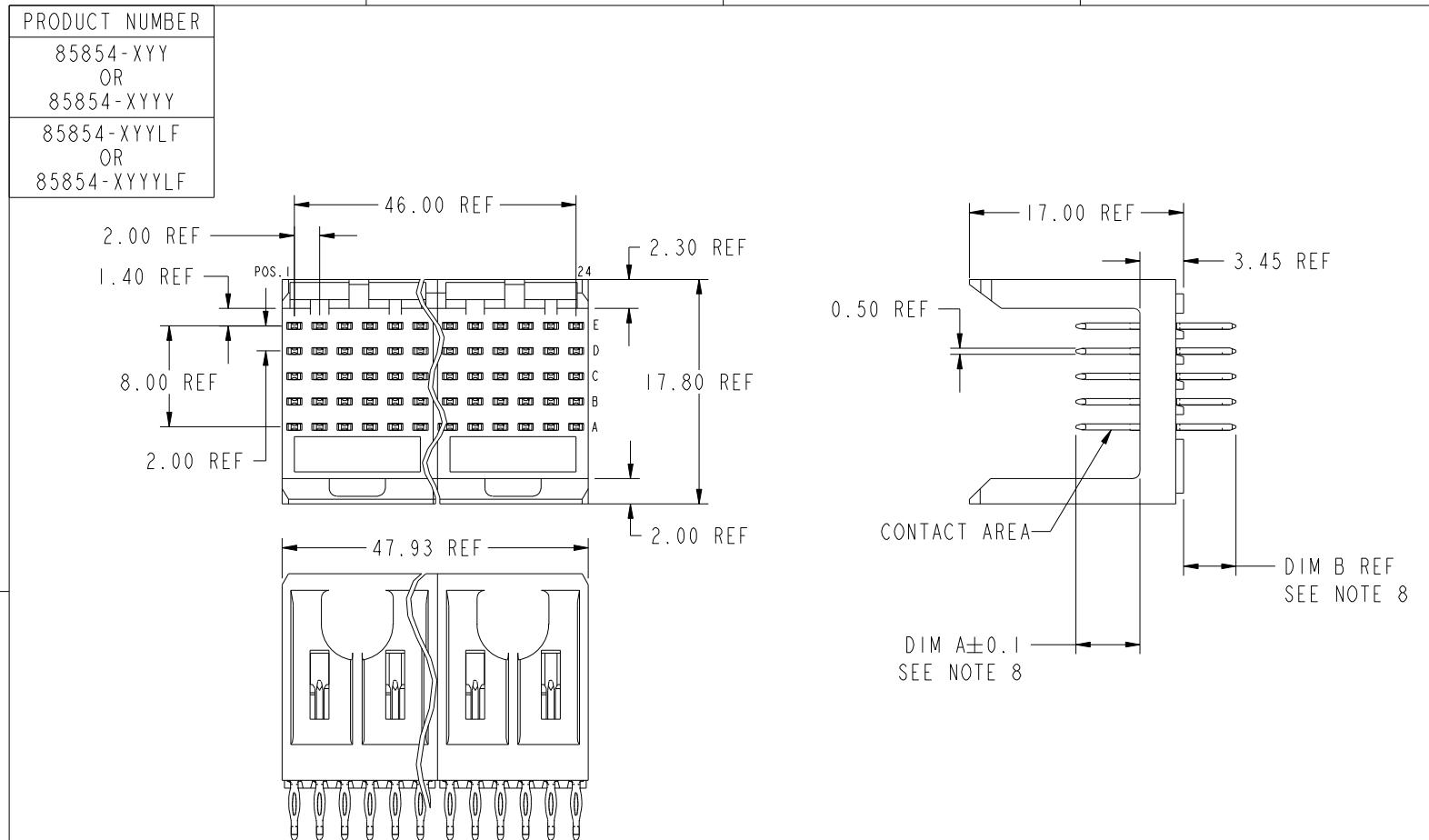




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REV E - 2008-04-18



mat'l code				tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com
lhr	ecn no.	dr	date	0.0 ±0.3			
DE	V06-0492	DCH	2006-05-23	linear	0.0X ±0.13	projection	title
DF	DG07-0487	Cenh	12/05/07		.XXX ±.051		
DG	DG09-0344	TER	2009-11-10	angles	0° ±2°		
-	-	-	-	dr	T.BRUNGARD 11/19/99		
DB	V04-0353	DA1	05/04/04	engr	M.STRAWSER 11/19/99	MM	product family
DC	V04-0560	HTB	06/01/04	chr	M.STRAWSER 11/19/99		
DD	V04-1100	DA1	01/26/05	appd	M.STRAWSER 02/29/00	scale	code
sheet	revision	DG	...	DG	M.STRAWSER	2:1	213
index		sheet	1	...	02/29/00		dwg no
				20			sheet
							A 85854
							1 of 20

