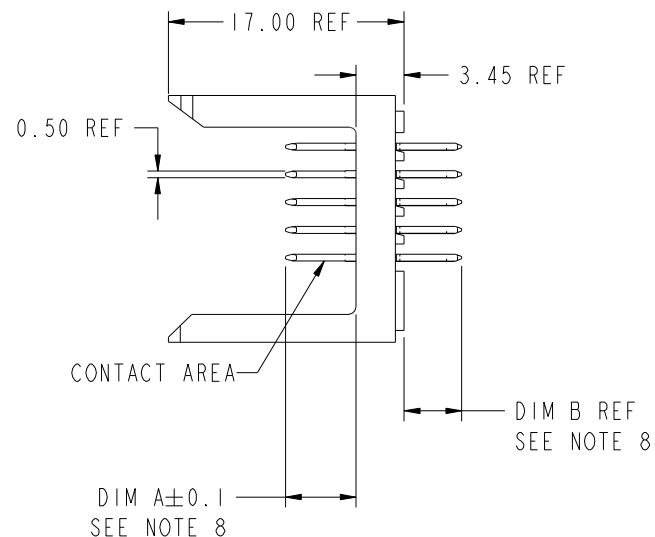
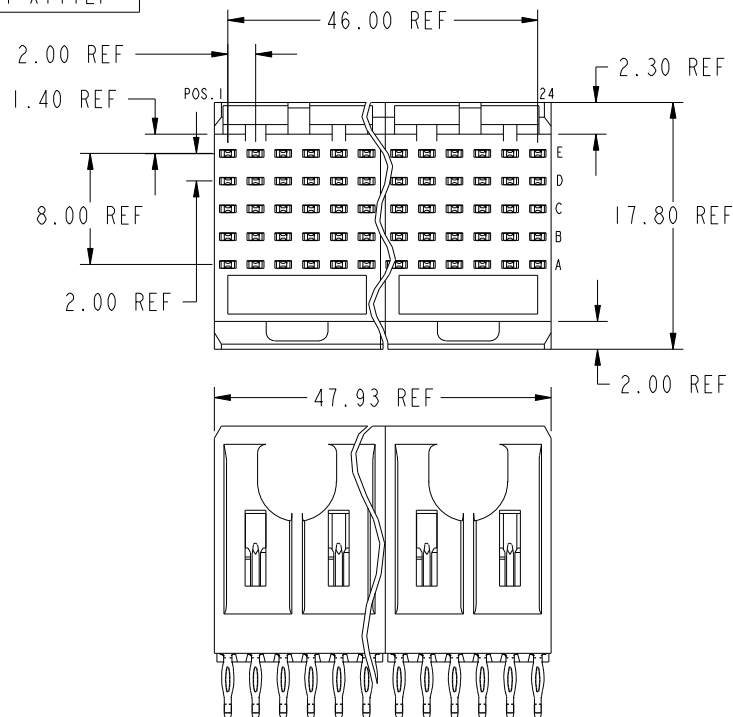




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| PRODUCT NUMBER                    |
|-----------------------------------|
| 85854-XXX<br>OR<br>85854-YYYY     |
| 85854-XXYLF<br>OR<br>85854-XXYYLF |



