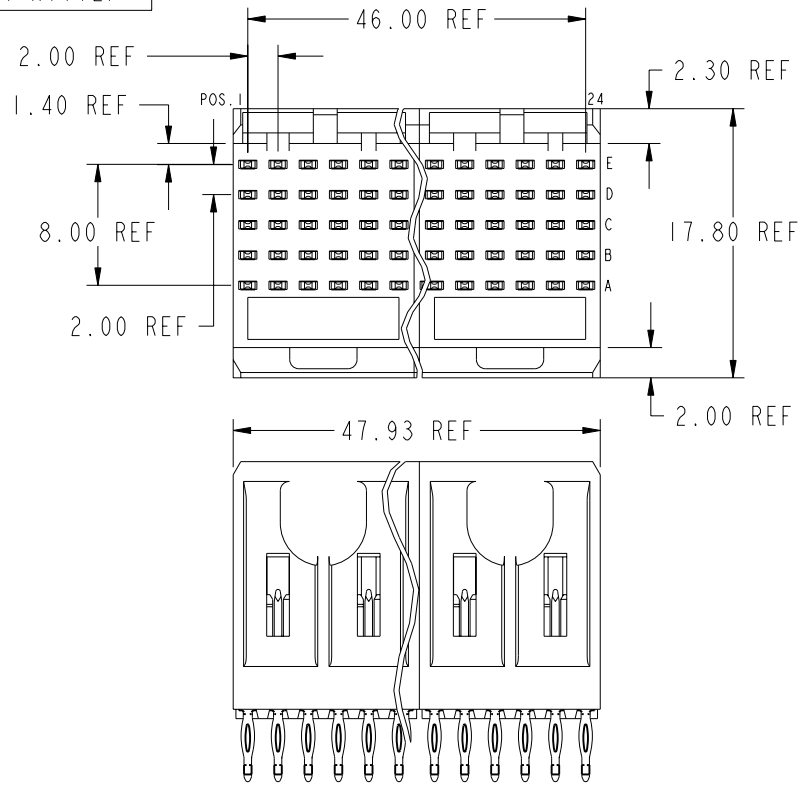
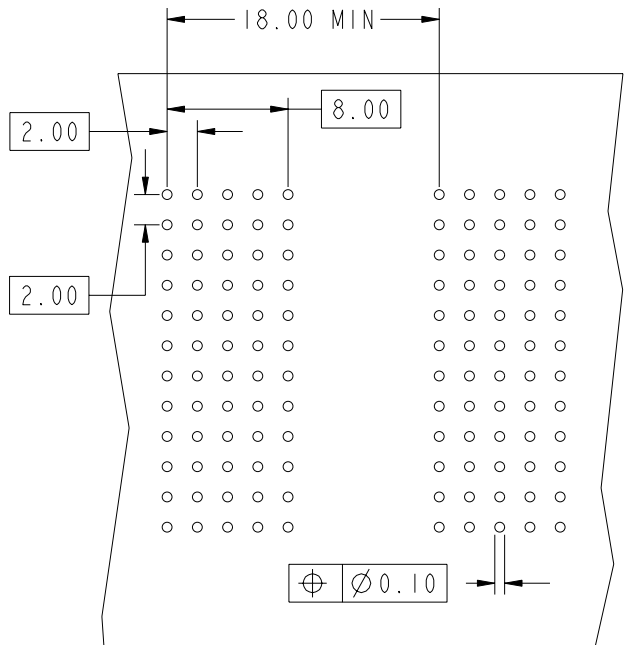


PRODUCT NUMBER
85854-XYX OR 85854-XYXX
85854-XYXLF OR 85854-XYXXLF



DE	DE																			
19	20																			
mat'l code				--				tolerances unless otherwise specified				CUSTOMER								
ltr	ecn no.	dr	date	linear				projection				COPY								
DE	V06-0492	DCH	2006-05-23	0.X ± 0.3				0.XX ± 0.13				METRAL SIGNAL HEADER								
-	-	-	-	.XXX ± .051				0° ± 2°				4 MOD, 5 ROW PRESS-FIT								
CY	V04-0151	HTB	02/13/04	angles	dr	T.BRUNGARD	11/19/99	MM				product family METRAL code								
DA	V04-0408	TAB	04/27/04	engr	M.STRAWSER	11/19/99	scale				size									
DB	V04-0353	DAI	05/04/04	chr	M.STRAWSER	11/19/99	2:1				dwg no									
DC	V04-0560	HTB	06/01/04	appd	M.STRAWSER	02/29/00	A				85854									
DD	V04-1100	DAI	01/26/05									sheet								
sheet		revision	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE			
index		sheet	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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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
16	7.00	4.30
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00
25	5.75	15.60
39	8.00	14.40
44	5.75	12.10
49	5.75	15.10
52	8.00	15.10
54	5.00	11.50