1 | 2

Pro/E

3 | 4

cage code  
22526

PDM: Rev:DG

STATUS: Released

Printed: Nov 11, 2009

<p style="text-align: center;">1   2</p> <div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;"> <p style="text-align: center;">REQUIRED PC BOARD LAYOUT COMPONENT SIDE SEE PRINT 58351 FOR ADDITIONAL PCB INFORMATION</p> </div>	<p style="text-align: center;">3   4</p> <div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;"> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">KEY</th> </tr> <tr> <th rowspan="2">CODE</th> <th colspan="2">DIMENSIONS</th> </tr> <tr> <th>DIM "A" MATE</th> <th>DIM "B" TAIL</th> </tr> </thead> <tbody> <tr><td>1</td><td>5.00</td><td>4.30</td></tr> <tr><td>2</td><td>5.75</td><td>4.30</td></tr> <tr><td>3</td><td>6.50</td><td>4.30</td></tr> <tr><td>4</td><td>7.25</td><td>4.30</td></tr> <tr><td>5</td><td>5.00</td><td>13.60</td></tr> <tr><td>6</td><td>5.75</td><td>13.60</td></tr> <tr><td>7</td><td>6.50</td><td>13.60</td></tr> <tr><td>8</td><td>7.25</td><td>13.60</td></tr> <tr><td>9</td><td>5.00</td><td>17.00</td></tr> <tr><td>10</td><td>5.75</td><td>17.00</td></tr> <tr><td>11</td><td>6.50</td><td>17.00</td></tr> <tr><td>16</td><td>7.00</td><td>4.30</td></tr> <tr><td>19</td><td>8.00</td><td>4.30</td></tr> <tr><td>20</td><td>8.00</td><td>13.60</td></tr> <tr><td>21</td><td>8.00</td><td>17.00</td></tr> <tr><td>25</td><td>5.75</td><td>15.60</td></tr> <tr><td>39</td><td>8.00</td><td>14.40</td></tr> <tr><td>44</td><td>5.75</td><td>12.10</td></tr> <tr><td>49</td><td>5.75</td><td>15.10</td></tr> <tr><td>52</td><td>8.00</td><td>15.10</td></tr> <tr><td>54</td><td>5.00</td><td>11.50</td></tr> </tbody> </table> </div>	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
KEY																																																																								
CODE	DIMENSIONS																																																																							
	DIM "A" MATE	DIM "B" TAIL																																																																						
1	5.00	4.30																																																																						
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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																																																																						

**A**

**FCI**

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REV C - 2008-04-18

**B**

mat'l code				tolerances unless otherwise specified		CUSTOMER COPY projection	<b>FCI</b> www.fciconnect.com
lfr	ecn no.	dr	date	0.0X ±0.3			
DG				0.XX ±0.13			
				.XXX ±.051			
				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		revision				scale	
index		sheet					

**1 | 2**

Pro/E

**3 | 4**

cage code 22526

SEE NOTE  
LEAD FRE  
OPTION

METRAL P/N	CONTACT CODE		MOD. 2				MOD. 3				MOD. 4																	
	ROW	MOD. 1	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	1	9	3	1	9	1	9	3	1	9	3	1	9	3	1	9	3	1	9	3	1	9	3	1	9		
	D	3	1	9	1	9	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	1	9	
	C	1	9	3	1	9	1	9	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	
	B	3	1	9	1	9	1	9	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	
	A	1	9	1	9	1	9	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	3	1	9	3	1	9

SEE NOTE  
LEAD FREE  
OPTION

LEAD FRE  
OPTION

SEE NOTE  
LEAD FRE  
OPTION

SEE NOTE  
LEAD FREE  
OPTION

SEE NOTE  
LEAD FREE  
OPTION

LEAD FREE  
OPTION

SEE NOTE  
LEAD FREE  
OPTION

mat'l code - -				tolerances unless otherwise specified		CUSTOMER COPY		www.fciconnect.com
Itr	ecn no.	dr	date	linear	0. X ± 0.3 0. XX ± 0.13 . XXX ± .051			
DG				angles	0° ± 2°	projection	title	METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT
		dr	T. BRUNGARD	11/19/99	MM scale   :	product family size A	METRAL	code 213
		engr	M. STRAWSER	11/19/99			dwg no 85854	sheet 3
		chr	M. STRAWSER	11/19/99				
		appd	M. STRAWSER	02/29/00				
sheet index	revision sheet							
Pro/E					3	cage code	22526	4

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REV E - 2006-04-18

SEE NOTE I  
LEAD FREE  
OPTION

85854-X10  
SEE NOTE 1  
LEAD FREE  
OPTION

85854-XII  
SEE NOTE I  
LEAD FREE  
OPTION

111

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REV E - 2006-04-18

SEE NOTE 1  
LEAD FREE  
OPTION

METRAL P/N	ROW	CONTACT CODE		MOD. 2				MOD. 3				MOD. 4											
		MOD.	I	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	4	2	2	2	1	2
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2