| mat'l code |           |      |            | tolerances unless otherwise specified |                     | CUSTOMER   |   | FCI                        |  |
|------------|-----------|------|------------|---------------------------------------|---------------------|------------|---|----------------------------|--|
| ltr        | ecn no.   | dr   | date       |                                       | 0.X ± 0.3           | COPY       |   | www.fciconnect.com         |  |
| DE         | V06-0492  | DCH  | 2006-05-23 | linear                                | 0.XX ± 0.13         | projection |   | title METRAL SIGNAL HEADER |  |
| DF         | DG07-0487 | Cenh | 12/05/07   |                                       | .XXX ± .051         |            |   | 4 MOD, 5 ROW PRESS-FIT     |  |
| DG         | DG09-0344 | TER  | 2009-11-10 | angles                                | 0° ± 2°             |            |   | product family METRAL      |  |
| -          | -         | -    | -          | dr                                    | T.BRUNGARD 11/19/99 | MIM        |   | code 213                   |  |
| DB         | V04-0353  | DAI  | 05/04/04   | enrg                                  | M.STRAWSER 11/19/99 |            |   | size                       |  |
| DC         | V04-0560  | HTB  | 06/01/04   | chr                                   | M.STRAWSER 11/19/99 | scale      |   | dwg no 85854               |  |
| DD         | V04-1100  | DAI  | 01/26/05   | appd                                  | M.STRAWSER 02/29/00 | 2:1        | A | sheet 1 of 20              |  |
| sheet      | revision  | DG   | ...        | DG                                    |                     |            |   |                            |  |
| index      | sheet     | I    | ...        | 20                                    |                     |            |   |                            |  |

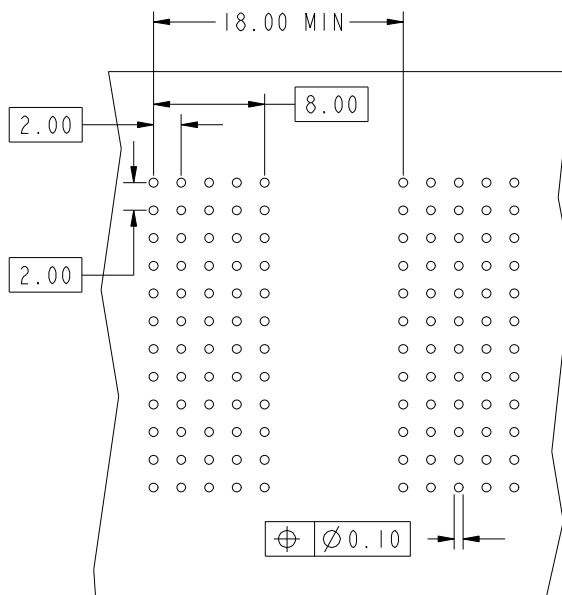


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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

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| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>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           |

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|             |                |    |      |        |            |                                          |      |            |       |                |                                                |                    |      |   |       |       |
|-------------|----------------|----|------|--------|------------|------------------------------------------|------|------------|-------|----------------|------------------------------------------------|--------------------|------|---|-------|-------|
| mat'l code  |                |    |      | - -    |            | tolerances unless<br>otherwise specified |      | CUSTOMER   |       | FCI            |                                                | www.fciconnect.com |      |   |       |       |
| ltr         | ecn no.        | dr | date | linear | 0.X ±0.3   |                                          |      | COPY       |       | title          | METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |                    |      |   |       |       |
| DG          |                |    |      |        | 0.XX ±0.13 |                                          |      | projection |       |                |                                                |                    |      |   |       |       |
|             |                |    |      |        | .XXX ±.051 |                                          |      |            |       |                |                                                |                    |      |   |       |       |
|             |                |    |      | angles | 0° ±2°     |                                          |      |            | scale | product family | METRAL                                         |                    | code |   |       |       |
|             |                |    |      | dr     | T.BRUNGARD | 11/19/99                                 | size |            |       |                | dwg no                                         | 213                |      |   |       |       |
|             |                |    |      | enrg   | M.STRAWSER | 11/19/99                                 |      |            |       |                |                                                |                    |      | A | 75854 | sheet |
|             |                |    |      | chr    | M.STRAWSER | 11/19/99                                 |      |            |       |                |                                                |                    |      |   |       |       |
|             |                |    |      | appd   | M.STRAWSER | 02/29/00                                 |      |            |       |                |                                                |                    |      |   |       |       |
| sheet index | revision sheet |    |      |        |            |                                          |      |            |       |                |                                                |                    |      |   |       |       |