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



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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 4 MOD, 5 ROW PRESS-FIT
DE					0.XX ±0.13		projection		
					.XXX ±.051				
				angles	0° ±2°				
				dr	T.BRUNGARD	11/19/99	MM		product family
				enr	M.STRAWSER	11/19/99	← MM →		METRAL
				chr	M.STRAWSER	11/19/99	scale		code
				appd	M.STRAWSER	02/29/00	1:1		213
sheet index	revision sheet						size	dwg no	sheet
							A	85854	2

cage code 22526



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1 | 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
85854-X01 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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
85854-X02 SEE NOTE 10 LEAD FREE OPTION	E	19	3	19	19	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19
	D	3	19	19	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3
	C	19	3	19	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3
	B	3	19	19	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3
	A	19	19	19	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	3	3	19	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
85854-X03 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	19	19	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
	A	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
85854-X04 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	D	1	1	1	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	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	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
	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
85854-X05 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	19	19	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
85854-X06 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	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	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	10	10	10	10	10	10
	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
85854-X07 SEE NOTE 10 LEAD FREE OPTION	E	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	D	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	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
85854-X08 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	19	19
	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

A

A

B

B

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, 5 ROW PRESS-FIT
DE					0.XX ±0.13		projection		
					.XXX ±.051		 product family METRAL code		
				angles	0° ±2°		 size dwg no		213
				dr	T.BRUNGARD	11/19/99	 scale 1:1		sheet
				engr	M.STRAWSER	11/19/99	A		3
				chr	M.STRAWSER	11/19/99	85854		
				appd	M.STRAWSER	02/29/00			
sheet index	revision sheet						cage code		

1 | 2

Pro/E

3 |

cage code 22526

4



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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
85854-X09 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	4	4	4	19	19
	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
85854-X10 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	1	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
85854-X11 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	B	5	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	24
85854-X12 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	C	1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	1
	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
85854-X13 SEE NOTE 10 LEAD FREE OPTION	E	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	D	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	C	3	2	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	2	3
	B	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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
85854-X14 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
	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
85854-X15 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	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
	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	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
85854-X16 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	D	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	8	8	8	20	20
	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

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
DE				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	MM		product family		code	
				engr	0° ±2°	1:1		METRAL		213	
				chr	T.BRUNGARD 11/19/99	A		size		sheet	
				appd	M.STRAWSER 11/19/99	85854		dwg no		4	
					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
85854-X17 SEE NOTE 10 LEAD FREE OPTION	E	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
	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	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	3	1
	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	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
85854-X18 SEE NOTE 10 LEAD FREE OPTION	E	6	7	6	7	6	7	6	7	6	7	6	7	6	6	6	6	7	6	7	6	7	6	7
	D	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
	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
85854-X19 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	-	2	2	2	2	2	2	5	2	5	2	5	2	5	2	5	2	5	2
	D	-	-	-	-	-	2	2	2	2	2	2	5	2	5	2	5	2	5	2	5	2	5	2
	C	-	-	-	-	-	2	2	2	2	2	2	5	2	5	2	5	2	5	2	5	2	5	2
	B	-	-	-	-	-	2	2	2	2	2	2	5	2	5	2	5	2	5	2	5	2	5	2
	A	-	-	-	-	-	2	2	2	2	2	2	5	2	5	2	5	2	5	2	5	2	5	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
85854-X20 SEE NOTE 10 LEAD FREE OPTION	E	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
	D	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
	C	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
	B	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
	A	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4	9	4

3 | 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
85854-X21 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	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	4	4	4	4	4
	B	4	4	4	4	4	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	4	4	4	4	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
85854-X22 SEE NOTE 10 LEAD FREE OPTION	E	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5
	D	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5
	C	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5
	B	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5
	A	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	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
85854-X23 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	1	2	2	2	2	2	2	1	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
85854-X24 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ± 0.3	COPY		projection		title	
DE				angles	0.XX ± 0.13	MM				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ± .051	T.BRUNGARD 11/19/99		product family		METRAL code	
				engr	0° ± 2°	M.STRAWSER 11/19/99		size		213	
				chr		M.STRAWSER 11/19/99		dwg no		sheet	
				appd		M.STRAWSER 02/29/00		A		5	
sheet index	revision sheet					scale 1:1		85854			