85854-X14  
SEE NOTE 1  
LEAD FREE  
OPTION

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

85854-X15  
SEE NOTE 1  
LEAD FREE  
OPTION

SEE NOTE 1  
LEAD FREE  
OPTION

mat'l code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0. X ± 0.3 0. XX ± 0.13 . XXX ± .051				
DG				angles	0° ± 2°	projection	title	METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT	
				dr	T. BRUNGARD 11/19/99				
				engr	M. STRAWSER 11/19/99	MM	product family	METRAL	code
				chr	M. STRAWSER 11/19/99				
				appd	M. STRAWSER 02/29/00	scale	size	dwg no	213
sheet	revision								
index	sheet					A	85854		sheet
				Pro/E	3	cage	code	22526	4

12

Pro/E

PDM: Rev:DG

STATUS: **Released**

Printed: Nov. 11, 2009



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REV E - 2008-04-18

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	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
85854-X18 SEE NOTE 10 LEAD FREE OPTION	A	3	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	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4											
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	E	6	7	6	7	6	7	6	7	6	7	6	7	6	6	6	6	6	7	6	7	6	7	6	7
85854-X19 SEE NOTE 10 LEAD FREE OPTION	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-X21 SEE NOTE 10 LEAD FREE OPTION	E	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	D	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	C	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	B	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
85854-X22 SEE NOTE 10 LEAD FREE OPTION	A	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

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-X19 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	-	-	2	2	2	2	2	2	52	52	52	52	52	52	52	52	52	52	52	52	
	D	-	-	-	-	-	-	2	2	2	2	2	2	2	52	52	52	52	52	52	52	52	52	52	52	52
	C	-	-	-	-	-	-	2	2	2	2	2	2	2	52	52	52	52	52	52	52	52	52	52	52	52
	B	-	-	-	-	-	-	2	2	2	2	2	2	2	52	52	52	52	52	52	52	52	52	52	52	52
85854-X23 SEE NOTE 10 LEAD FREE OPTION	A	-	-	-	-	-	-	2	2	2	2	2	2	2	52	52	52	52	52	52	52	52	52	52	52	52

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-X20 SEE NOTE 10 LEAD FREE OPTION	E	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	D	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	C	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	B	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
85854-X24 SEE NOTE 10 LEAD FREE OPTION	A	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49

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-X22 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
85854-X23 SEE NOTE 10 LEAD FREE OPTION	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
85854-X19 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	-	-	2</															

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REV E - 2006-04-18

6

12

Pro/E

cage code 22526 4

1

matl code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0. X ± 0.3 0. XX ± 0.13 . XXX ± .051				COPY	
DG				angles	0° ± 2°	projection	title	METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT		
		dr	T. BRUNGARD	11/19/99		 	product family	METRAL	code	
		engr	M. STRAWSER	11/19/99			size	dwg no		213
		chr	M. STRAWSER	11/19/99						sheet
		appd	M. STRAWSER	02/29/00						6
sheet index	revision sheet									
				Pro/E		3	cage code	22526	4	

METRAL P/N	CONTACT CODE		MOD. 2				MOD. 3				MOD. 4														
	ROW	MOD. 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	E	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	2	2	2	2	2	2
	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2
85854-X26 SEE NOTE 10 LEAD FREE OPTION	C	-	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	2	2	2	2	2

METRAL P/N	CONTACT CODE MOD. 1			MOD. 2				MOD. 3				MOD. 4														
	ROW	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	10	10	9	11	10	10	10	10	10	10	10	11	11	9
	D	9	11	10	10	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	11	11	9
	C	9	11	10	10	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	11	11	9
	B	9	11	10	10	10	10	10	10	10	10	10	10	10	9	11	10	10	10	10	10	10	10	11	11	9
	A	1	3	2	2	2	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	3	3	1

METRAL P/N	ROW	CONTACT 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	
	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	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	6	7	7	5
85854-X29 SEE NOTE 10 LEAD FREE OPTION	B	5	7	6	6	6	6	6	6	6	6	6	5	7	6	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	6	7	7	5

METRAL P/N	CONTACT CODE		MOD. 2						MOD. 3						MOD. 4											
	ROW	MOD. 1	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	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	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	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	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	2	1	3	2	2	2	2	2	2	2	2	3	3	1

METRAL P/N	CONTACT CODE						MOD. 2			MOD. 3				MOD. 4											
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	E	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
85854-X31 SEE NOTE 10 LEAD FREE OPTION	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	1	1	
	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	2	4	2	2	2		

2

2	MOD. 3							MOD. 4						
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
6	6	5	7	6	6	6	6	6	6	6	6	7	7	5
6	6	5	7	6	6	6	6	6	6	6	6	7	7	5