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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                     | 3  | 19 | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3  | 19 | 3  | 19 |
|                                                 | D   | 3                      | 19 | 19 | 19 | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |
|                                                 | C   | 19                     | 3  | 19 | 19 | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |
|                                                 | B   | 3                      | 19 | 19 | 19 | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |
|                                                 | A   | 19                     | 19 | 19 | 19 | 19 | 3      | 19 | 3  | 19 | 3  | 19     | 3  | 19 | 3  | 19 | 3      | 19 | 3  | 19 | 3  | 19 | 3  | 19 | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 19 | 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  |

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

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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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-X10<br>SEE NOTE 10<br>LEAD FREE<br>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                      | 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  | 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<br>P/N                                   | ROW | CONTACT CODE<br>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-X11<br>SEE NOTE 10<br>LEAD FREE<br>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   | 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   | 5                      | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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   | 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  |

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

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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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-X18<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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  |
|                                                 | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | -                      | - | - | - | - | 2      | 2 | 2 | 2 | 2  | 2      | 52 | 52 | 52 | 52 | 52     | 52 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | -                      | - | - | - | - | 2      | 2 | 2 | 2 | 2  | 2      | 52 | 52 | 52 | 52 | 52     | 52 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | -                      | - | - | - | - | 2      | 2 | 2 | 2 | 2  | 2      | 52 | 52 | 52 | 52 | 52     | 52 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | B   | -                      | - | - | - | - | 2      | 2 | 2 | 2 | 2  | 2      | 52 | 52 | 52 | 52 | 52     | 52 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | -                      | - | - | - | - | 2      | 2 | 2 | 2 | 2  | 2      | 52 | 52 | 52 | 52 | 52     | 52 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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 |
|                                                 | 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 |

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

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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 2  | 2  |
|                                                 | B   | -                      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | -                      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | -      | 2  | -  | 2  | -  | 2      | -  | 2  | -  | 2  | 2  | 2  | 2  | 2  |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 6  | 6  |
|                                                 | B   | -                      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | -                      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | -      | 6  | -  | 6  | -  | 6      | -  | 6  | -  | 6  | 6  | 6  | 6  | 6  |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 3  |

| mat'l code |          |    |      | tolerances unless<br>otherwise specified |                     | CUSTOMER   |       | FCI                   |        |
|------------|----------|----|------|------------------------------------------|---------------------|------------|-------|-----------------------|--------|
| ltr        | ecn no.  | dr | date | linear                                   | 0.X ±0.3            | projection | COPY  | www.fciconnect.com    |        |
| DG         |          |    |      |                                          | 0.XX ±0.13          |            |       |                       |        |
|            |          |    |      |                                          | .XXX ±.051          |            |       |                       |        |
|            |          |    |      | angles                                   | 0° ±2°              | MIM        | scale | product family METRAL |        |
|            |          |    |      | dr                                       | T.BRUNGARD 11/19/99 |            |       |                       |        |
|            |          |    |      | engr                                     | M.STRAWSE 11/19/99  |            |       |                       |        |
|            |          |    |      | chr                                      | M.STRAWSE 11/19/99  | 1:1        | A     | size                  | dwg no |
|            |          |    |      | appd                                     | M.STRAWSE 02/29/00  |            |       |                       |        |
| sheet      | revision |    |      |                                          |                     |            |       | code                  | 213    |
| index      | sheet    |    |      |                                          |                     |            |       |                       |        |

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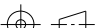
B