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B



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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
85854-X25 SEE NOTE 10 LEAD FREE OPTION	E	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	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
85854-X26 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2
	C	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2
	A	-	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
85854-X27 SEE NOTE 10 LEAD FREE OPTION	E	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6
	C	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6
	A	-	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
85854-X28 SEE NOTE 10 LEAD FREE OPTION	E	9	11	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	10	11	11	9
	D	9	11	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	10	11	11	9
	C	9	11	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	10	11	11	9
	B	9	11	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	10	11	11	9
	A	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	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
85854-X29 SEE NOTE 10 LEAD FREE OPTION	E	5	7	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
	D	5	7	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
	C	5	7	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
	B	5	7	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
	A	5	7	6	6	6	6	6	6	6	6	6	5	7	6	6	6	6	6	6	6	6	7	7	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
85854-X30 SEE NOTE 10 LEAD FREE OPTION	E	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	1
	D	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	1
	C	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	1
	B	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	1
	A	1	3	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	3	3	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
85854-X31 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	2	2
	C	2	-	4	-	2	-	2	-	2	-	2	-	2	-	4	-	2	-	2	2	2	4	4	4
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	1
	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	4	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
85854-X32 SEE NOTE 10 LEAD FREE OPTION	E	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	
	D	-	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	
	B	-	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	-

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mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com			
ltr	ecr no.	dr	date	0.X ±0.3				COPY				title			
DE				0.XX ±0.13				projection				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT			
				.XXX ±.051								product family			
				0° ±2°				MM				METRAL			
				dr	T.BRUNGARD	11/19/99	scale				code				
				engr	M.STRAWSER	11/19/99	1:1				213				
				chr	M.STRAWSER	11/19/99	A				sheet				
				appd	M.STRAWSER	02/29/00					6				
sheet index	revision sheet														

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Pro/E

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cage code 22526

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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
85854-X33 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2
	C	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
	B	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	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
85854-X34 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	19	3	3	3	3	3	3	4
	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
	C	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
	B	3	19	3	3	19	3	3	19	3	19	3	19	3	3	3	3	3	3	3	3	3	3	4
	A	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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
85854-X35 SEE NOTE 10 LEAD FREE OPTION	E	4	4	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	19	3
	D	4	4	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	19
	C	4	4	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	19
	B	4	4	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	19
	A	4	4	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	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	24
85854-X36 SEE NOTE 10 LEAD FREE OPTION	E	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	54
	D	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	54
	C	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	54
	B	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	54
	A	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	54

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
85854-X37 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	1	4	4	4	4	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	4	4	4	4	4
	A	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							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
85854-X38 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	19	4
	D	4	4	4	4	4	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	4	4	4	4	4
	B	4	4	4	4	4	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	4	4	4	4	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
85854-X39 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3
	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	19	3	3	3	3	19
	B	3	19	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	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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
85854-X40 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	D	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	1	1	2	2	2	1	2	2	2	2	1	1	2	2	2	2	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

A

A

B

B

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
DE				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	MM		product family		code	
				engr	0° ±2°	MM		METRAL		213	
				chr	T.BRUNGARD 11/19/99	1:1		size		sheet	
				appd	M.STRAWSER 11/19/99	A		85854		7	
					M.STRAWSER 02/29/00						
sheet index	revision sheet										

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Pro/E

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cage code 22526

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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
85854-X41 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	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	1	1	2	2	2	2	1	1	2	2	2	1	1	2	2	2	2	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	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
85854-X42 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	A	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
85854-X43 SEE NOTE 10 LEAD FREE OPTION	E	-	5	5	-	5	5	-	5	5	-	5	5	-	5	5	-	5	5	-	5	5	-	5	5
	D	-	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
	B	-	-	-	-	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
85854-X44 SEE NOTE 10 LEAD FREE OPTION	E	8	20	8	20	8	20	8	20	20	7	7	20	20	20	20	7	20	7	20	7	20	20	20	20
	D	8	20	8	20	8	20	8	20	20	7	7	20	20	7	20	7	20	7	20	7	20	7	20	20
	C	20	20	20	20	20	20	8	20	20	7	7	20	20	20	20	7	20	7	20	20	20	20	20	20
	B	7	20	7	20	7	20	7	20	7	20	7	20	20	7	20	20	20	20	20	20	20	20	20	20
	A	20	7	7	7	7	7	7	7	7	20	20	20	20	20	20	7	20	7	20	7	20	7	20	20