		MOD. 3						MOD. 4					
0	1	1	1	2	3	4	1	1	2	1	1	2	1
2	2	1	3	2	2	2	2	2	2	2	3	3	1
2	2	1	3	2	2	2	2	2	2	2	3	3	1
2	2	1	3	2	2	2	2	2	2	2	3	3	1
2	2	1	3	2	2	2	2	2	2	2	3	3	1
2	2	1	3	2	2	2	2	2	2	2	3	3	1

		MOD. 3					MOD. 4								
0	1	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	-	2	-	2	-	2	-	2	2	4	2	2	2	2	
-	-	-	-	-	-	-	-	-	2	4	2	2	2	2	
2	-	2	-	4	-	2	-	2	2	2	4	4	4	4	
-	-	-	-	-	-	-	-	-	2	2	4	4	1	1	
2	-	2	-	2	-	2	-	2	2	4	2	2	2		

A

2

METRAL P/N	CONTACT CODE				MOD. 2				MOD. 3				MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	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	1	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2
85854-X33	C	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2
SEE NOTE 10 LEAD FREE OPTION	B	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2

SEE NOTE  
LEAD FRE  
OPTION

85854-X3  
SEE NOTE  
LEAD FRE

85854-X3

METRAL P/N	ROW	CONTACT CODE			MOD. 2				MOD. 3				MOD. 4												
		MOD.	1	MOD.	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	39	54	5	
	D	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	5
	C	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	5
	B	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	5
	A	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	39	54	5

5

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LEAD FR  
OPTION

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-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	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	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	4	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	1	4	4	4	4	4

85854-X3  
SEE NOTE  
LEAD FR

85854-X3

85854-X4  
SEE NOTE  
LEAD FREE  
OPTION

mat'l code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0. X $\pm$ 0.3 0. XX $\pm$ 0.13 0. XXX $\pm$ .051					
DG				angles	0° $\pm$ 2°	projection	title	METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT		
				dr	T. BRUNGARD 11/19/99	MM scale 1 : 1	product family	METRAL	code	
				engr	M. STRAWSER 11/19/99		size	dwg no		213
				chr	M. STRAWSER 11/19/99					sheet
				appd	M. STRAWSER 02/29/00				A 85854	7
sheet index	revision sheet									
Pro/E				3	cage code	22526	4			

12

Pro/E

PDM: Rev:DG

STATUS: **Released**

Printed: Nov. 11, 2009

SEE NOTE  
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OPTION

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LEAD FREE  
OPTION

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LEAD FREE  
OPTION

METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3						MOD. 4									
	ROW	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	20	7	20	7	20	20	20	20	20
	D	8	20	8	20	8	20	8	20	20	7	7	20	20	7	20	7	20	7	20	20	7	20	7	20
	C	20	20	20	20	20	20	8	20	20	7	7	20	20	20	20	20	7	20	7	20	20	20	20	20
	B	7	20	7	20	7	20	7	20	7	7	20	20	20	7	20	20	20	20	20	20	20	20	20	20
	A	20	7	7	7	7	7	7	7	7	7	20	20	20	20	20	20	7	20	7	20	7	20	7	20

SEE NOTE  
LEAD FREE  
OPTION

METRAL P/N	CONTACT CODE		MOD. 2				MOD. 3				MOD. 4															
	ROW	MOD. 1	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	19	3	3	19	19	19	19	19	3	19	3	19	19	19	19	19	19
	D	4	19	4	19	4	19	4	19	19	3	3	19	19	3	19	3	19	3	19	19	3	19	3	19	19
	C	19	19	19	19	19	19	4	19	19	3	3	19	19	19	19	19	3	19	3	19	19	19	19	19	19
	B	3	19	3	19	3	19	3	19	3	3	19	19	19	3	19	19	19	19	19	19	19	19	19	19	19
	A	19	3	3	3	3	3	3	3	3	19	19	19	19	19	19	19	3	19	3	3	19	19	19	19	19