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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 | 3      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 3  | 3  | 3  | 2  | 2  |
|                                                 | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 3  | 3  | 3  | 2  | 2  |
|                                                 | 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  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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-X34<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3  | 3 | 3 | 3  | 3      | 3 | 19 | 3  | 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  | 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  | 3  | 4  |
|                                                 | B   | 3                      | 19 | 3 | 3 | 19 | 3      | 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  | 3  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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-X35<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 19 | 19     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 19 |
|                                                 | D   | 4                      | 4 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 19 | 19     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 19 |
|                                                 | C   | 4                      | 4 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 19 | 19     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 19 |
|                                                 | B   | 4                      | 4 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 19 | 19     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 19 |
|                                                 | A   | 4                      | 4 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 19 | 19     | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 54                     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 39 | 54 | 54 | 54 |
|                                                 | D   | 54                     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 39 | 54 | 54 | 54 |
|                                                 | C   | 54                     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 39 | 54 | 54 | 54 |
|                                                 | B   | 54                     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 39 | 54 | 54 | 54 |
|                                                 | A   | 54                     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 54     | 54 | 54 | 54 | 54 | 39 | 54 | 54 | 54 |

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

|           |  |  |  |       |  |  |  |   |  |  |  |
|-----------|--|--|--|-------|--|--|--|---|--|--|--|
| cage code |  |  |  | 22526 |  |  |  | 4 |  |  |  |
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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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-X50<br>SEE NOTE 10<br>LEAD FREE<br>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   | 3                      | 1 | 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  | 1  |
|                                                 | B   | 3                      | 1 | 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  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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-X51<br>SEE NOTE 10<br>LEAD FREE<br>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                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 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  |
|                                                 | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 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      | 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      | 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  | 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  |

|            |          |    |      |                                          |                     |  |  |          |                                                                                       |                                                                                                          |                        |        |        |       |   |  |  |
|------------|----------|----|------|------------------------------------------|---------------------|--|--|----------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------|--------|--------|-------|---|--|--|
| mat'l code |          |    |      | tolerances unless<br>otherwise specified |                     |  |  | CUSTOMER |                                                                                       |  www.fciconnect.com |                        |        |        |       |   |  |  |
| ltr        | ecn no.  | dr | date | linear                                   | 0.X ±0.3            |  |  |          | COPY                                                                                  |                     | title                  |        |        |       |   |  |  |
| DG         |          |    |      |                                          | 0.XX ±0.13          |  |  |          | projection                                                                            |                                                                                                          | METRAL SIGNAL HEADER   |        |        |       |   |  |  |
|            |          |    |      |                                          | .XXX ±.051          |  |  |          |                                                                                       |                                                                                                          | 4 MOD, 5 ROW PRESS-FIT |        |        |       |   |  |  |
|            |          |    |      | angles                                   | 0° ±2°              |  |  |          |  |                                                                                                          | product family         |        | METRAL | code  |   |  |  |
|            |          |    |      | dr                                       | T.BRUNGARD 11/19/99 |  |  |          |                                                                                       |                                                                                                          | size                   | dwg no |        | 213   |   |  |  |
|            |          |    |      | engr                                     | M.STRAWSE 11/19/99  |  |  |          |                                                                                       |                                                                                                          | A                      | 85854  |        | sheet |   |  |  |
|            |          |    |      | chr                                      | M.STRAWSE 11/19/99  |  |  |          | scale                                                                                 |                                                                                                          |                        |        |        |       | 9 |  |  |
|            |          |    |      | appd                                     | M.STRAWSE 02/29/00  |  |  |          | 1:1                                                                                   |                                                                                                          |                        |        |        |       |   |  |  |
| sheet      | revision |    |      |                                          |                     |  |  |          |                                                                                       |                                                                                                          |                        |        |        |       |   |  |  |
| index      | sheet    |    |      |                                          |                     |  |  |          |                                                                                       |                                                                                                          |                        |        |        |       |   |  |  |

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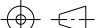
B