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
85854-X45 SEE NOTE 10 LEAD FREE OPTION	E	4	19	4	19	4	19	4	19	3	3	19	19	3	3	19	19	3	3	19	19	3	3	19	19
	D	4	19	4	19	4	19	4	19	3	3	19	19	3	3	19	19	3	3	19	19	3	3	19	19
	C	19	19	19	19	19	19	4	19	19	3	3	19	19	19	19	3	19	3	19	3	19	3	19	19
	B	3	19	3	19	3	19	3	19	3	3	19	19	3	3	19	19	3	3	19	19	3	3	19	19
	A	19	3	3	3	3	3	3	3	3	3	3	3	3	3	19	19	19	19	3	19	3	19	3	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
85854-X46 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	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	24
85854-X47 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	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
85854-X48 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	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	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	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

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mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com			
ltr	ecr no.	dr	date	0.X ±0.3				COPY				title			
DE				0.XX ±0.13				projection				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT			
				.XXX ±.051								product family			
				0° ±2°								METRAL			
				dr	T.BRUNGARD	11/19/99		scale				size		code	
				engr	M.STRAWSER	11/19/99		1:1				dwg no		213	
				chr	M.STRAWSER	11/19/99						A		85854	
				appd	M.STRAWSER	02/29/00								sheet	
sheet index		revision sheet												8	

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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
85854-X49 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
	C	1	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	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	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
85854-X50 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	D	3	1	1	1	1	1	1	1	1	1	1	3	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	3	1	1	1	1	1	1	1	1	1	1	3	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

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
85854-X51 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	4	4	4	4	4
	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
85854-X52 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	D	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	C	1	1	2	2	2	2	1	1	2	2	2	1	1	2	2	2	2	1	1	2	2	2	2
	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

3 | 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
85854-X53 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	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	1	1	2	2	2	2	1	1	2	2	2	2	1	1	2	2	2	2	1	1	2	2	2
	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	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
85854-X54 SEE NOTE 10 LEAD FREE OPTION	E	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1
	D	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	B	-	-	-	-	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

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
85854-X55 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	3	3	-	-	3	3	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	3	3	-	-	3	3	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	3	3	-	-	3	3	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	3	3	-	-	3	3	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	19	19	-	-	19	19	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
85854-X56 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	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	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	3

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ± 0.3		COPY					
DE					0.XX ± 0.13		projection					
					.XXX ± .051							
				angles	0° ± 2°				title		METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	T.BRUNGARD	11/19/99	MM		product family		METRAL	code
				engr	M.STRAWSER	11/19/99	1:1		size		dwg no	213
				chr	M.STRAWSER	11/19/99			A		85854	sheet
				appd	M.STRAWSER	02/29/00					9	
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		
85854-X57 SEE NOTE 10 LEAD FREE OPTION	E	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	1	1			
	D	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1		
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1		
	B	-	-	-	-	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	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
85854-X58 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1
	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	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	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
85854-X59 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-
	D	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	1	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
	B	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	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
85854-X60 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	3	2	2	2	2	2	2	2	2	2	2	3	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	3	2	2	2	2	2	2	2	2	2	2	3	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

3 | 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	24
85854-X61 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	4	2	2	2	2	2	4	2	2	2	2	1	2	2	2	2	4	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
85854-X62 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
	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	1	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
85854-X63 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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	19	19	19	19	19	19	19	19	19	19	19	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	19	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
85854-X64 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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	1	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		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ± 0.3	COPY		projection		title	
DE				angles	0.XX ± 0.13	MM				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ± 0.051	T.BRUNGARD 11/19/99		product family		METRAL code	
				engr	0° ± 2°	M.STRAWSER 11/19/99		size		213	
				chr		M.STRAWSER 11/19/99		dwg no		sheet	
				appd		M.STRAWSER 02/29/00		A		10	
sheet index	revision sheet					scale 1:1		85854			



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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
85854-X65 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
	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

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
85854-X66 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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
	A	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	
85854-X67 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	2	2	3	3
	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	2
	B	2	2	2	2	2	2	2	2	2	2	3	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	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
85854-X68 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4