SEE NOTE  
LEAD FR  
OPTION

SEE NOTE  
LEAD FR  
OPTION

SEE NOTE  
LEAD FR  
OPTION

SEE NOTE  
LEAD FR  
OPTIO

mat'l code --				tolerances unless otherwise specified		CUSTOMER COPY	FCI	www.fciconnect.com
Itr	ecn no.	dr	date	linear	0. X ± 0.3			
DG					0. XX ± 0.13	projection		
					.XXX ± .051			
				angles	0° ± 2°			
				dr	T. BRUNGARD	11/19/99	product	METRAL
				engr	M. STRAWSER	11/19/99	family	code
				chr	M. STRAWSER	11/19/99	size	213
				oppd	M. STRAWSER	02/29/00	dwg no	
sheet	revision					scale	A	sheet
index	sheet					1 : 1	85854	8
	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-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	1	
85854-X50 SEE NOTE 10 LEAD FREE OPTION	METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	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	1
	D	3	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	1
	B	3	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
85854-X51 SEE NOTE 10 LEAD FREE OPTION	METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	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	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	4	4	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	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-X52 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	2	2	
	D	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	C	1	1	2	2	2	2	1	1	2	2	2	2	1	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
85854-X53 SEE NOTE 10 LEAD FREE OPTION	METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	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	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	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	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	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
85854-X54 SEE NOTE 10 LEAD FREE OPTION	METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	E	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	D	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	A	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
85854-X55 SEE NOTE 10 LEAD FREE OPTION	METRAL P/N	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 4												
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	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	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	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					
lfr	ecn no.	dr	date	0.0 ±0.3				COPY					
DG				0.00 ±0.13				projection					
				.XXX ±.051				title					
				0° ±2°				METRAL SIGNAL HEADER					
				dr	T. BRUNGARD	11/19/99		MM	4 MOD, 5 ROW PRESS-FIT				
				engr	M. STRAWSER	11/19/99	scale		product family METRAL				
				chr	M. STRAWSER	11/19/99	appd	M. STRAWSER	02/29/00	code 213			
				index				A	85854	dwg no 9			
				sheet									
				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
85854-X57 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
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1
	B	-	-	-	1	1	-	1	1	-	1	-	-	-	1	1	-	1	1	-	1	1	1	1
85854-X58 SEE NOTE 10 LEAD FREE OPTION	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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
85854-X59 SEE NOTE 10 LEAD FREE OPTION	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
85854-X60 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
	D	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85854-X61 SEE NOTE 10 LEAD FREE OPTION	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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	2	2	2	2	2	2	4	2	2	2	2	2	1	2	2	2	2	4	2	2	2	2
85854-X62 SEE NOTE 10 LEAD FREE OPTION	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
85854-X63 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
	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
85854-X64 SEE NOTE 10 LEAD FREE OPTION	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	E	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
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
85854-X65 SEE NOTE 10 LEAD FREE OPTION	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	1	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	COPY	projection	title		
lfr	ecn no.	dr	date	0.0 ±0.3									
DG				0.0X ±0.13									
				.XXX ±.051									
				0° ±2°									
				dr	T.BRUNGARD	11/19/99		MM	product family	METRAL	code		
				engr	M.STRAWSER	11/19/99	← →		size	dwg no	213		
				chr	M.STRAWSER	11/19/99	← →	scale					
				appd	M.STRAWSER	02/29/00	↑ ↓		A	85854	sheet		
sheet	revision										10		
index	sheet												
I   2				Pro/E				3   22526				4	
PDM: Rev:DG				STATUS: Released								Printed: Nov 11, 2009	

METRAL P/N	ROW	CONTACT CODE				MOD. 2				MOD. 3				MOD. 4			
		MOD. 1	MOD. 2	MOD. 3	MOD. 4	MOD. 1	MOD. 2	MOD. 3	MOD. 4	MOD. 1	MOD. 2	MOD. 3	MOD. 4	MOD. 1	MOD. 2	MOD. 3	MOD. 4
	E	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
85854-X66 SEE NOTE 10 LEAD FREE OPTION	C	2	2	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	-	-

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REV E - 2006-04-11

mat'l code				tolerances unless otherwise specified		CUSTOMER	FCI	www.fciconnect.com		
Itr	ecn no.	dr	date	linear	0. X ± 0.3 0. XX ± 0.13 . XXX ± .051			COPY	projection	title
DG				angles	0° ± 2°					
				dr	T. BRUNGARD 11/19/99	MM		product family	METRAL	code
				engr	M. STRAWSER 11/19/99			size	dwg no	213
				chr	M. STRAWSER 11/19/99					sheet
				oppd	M. STRAWSER 02/29/00					11
sheet index	revision					scale	A	85854		
	sheet									
Pro/E					3		code	code	22526	4