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | -                      | 1 | 1 | - | - | -      | - | - | - | -  | -      | -  | 1  | 1  | -  | -      | -  | -  | -  | 1  | 1  | -  | 1  | 1  |
|                                                 | D   | -                      | 1 | 1 | - | - | -      | - | - | - | -  | -      | -  | 1  | 1  | -  | -      | -  | -  | -  | -  | -  | -  | 1  | 1  |
|                                                 | C   | -                      | - | - | - | - | -      | - | - | - | -  | -      | -  | -  | -  | -  | -      | -  | -  | -  | -  | -  | -  | -  | 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  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | -  | -  | -  | -  | -  |
|                                                 | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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 | - | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  |

|                |                   |    |      |        |             |                                          |                                                                                       |          |                                                                                       |                                                                                                             |        |        |      |
|----------------|-------------------|----|------|--------|-------------|------------------------------------------|---------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------|--------|------|
| mat'l code     |                   |    |      | - -    |             | tolerances unless<br>otherwise specified |                                                                                       | CUSTOMER |                                                                                       | <br>www.fciconnect.com |        |        |      |
| ltr            | ecn no.           | dr | date | linear | 0. X ±0.3   |                                          | COPY                                                                                  |          |  | title                                                                                                       |        |        |      |
| DG             |                   |    |      |        | 0. XX ±0.13 |                                          | projection                                                                            |          |                                                                                       | METRAL SIGNAL HEADER                                                                                        |        |        |      |
|                |                   |    |      |        | . XXX ±.051 |                                          |                                                                                       |          |                                                                                       | 4 MOD, 5 ROW PRESS-FIT                                                                                      |        |        |      |
|                |                   |    |      | angles | 0° ±2°      |                                          |                                                                                       |          |  | product family                                                                                              |        | METRAL | code |
|                |                   |    |      | dr     | T.BRUNGARD  | 11/19/99                                 |  |          |                                                                                       | size                                                                                                        | dwg no |        | 213  |
|                |                   |    |      | engr   | M.STRAWER   | 11/19/99                                 |                                                                                       |          |                                                                                       | scale                                                                                                       | A      | 85854  |      |
|                |                   |    |      | chr    | M.STRAWER   | 11/19/99                                 |                                                                                       |          | 1:1                                                                                   |                                                                                                             |        |        | 10   |
|                |                   |    |      | appd   | M.STRAWER   | 02/29/00                                 |                                                                                       |          |                                                                                       |                                                                                                             |        |        |      |
| sheet<br>index | revision<br>sheet |    |      |        |             |                                          |                                                                                       |          |                                                                                       |                                                                                                             |        |        |      |

|           |  |  |  |       |  |  |  |   |  |  |  |
|-----------|--|--|--|-------|--|--|--|---|--|--|--|
| cage code |  |  |  | 22526 |  |  |  | 4 |  |  |  |
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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  |
|                                                 | A   | 2                      | - | 2 | - | - | 2      | 2 | - | 2 | -  | -      | 2  | 2  | -  | 2  | -      | -  | 2  | 2  | -  | 2  | -  | -  | 2  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 4  | 4  | 2  | 2  | 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  | 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 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  |
|                                                 | D   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  |
|                                                 | C   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  |
|                                                 | B   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  |
|                                                 | A   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 1  | 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<br>otherwise specified |                                                                                       |  |  | CUSTOMER |                                                         |  |  | <br>www.fciconnect.com |  |  |  |
| litr           | ecn no.           | dr | date | linear | 0.X ±0.3            |  |  |                                          | COPY                                                                                  |  |  |          | title<br>METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |  |  |                                                                                                             |  |  |  |
| DG             |                   |    |      |        | 0.XX ±0.13          |  |  |                                          | projection                                                                            |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |
|                |                   |    |      |        | .XXX ±.051          |  |  |                                          |  |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |
|                |                   |    |      | angles | 0° ±2°              |  |  |                                          |  |  |  |          | product family<br>METRAL<br>code<br>213<br>sheet<br>11  |  |  |                                                                                                             |  |  |  |
|                |                   |    |      | dr     | T.BRUNGARD 11/19/99 |  |  |                                          |  |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |
|                |                   |    |      | enrg   | M.STRAWER 11/19/99  |  |  |                                          |                                                                                       |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |
|                |                   |    |      | chr    | M.STRAWER 11/19/99  |  |  |                                          |                                                                                       |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |
|                |                   |    |      | appd   | M.STRAWER 02/29/00  |  |  |                                          | scale<br>1:1                                                                          |  |  |          | A<br>85854                                              |  |  |                                                                                                             |  |  |  |
| sheet<br>index | revision<br>sheet |    |      |        |                     |  |  |                                          |                                                                                       |  |  |          |                                                         |  |  |                                                                                                             |  |  |  |