3 | 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	24
85854-X69 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	4	2	2	2	2	2	2	2	2	2	2	2	4	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	4	2	2	2	2	2	2	2	2	2	2	2	4	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
85854-X70 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
	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
85854-X71 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	5	6	5	5	5	5	6	5	5	5	5	5	5	5	5	5	6
	D	5	5	6	5	5	5	5	5	6	5	5	5	5	6	5	5	5	5	5	5	5	5	5	6
	C	5	5	6	5	5	5	5	5	6	5	5	5	5	6	5	5	5	5	5	5	5	5	5	6
	B	5	5	6	5	5	5	5	5	6	5	5	5	5	6	5	5	5	5	5	5	5	5	5	6
	A	5	5	6	5	5	5	5	5	6	5	5	5	5	6	5	5	5	5	5	5	5	5	5	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
85854-X72 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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 4 MOD, 5 ROW PRESS-FIT		
DE					0.XX ± 0.13		projection				
					.XXX ± .051						
				angles	0° ± 2°				product family		code
				dr	T.BRUNGARD	11/19/99	MM		METRAL		213
				engr	M.STRAWSER	11/19/99	← MM →		size		sheet
				chr	M.STRAWSER	11/19/99	scale		A		11
				appd	M.STRAWSER	02/29/00	1:1		85854		
sheet index	revision sheet								cage code		
									22526		



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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
85854-X73 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	4	2	2	2	1	2	2	2	2	2	2	4	2	2	2	2	2	2	2
	D	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	4	2	2	2	3	3	3	2	2	2	2	4	2	2	2	2	2	2	2
	B	2	2	2	2	2	4	2	2	2	3	2	2	2	2	2	2	4	2	2	2	2	2	2	2
	A	2	2	2	2	2	4	2	2	2	3	2	2	2	2	2	2	4	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
85854-X74 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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
85854-X75 SEE NOTE 10 LEAD FREE OPTION	E	3	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	D	3	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	C	3	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	B	3	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	A	3	19	1	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	24
85854-X76 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	D	1	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	1	3
	C	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3
	B	3	3	3	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	3	3

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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	
85854-X77 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	2	4	2	2	2	
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	2	2	
	C	2	-	4	-	2	-	2	-	2	-	2	-	2	-	4	-	2	-	2	2	2	4	4	4	
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	1	1
	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	2	4	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
85854-X78 SEE NOTE 10 LEAD FREE OPTION	E	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2
	D	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2
	C	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2
	B	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2
	A	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	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
85854-X79 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	D	2	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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
	A	1	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
85854-X80 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1
	D	2	2	2	1	1	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2
	C	1	1	1	3	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2
	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
	A	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ± 0.3	COPY		projection		title	
DE				angles	0.XX ± 0.13	MM				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ± .051	T.BRUNGARD 11/19/99		product family		METRAL code	
				engr	0° ± 2°	M.STRAWSER 11/19/99		size		213	
				chr		M.STRAWSER 11/19/99		dwg no		sheet	
				appd		M.STRAWSER 02/29/00		A		12	
sheet index	revision sheet					scale 1:1		85854			



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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
85854-X81 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2
	D	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2
	C	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2
	B	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2
	A	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	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
85854-X82 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2
	C	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2
	A	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
85854-X83 SEE NOTE 10 LEAD FREE OPTION	E	3	19	3	19	3	19	3	19	19	1	1	19	19	19	19	19	1	19	19	19	19	19	19	19
	D	4	19	3	19	3	19	3	19	19	1	1	19	19	4	19	1	19	19	19	19	19	1	19	19
	C	1	19	19	19	19	19	3	19	19	1	1	19	19	19	19	19	1	19	19	19	19	19	19	19
	B	4	19	4	19	1	19	1	19	1	1	19	19	19	1	19	19	19	19	19	19	19	19	19	19
	A	19	1	1	1	1	1	1	1	1	1	19	19	19	19	19	19	19	19	19	19	19	1	19	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	24
85854-X84 SEE NOTE 10 LEAD FREE OPTION	E	4	-	-	-	3	3	4	4	3	4	3	4	4	2	2	2	2	2	4	4	4	4	2	2
	D	4	-	-	-	3	3	4	4	3	4	3	4	4	4	4	2	2	2	2	4	4	4	2	2
	C	4	-	-	-	3	3	4	4	3	4	3	4	2	2	2	2	2	2	4	4	4	2	2	2
	B	4	-	-	-	3	3	4	4	3	4	3	4	2	2	2	2	4	4	2	4	4	2	2	2
	A	4	-	-	-	3	3	4	4	3	4	3	4	2	2	2	2	4	4	2	4	4	2	2	2