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REV E - 2008-04-18

		1   2												3   4																																				
METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 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	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	1	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	E	2	-	2	-	2	-	2	-	2	-	2	2	4	2	2	2	2	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	2	D	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	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	2	4	2	2	2	2	2	2	2	C	2	-	4	-	2	-	2	-	2	-	4	-	2	-	2	2	2	4	4	4	4	4	
	B	2	2	2	2	2	4	2	2	2	3	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	B	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	4	1	1	1	1	1	
	A	2	2	2	2	2	4	2	2	2	3	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	4	2	2	2	2	2	2	
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	2	E	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	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	2	D	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	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	2	C	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	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	B	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	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	3	A	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2		
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	1	E	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1		
	D	3	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	D	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2			
	C	3	19	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			
	B	3	19	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	2	2	2	2	2	2	2	2	2	2	2	2	2			
	A	3	19	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			
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	E	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	D	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	D	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
	C	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	C	1	1	1	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
	B	3	3	3	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	B	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2				
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	A	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
85854-X80 SEE NOTE 10 LEAD FREE OPTION	lfr	ecn no.	dr	date	mat'l code												tolerances unless otherwise specified												CUSTOMER			FCI			www.fciconnect.com															
	DG																0. X ±0.3												COPY																					
																	0. XX ±0.13												projection																					
																	.XXX ±.051																																	
																	0° ±2°												MM																					
85854-X80 SEE NOTE 10 LEAD FREE OPTION	dr																T. BRUNGARD 11/19/99												CUSTOMER																					
	engr																M. STRAWSER 11/19/99												title			METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT																		
	chr																M. STRAWSER 11/19/99												product family			METRAL																		
	appd																02/29/00												code			213																		
	sheet																A												dwg no			85854																		



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REV E - 2008-04-18

		1   2												3   4																																				
METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 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	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	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	E	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
	D	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	D	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
	C	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	C	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
	B	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	B	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
	A	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	A	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	
85854-X82 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	2	2	2	2	2	2	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	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	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	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	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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	19	19	19	19	19	19	19	19	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	D	4	19	3	19	3	19	3	19	19	1	1	19	19	19	19	19	19	19	19	19	19	19	19	19	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	1	19	19	19	19	19	3	19	19	1	1	19	19	19	19	19	19	19	19	19	19	19	19	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	B	4	19	4	19	1	19	1	1	19	19	19	1	19	19	19	19	19	19	19	19	19	19	19	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	19	1	1	1	1	1	1	1	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
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	2	E	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	D	4	-	-	3	3	4	4	3	4	3	4	4	4	4	4	4	2	2	4	2	2	4	2	2	D	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	4	-	-	3	3	4	4	3	4	3	4	2	2	2	4	2	2	4	2	2	4	2	2	4	C	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	4	-	-	3	3	4	4	3	4	3	4	2	2	2	4	2	2	4	2	2	4	2	2	4	B	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	4	-	-	3	3	4	4	3	4	3	4	2	2	2	4	2	2	4	2	2	4	2	2	4	A	5	5	5	5	5	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			
lhr	ecn no.	dr	date	0. X ±0.3				COPY		projection		title			
DG				0. XX ±0.13								METRAL SIGNAL HEADER			
				.XXX ±.051								4 MOD, 5 ROW PRESS-FIT			
				0° ±2°											
				dr	T. BRUNGARD	11/19/99		MM		product family		METRAL			
				engr	M. STRAWSER	11/19/99		scale		code		213			
				chr	M. STRAWSER	11/19/99		appd		dwg no		85854			
								M. STRAWSER		sheet		13			
				sheet	revision			02/29/00		index					
				index	sheet										
3   2				Pro/E				3   4				cage code 22526			



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Rev E - 2008-04-18

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	8	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	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	7	20	7	7	7	7	7	7	7	7	7	7	7
	D	20	7	7	7	7	7	20	7	7	7	7	7	20	7	7	7	7	7	7	7	7	7	7	7
	C	20	7	7	7	7	7	20	7	7	7	7	7	20	7	7	7	7	7	7	7	7	7	7	7
	B	20	7	7	7	7	7	20	7	7	7	7	7	20	7	7	7	7	7	7	7	7	7	7	7
	A	20	7	7	7	7	7	20	7	7	7	7	7	20	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	24
85854-X93 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3
	D	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3
	C	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3
	B	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3
	A	19	3	3	3	3	3	19	3	3	3	3	3	19	3	3	3	3	3	19	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-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
	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	20	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	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		



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METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
85854-X97 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	2	1	1	2	2	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	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	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	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	2	2	2	2	2	2	2	2	2									
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	3	3	3	3	3	3	3	3	3	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	3	3	3	3	3	3	3	3	3	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	4	3	3	3	3	3	3	3	3	3	3	3	3	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	3	3	3	3	3	3	3	3	3	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	3	3	3	3	3	3	3	3	3	3	3	3	3									
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	3	4	3	4	3	4	3	4	3	4	3	4	3									
	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	3	4	3	4	3	4	3	4	3	4	3	4	3									
	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	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	2	4	2	4	2	4	2	4	2	4	2	4	2									
	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	2	4	2	4	2	4	2	4	2	4	2	4	2									
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	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	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	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	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	6	8	6	8	6	8	6	8	6	8	6	8										

mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI		www.fciconnect.com			
lhr	ecn no.	dr	date	0.0 $\pm$ 0.3				COPY		projection		METRAL SIGNAL HEADER 4 MOD, 5 ROW PRESS-FIT			
DG				0.0X $\pm$ 0.13											
				.XXX $\pm$ .051											
				0° $\pm$ 2°											
				dr	T. BRUNGARD	11/19/99		MM		product family		METRAL		code	
				engr	M. STRAWSER	11/19/99		--		size		dwg no		213	
				chr	M. STRAWSER	11/19/99		--		scale		A		85854	
				appd	M. STRAWSER	02/29/00		--		sheet		15			
sheet	revision														
index	sheet														