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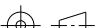
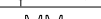
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B

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2  | 2 | 2 | 2 | 4      | 2 | 2 | 2 | 1  | 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 | 3  | 3      | 3  | 2  | 2  | 2  | 2      | 2  | 4  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | 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  |
|                                                 | 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  |
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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      | 4 | 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  | 4  | 3  | 4  | 4  | 3  | 3  | 3  |

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

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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | - | 2 | - | 2 | -      | 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  | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 19 | 3  | 19 | 3  | 19     | 3 | 19 | 19 | 1  | 1      | 19 | 19 | 19 | 19 | 1      | 19 | 1  | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | 4                      | 19 | 3  | 19 | 3  | 19     | 3 | 19 | 19 | 1  | 1      | 19 | 19 | 4  | 19 | 1      | 19 | 1  | 19 | 19 | 1  | 19 | 1  | 19 |
|                                                 | C   | 1                      | 19 | 19 | 19 | 19 | 19     | 3 | 19 | 19 | 1  | 1      | 19 | 19 | 19 | 19 | 19     | 1  | 19 | 1  | 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     | 1  | 19 | 1  | 19 | 1  | 1  | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | - | - | - | 3 | 3      | 4 | 4 | 3 | 4  | 3      | 4  | 4  | 2  | 2  | 2      | 2  | 4  | 4  | 4  | 4  | 2  | 2  | 2  |
|                                                 | D   | 4                      | - | - | - | 3 | 3      | 4 | 4 | 3 | 4  | 3      | 4  | 4  | 4  | 4  | 4      | 2  | 2  | 4  | 2  | 2  | 4  | 2  | 2  |
|                                                 | C   | 4                      | - | - | - | 3 | 3      | 4 | 4 | 3 | 4  | 3      | 4  | 4  | 2  | 2  | 2      | 4  | 2  | 2  | 4  | 2  | 2  | 4  | 2  |
|                                                 | B   | 4                      | - | - | - | 3 | 3      | 4 | 4 | 3 | 4  | 3      | 4  | 4  | 2  | 2  | 2      | 4  | 4  | 2  | 4  | 2  | 2  | 4  | 2  |
|                                                 | A   | 4                      | - | - | - | 3 | 3      | 4 | 4 | 3 | 4  | 3      | 4  | 4  | 2  | 2  | 2      | 4  | 2  | 2  | 4  | 2  | 2  | 4  | 2  |