3 | 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	24	
85854-X85 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
	D	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	-
	B	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	-

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	
85854-X86 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	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	4	4
	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	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	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
85854-X87 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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

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
85854-X88 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	D	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com					
ltr	ecr no.	dr	date	0.X ±0.3				COPY				title					
DE				0.XX ±0.13				projection				METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT					
				.XXX ±.051								product family					
				0° ±2°								METRAL					
				dr	T.BRUNGARD	11/19/99											code
				engr	M.STRAWSER	11/19/99											213
				chr	M.STRAWSER	11/19/99											sheet
				appd	M.STRAWSER	02/29/00											13
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
85854-X89 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	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	-
	B	-	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	-

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
85854-X90 SEE NOTE 10 LEAD FREE OPTION	E	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	D	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	C	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	B	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	A	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59

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
85854-X91 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	D	8	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	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	8	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		
85854-X92 SEE NOTE 10 LEAD FREE OPTION	E	20	7	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7
	D	20	7	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7
	C	20	7	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7
	B	20	7	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7
	A	20	7	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7	20	7	7	7	7

3 | 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	24		
85854-X93 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3
	D	19	3	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3
	C	19	3	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3
	B	19	3	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3
	A	19	3	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	3	3	3	3	19	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	
85854-X94 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	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	6
	C	20	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	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	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	
85854-X95 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	1	19	1	2	2	1	2	2	2	2	2	19	1	2	2	1	2	2	2	19
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	19	1	2	2	2	2	2	2	19
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	19	1	2	2	2	2	2	2	19
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	19	1	2	2	2	2	2	2	19
	A	2	2	2	2	2	1	2	1	2	2	2	2	2	2	2	2	19	1	2	2	2	2	2	2	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	24	
85854-X96 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	2
	C	19	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	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	2

mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com			
ltr	ecr no.	dr	date	0.X ±0.3				COPY				title			
DE				0.XX ±0.13				projection				METRAL SIGNAL HEADER			
				.XXX ±.051								4 MOD, 5 ROW PRESS-FIT			
				0° ±2°				MM				product family			
				dr T.BRUNGARD 11/19/99				scale				METRAL			
				enrg M.STRAWSER 11/19/99				1:1				code			
				chr M.STRAWSER 11/19/99				A				213			
				appd M.STRAWSER 02/29/00				size				sheet			
sheet index		revision sheet		85854				14				cage code			
				22526				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	24
85854-X97 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2
	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
85854-X98 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	2	2	3	1	3	3	2	2	2	3	3	4	2	4	3	4	3	3	3	3
	D	3	3	3	3	2	2	3	1	3	3	2	2	2	3	3	4	2	4	3	4	3	3	3	3
	C	3	3	3	3	2	2	3	1	3	3	1	2	2	3	3	4	4	4	4	4	3	3	3	3
	B	3	3	3	3	2	2	3	1	3	3	2	2	2	3	3	4	2	4	3	4	3	3	3	3
	A	3	3	3	3	2	2	3	1	3	3	2	2	2	3	3	4	2	4	3	4	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
85854-X99 SEE NOTE 10 LEAD FREE OPTION	E	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	D	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4
	A	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	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	24
85854-X100 SEE NOTE 10 LEAD FREE OPTION	E	3	3	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8
	D	3	3	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8
	C	3	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	B	3	3	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8
	A	3	3	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8	6	8

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
85854-X101 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	2	2	2	2	2	1	2
	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
85854-X102 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	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	24	
85854-X103 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	5	5	6	5	5	5	5	6	5	6	5	5	5	6	5	6	6	5
	D	5	5	6	5	5	5	5	5	5	6	5	5	5	5	6	5	6	5	5	5	6	5	6	6	5
	C	5	5	6	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
	B	5	5	6	5	5	5	5	5	5	6	5	5	5	5	6	5	6	5	5	5	6	5	6	6	5
	A	5	5	6	5	5	5	5	5	5	6	5	5	5	5	6	5	6	5	5	5	6	5	6	6	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
85854-X104 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	D	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
	B	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