B

1 | 2

Pro/E

3

cage code  
22526

4

SEE NOT  
LEAD F  
OPTION

SEE NOTE  
LEAD FR  
OPTIC

A



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LEAD FR  
OPTION

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OPTION

1

METRAL P/N	CONTACT CODE			MOD. 2				MOD. 3				MOD. 4													
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	E	7	20	7	20	7	20	7	20	20	5	5	20	20	20	20	20	5	20	5	20	20	20	20	20
	D	8	20	7	20	7	20	7	20	20	5	5	20	20	8	20	5	20	5	20	20	5	20	5	20
85854-X107	C	5	20	20	20	20	20	7	20	20	5	5	20	20	20	20	20	5	20	5	20	20	20	20	20
SEE NOTE 10 LEAD FREE OPTION	B	8	20	8	20	5	20	5	20	5	5	20	20	20	5	20	20	20	20	20	20	20	20	20	20
	A	20	5	5	5	5	5	5	5	5	5	20	20	20	20	20	20	5	20	5	20	5	20	5	20

LEAD F  
OPTION

85854-X  
SEE NOTE  
LEAD FR  
OPTIC

mat'l code				tolerances unless otherwise specified		CUSTOMER	FCI	www.fciconnect.com					
Itr	ecn no.	dr	date	0. X ± 0.3	projection								
DG				0. XX ± 0.13		METRAL SIGNAL HEADER							
				. XXX ± .051		4 MOD, 5 ROW PRESS-FIT							
				0° ± 2°									
		dr	T. BRUNGARD	11/19/99		product	family	METRAL	code				
		engr	M. STRAWSER	11/19/99		scale	A	dwg no	85854	213			
		chr	M. STRAWSER	11/19/99									
		oppd	M. STRAWSER	02/29/00									
sheet index	revision								16				
	sheet												
Pro/E				3	cage code		22526	4					

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Pro/E

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PDM: Rev:DG

STATUS: **Released**

Printed: Nov 11, 2009

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METRAL P/N	CONTACT CODE MOD. 1						MOD. 2				MOD. 3				MOD. 4										
	ROW	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-XI13 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
85854-XI14 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
85854-XI15 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
85854-XI16 SEE NOTE 10 LEAD FREE OPTION	E	2	4	4	2	19	6	6	6	6	6	2	19	2	2	2	2	6	6	6	6	6	2	1	2
	D	2	4	4	2	19	6	6	6	6	6	2	19	2	2	2	2	6	6	6	6	6	2	3	2
	C	2	4	4	2	19	6	6	6	6	6	2	19	2	2	2	2	6	6	6	6	6	2	2	2
	B	2	4	4	2	19	6	6	6	6	6	2	19	2	2	2	2	6	6	6	6	6	2	2	2
	A	2	4	4	2	19	6	6	6	6	6	2	19	2	2	2	2	6	6	6	6	6	2	2	2
85854-XI17 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	6	6	6	2	6	2	2	2	2	2	2	2	6	6	6	6	6	2	2	2	2
	D	2	2	2	6	6	6	2	6	2	2	2	2	2	2	2	6	6	6	6	6	2	2	2	2
	C	2	2	2	6	6	6	2	6	2	2	2	2	2	2	2	6	6	6	6	6	2	2	2	2
	B	2	2	2	6	6	6	2	6	2	2	2	2	2	2	2	6	6	6	6	6	2	2	2	2
	A	2	2	2	6	6	6	2	6	2	2	2	2	2	2	2	6	6	6	6	6	2	2	2	2

METRAL P/N	CONTACT CODE		MOD. 2				MOD. 3				MOD. 4														
	MOD.	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	2	19	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	2	2	1	2
	D	2	4	4	2	19	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	2	3	2
	C	2	4	4	2	19	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	4	4	2	19	2	2	2	19	2	2	19	2	2	2	2	2	2	2	19	2	2	2	2
	A	2	4	4	2	19	2	2	2	2	2	19	2	2	2	2	2	2	2	2	2	2	2	2	2
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	2	19	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
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	19	19	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
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	-
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	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	5	5	6	6	7	7
	C	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	5	5	6	6	7	7
	B	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	5	5	6	6	7	7
	A	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	5	5	6	6	7	7

mat'l code				tolerances unless otherwise specified		CUSTOMER COPY	 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0. X $\pm$ 0.3			
DG				linear	0. XX $\pm$ 0.13	projection	title	
				angles	. XXX $\pm$ .051			
				angles	0° $\pm$ 2°		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			size	dwg no
		chr	M. STRAWSER	11/19/99	scale	A	85854	sheet
		appd	M. STRAWSER	02/29/00				1 : 1
sheet index	revision sheet							
Pro/E				3	cage code	22526	4	