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mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com			
ltr	ecr no.	dr	date	0.X ±0.3				COPY				title			
DE				0.XX ±0.13				projection				METRAL SIGNAL HEADER			
				.XXX ±.051								4 MOD, 5 ROW PRESS-FIT			
				0° ±2°				MM				product family			
				dr	T.BRUNGARD	11/19/99	scale				METRAL				
				enrg	M.STRAWSER	11/19/99	1:1				code				
				chr	M.STRAWSER	11/19/99	A				213				
				appd	M.STRAWSER	02/29/00	85854				sheet				
sheet index		revision sheet										15			

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
85854-X105 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3
	C	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4
	B	3	4	3	3	4	3	3	4	3	3	4	3	3	4	2	1	3	3	3	3	3	3	3	3
	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
85854-X109 SEE NOTE 10 LEAD FREE OPTION	E	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-
	D	-	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	-
	B	-	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	-

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
85854-X106 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	D	3	3	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	C	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	B	3	3	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4
	A	3	3	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	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	24
85854-X110 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
	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
85854-X107 SEE NOTE 10 LEAD FREE OPTION	E	7	20	7	20	7	20	7	20	5	20	20	20	5	20	20	20	5	20	5	20	5	20	20	20
	D	8	20	7	20	7	20	7	20	20	5	20	20	8	20	5	20	5	20	5	20	5	20	20	20
	C	5	20	20	20	20	7	20	20	5	5	20	20	20	20	20	5	20	5	20	5	20	20	20	20
	B	8	20	8	20	5	20	5	20	5	20	20	20	5	20	20	20	20	20	20	20	20	20	20	20
	A	20	5	5	5	5	5	5	5	20	20	20	20	20	20	5	20	5	20	5	20	5	20	5	20

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
85854-X111 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2
	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
85854-X108 SEE NOTE 10 LEAD FREE OPTION	E	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	D	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
	B	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

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
85854-X112 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6
	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



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mat'l code				--				tolerances unless otherwise specified				CUSTOMER				www.fciconnect.com			
ltr	ecr no.	dr	date	linear				0.X ±0.3				COPY				title			
DE				angles				0.XX ±0.13				projection				METRAL SIGNAL HEADER			
				dr				.XXX ±.051								4 MOD, 5 ROW PRESS-FIT			
				enrg				0° ±2°				MM				product family			
				chr				T.BRUNGARD 11/19/99				← MM →				METRAL			
				appd				M.STRAWSER 11/19/99				scale				code			
								M.STRAWSER 02/29/00				1:1				size			
sheet index	revision sheet											A				85854			
																213			
																sheet			
																16			

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
85854-X113 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	4	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	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	4	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
85854-X114 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	D	4	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	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	4	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	4	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
85854-X115 SEE NOTE 10 LEAD FREE OPTION	E	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	D	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	8	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
85854-X116 SEE NOTE 10 LEAD FREE OPTION	E	2	4	4	2	19	6	6	6	6	2	19	2	2	2	6	6	6	6	6	6	2	1	2
	D	2	4	4	2	19	6	6	6	6	2	19	2	2	2	6	6	6	6	6	6	2	3	2
	C	2	4	4	2	19	6	6	6	6	2	19	2	2	2	6	6	6	6	6	6	2	2	2
	B	2	4	4	2	19	6	6	21	6	2	19	2	2	2	6	6	6	21	6	2	2	2	2
	A	2	4	4	2	19	6	6	6	6	2	19	2	2	2	6	6	6	6	6	6	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
85854-X117 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	6	6	6	2	6	2	2	2	2	2	6	6	6	6	6	6	2	2	2	2
	D	2	2	2	6	6	6	2	6	2	2	2	2	2	6	6	6	6	6	6	2	2	2	2
	C	2	2	2	6	6	6	2	6	2	2	2	2	2	6	6	6	6	6	6	2	2	2	2
	B	2	2	2	6	6	6	21	6	2	2	2	2	2	6	6	6	21	6	2	2	2	2	2
	A	2	2	2	6	6	6	2	6	2	2	2	2	2	6	6	6	6	6	6	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
85854-X118 SEE NOTE 10 LEAD FREE OPTION	E	2	4	4	2	19	2	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	1	2
	D	2	4	4	2	19	2	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	3	2
	C	2	4	4	2	19	2	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	4	4	2	19	2	2	19	2	2	19	2	2	2	2	2	2	2	2	2	19	2	2	2
	A	2	4	4	2	19	2	2	2	2	2	2	19	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
85854-X119 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	19	2	2	2	2	2	2	2	2	2	2	2	2	19	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
85854-X120 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	19	19	19
	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	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	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

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
85854-X121 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	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		
85854-X122 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	6	7	7
	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	6	7	7
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	6	7	7
	B	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	6	7	7
	A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	6	7	7



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ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		title		METRAL SIGNAL HEADER	
DE				angles	0.XX ±0.13	projection		4 MOD, 5 ROW PRESS-FIT			
					.XXX ±.051	MM		product family		METRAL	
				dr	0° ±2°	← MM →		size		213	
				engr	T.BRUNGARD 11/19/99	scale		dwg no		85854	
				chr	M.STRAWSER 11/19/99	1:1		sheet		17	
				appd	M.STRAWSER 02/29/00			cage code		22526	
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		
85854-X123 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	3	3	
	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	3	3
	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	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			
85854-X128 SEE NOTE 10 LEAD FREE OPTION	E	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	
	D	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-
	C	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	
	B	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-
	A	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64

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			
85854-X124 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	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	3	3	
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	3	3	
	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	2	3	3
	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	2	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				
85854-X129 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	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	2	3	3	
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	3	3	
	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	2	2	3	3
	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	2	2	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		
85854-X125 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	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	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	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	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	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					
85854-X130 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	D	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	
	C	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
	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	2	2	2	3	3
	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	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						
85854-X126 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3			
	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	2	2	3	3		
	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	2	2	2	3	3	
	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	2	2	2	2	3	3
	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	2	2	2	2	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					
85854-X131 SEE NOTE 10 LEAD FREE OPTION	E	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	
	D	4	4	3	4	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
	C	3	3	3	4	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	4	4	3	4	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	4	4	3	4	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				
85854-X127 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	D	2	2	2	2	2	2	2	2	2	1	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	1	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	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	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				
85854-X132 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-
	C	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-
	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-

mat'l code		--	tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	

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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
85854-X133 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2
	D	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	1
	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	1	1	2	2	2	2	2	2	2	2	2	2

A

A



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B

B

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ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT		
DE					0.XX ±0.13		projection				
				angles	.XXX ±.051				product family METRAL code size dwg no 213 sheet 19		
					0° ±2°						
		dr	T.BRUNGARD	11/19/99	scale		1:1		A 85854		
		enr	M.STRAWSER	11/19/99							
		chr	M.STRAWSER	11/19/99					cage code 22526		
		appd	M.STRAWSER	02/29/00							
sheet index	revision sheet										

1 | 2

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4

Pro/E

PRODUCT NUMBER
85854-XYX OR 85854-XYXX
85854-XYXLF OR 85854-XYXXLF

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:
85854-XYX IS SnPb
85854-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE BELOW.
- 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-XXXXP
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS
AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMIM 140°C FOR
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

PLATING IN CONTACT AREA		NOTES
DASH NUMBER	PERFORMANCE LEVEL	
-PYY OR -PYXX	0.25 um GOLD MIN.	-
-NIYY OR -NIYXX	TELCORDIA CO (NXT)	-
-N5YY OR -N5YXX	TELCORDIA UE (NXT)	-
-IYY OR -IYXX	TELCORDIA CO	-
-2YY OR -2YXX	TELECOM CLASS	-
-3YY OR -3YXX	IEC CLASS I	-
-5YY OR -5YXX	TELCORDIA UE	-
-9YY OR -9YXX	TELCORDIA CO	-
-NIYYLF OR -NIYXXLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 9
-N5YYLF OR -N5YXXLF	TELCORDIA UE (NXT)	SEE NOTE 9
-IYYLF OR -IYXXLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YYLF OR -2YXXLF	TELECOM CLASS	SEE NOTE 9
-5YYLF OR -5YXXLF	TELCORDIA UE	SEE NOTE 9

10. FOR LEAD FREE PART NUMBERS ADD AN "LF" SUFFIX..
EXAMPLE: 85854-X01LF



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ltr	ecr no.	dr	date	linear	0.X ± 0.3		COPY		title METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT		
DE					0.XX ± 0.13		projection				
					.XXX ± .051						
				angles	0° ± 2°				product family METRAL code		
				dr	T.BRUNGARD	11/19/99	MM		size	dwg no	213
				engr	M.STRAWSER	11/19/99	← MM →		A	85854	sheet
				chr	M.STRAWSER	11/19/99	scale		1:1		20
				appd	M.STRAWSER	02/29/00					
sheet index	revision sheet										