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		1   2												3   4																																								
METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2			MOD. 3			MOD. 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	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	2	2	3	3	E	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-		
	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	D	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	
	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	3	3	C	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-		
	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	B	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	
	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	A	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-	64	-		
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	2	3	3	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	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	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	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	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	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
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	E	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	
	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	D	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	C	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	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	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	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	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		
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	3	3	E	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
	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	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		
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	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			
	B	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	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			
	A	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	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
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	E	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	D	-	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	C	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	B	-	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	A	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-			

mat'l code				tolerances unless otherwise specified				CUSTOMER			
lfr	ecn no.	dr	date	0. X ±0.3				projection			
DG				0. XX ±0.13				title METRAL SIGNAL HEADER			
				. XXX ±.051				4 MOD, 5 ROW PRESS-FIT			
				0° ±2°				product family METRAL			
				dr	T. BRUNGARD	11/19/99	scale	213	code		
				engr	M. STRAWSER	11/19/99	appd	85854	dwg no		
				chr	M. STRAWSER	11/19/99	02/29/00		sheet		
				sheet					18		
				index							

1 | 2 Pro/E 3 | 4 cage code 22526



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		1   2												3   4																							
METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2				MOD. 3				MOD. 4				ROW	3   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-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	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	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	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	2	2	2	2				
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
85854-X134 SEE NOTE 10 LEAD FREE OPTION	E	2	1	2	1	1	3	1	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	D	2	1	2	1	1	3	1	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	C	2	1	2	1	1	3	1	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	B	2	1	2	1	1	3	1	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	A	2	1	2	1	1	3	1	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
85854-X135 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	7	7	8	7	20	7	7	7	7	7	7	7	7	7	7			
	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	7	7	20	7	7	8	7	20	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	20	7	7	20	7	7	8	7	20	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	20	7	7	20	7	7	8	7	20	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	6	6	6	7	7	20	7	7	8	7	20	7	7	7	7	7	7	7	7
85854-X136 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	19	3	3	4	3	19	3	3	4	3	19	3	3	4	3	19
	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	19	3	3	4	3	19	3	3	4	3	19	3	3	4	3	19
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19	3	3	19	3	3	4	3	19	3	3	4	3	19	3	3	4	3	19
	B	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	19	3	3	19	3	3	4	3	19	3	3	4	3	19	3	3	4	3	19
	A	3	3	3	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	2	2	2	2	2

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

B

1 | 2

Pro/E

3

cage code

22526

4

PDM: Rev:DG

STATUS: Released

Printed: Nov 11, 2009

B

PRODUCT NUMBER
85854-XYY
OR
85854-XXXX
85854-XYYLF
OR
85854-XXXXLF

## NOTES:

1. FOR DIM A AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.
3. PIN MATERIAL:  
PHOSPHOR BRONZE.
4. PLATING ON PRESS-FIT TAIL:  
85854-XYY IS SnPb  
85854-XYYLF IS Sn (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.

5. PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.

6. 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

7. PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073

8. AFTER INSERTION INTO CIRCUIT BOARD WITH  
QUALIFIED TOOL.

9. 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.)-NI--- 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.)-NI--- AND (DRAWINGS NO.)-N5--- WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

PLATING IN CONTACT AREA		NOTES
DASH NUMBER	PERFORMANCE LEVEL	-
-PYY OR -PYYY	0.25 um GOLD MIN.	-
-NIYY OR -NIYYY	TELCORDIA CO (NXT)	-
-N5YY OR -N5YYY	TELCORDIA UE (NXT)	-
-IYY OR -IYYY	TELCORDIA CO	-
-2YY OR -2YYY	TELECOM CLASS	-
-3YY OR -3YYY	IEC CLASS I	-
-5YY OR -5YYY	TELCORDIA UE	-
-NIYYLF OR -NIYYYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 9
-N5YYLF OR -N5YYYLF	TELCORDIA UE (NXT)	SEE NOTE 9
-IYYLF OR -IYYYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YYLF OR -2YYYYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF OR -5YYYYLF	TELCORDIA UE	SEE NOTE 9

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



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mat'l code				tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com
lfr	ecn no.	dr	date	linear	angles		
DG				0. X ±0.3	0. XX ±0.13	projection	title METRAL SIGNAL HEADER
					.XXX ±.051		4 MOD, 5 ROW PRESS-FIT
				dr	0° ±2°	MM	product family METRAL
				engr	T.BRUNGARD 11/19/99		code 213
				chr	M.STRAWSER 11/19/99	scale	size dwg no
				appd	M.STRAWSER 02/29/00	1 : 1	A 85854
sheet	revision						sheet 20
index	sheet						

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