| 3                                               |     |                        |   |   |   |   |   |        |   |   |    |    |    |        |    |    |    |    |    |        |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | -  |
|                                                 | 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  | -  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 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  |
|                                                 | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 1  | 3  | 3  | 3  | 3      | 3  | 19 | 19 | 19 | 19 | 19 | 1  | 1  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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 |  |                        |  |
| litr        |  |  |  | ecr no.                               |  |  |  | COPY                |  |     |  | www.fciconnect.com     |  |
| DG          |  |  |  | dr                                    |  |  |  | projection          |  |     |  | title                  |  |
|             |  |  |  | date                                  |  |  |  | linear              |  |     |  | METRAL SIGNAL HEADER   |  |
|             |  |  |  |                                       |  |  |  | 0.X ±0.3            |  |     |  | 4 MOD, 5 ROW PRESS-FIT |  |
|             |  |  |  |                                       |  |  |  | 0.XX ±0.13          |  |     |  | product family         |  |
|             |  |  |  |                                       |  |  |  | .XXX ±.051          |  |     |  | METRAL                 |  |
|             |  |  |  |                                       |  |  |  | angles              |  |     |  | code                   |  |
|             |  |  |  |                                       |  |  |  | 0° ±2°              |  |     |  | 213                    |  |
|             |  |  |  |                                       |  |  |  | dr                  |  |     |  | size                   |  |
|             |  |  |  |                                       |  |  |  | T.BRUNGARD 11/19/99 |  |     |  | dwg no                 |  |
|             |  |  |  |                                       |  |  |  | M.STRAWER 11/19/99  |  |     |  | 85854                  |  |
|             |  |  |  |                                       |  |  |  | chr                 |  |     |  | sheet                  |  |
|             |  |  |  |                                       |  |  |  | M.STRAWER 11/19/99  |  |     |  | 13                     |  |
|             |  |  |  |                                       |  |  |  | appd                |  |     |  |                        |  |
|             |  |  |  |                                       |  |  |  | M.STRAWER 02/29/00  |  |     |  |                        |  |
| sheet index |  |  |  | revision sheet                        |  |  |  | scale               |  |     |  | cage code              |  |
|             |  |  |  |                                       |  |  |  | 1:1                 |  |     |  | 22526                  |  |

Pro/E

3

cage code 22526

4



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REV E - 2006-04-18

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 07 | 59 | 07 | 59 | 07 | 59 | 07 |
|                                                 | D   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 07 | 59 | 07 | 59 | 07 | 59 | 07 |
|                                                 | C   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 07 | 59 | 07 | 59 | 07 | 59 | 07 |
|                                                 | B   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 07 | 59 | 07 | 59 | 07 | 59 | 07 |
|                                                 | A   | 59                     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 59 | 59 | 59 | 59     | 59 | 07 | 59 | 07 | 59 | 07 | 59 | 07 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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-X91<br>SEE NOTE 10<br>LEAD FREE<br>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   | 8                      | 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                      | 8 | 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  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 20                     | 7 | 7 | 7 | 7 | 7      | 20 | 7 | 7 | 7  | 7      | 7  | 20 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 20                     | 7 | 7 | 7 | 7 | 7      | 20 | 7 | 7 | 7  | 7      | 7  | 20 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 20                     | 7 | 7 | 7 | 7 | 7      | 20 | 7 | 7 | 7  | 7      | 7  | 20 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 20                     | 7 | 7 | 7 | 7 | 7      | 20 | 7 | 7 | 7  | 7      | 7  | 20 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 20                     | 7 | 7 | 7 | 7 | 7      | 20 | 7 | 7 | 7  | 7      | 7  | 20 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 7  | 7  | 7  |

|                                                 |  |                        |    |   |   |   |   |        |    |   |    |    |    |        |    |    |    |    |    |        |    |    |    |    |    |   |
|-------------------------------------------------|--|------------------------|----|---|---|---|---|--------|----|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|---|
| 3                                               |  |                        |    |   |   |   |   |        |    |   |    |    |    |        |    |    |    |    |    |        |    |    |    |    |    |   |
| METRAL<br>P/N                                   |  | CONTACT CODE<br>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-X93<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 1      | 19 | 1 | 2 | 2  | 1      | 2  | 2  | 2  | 2  | 2      | 2  | 19 | 19 | 2  | 4  | 4  | 2  | 1  |
|                                                 | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2  | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 19 | 19 | 2  | 4  | 4  | 2  | 1  |
|                                                 | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2  | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 19 | 19 | 2  | 4  | 4  | 2  | 1  |
|                                                 | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2  | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 19 | 19 | 2  | 4  | 4  | 2  | 1  |
|                                                 | A   | 2                      | 2 | 2 | 2 | 2 | 1      | 2  | 1 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 19 | 19 | 2  | 4  | 4  | 2  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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                     | 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  |

|             |         |                |      |        |  |                                          |  |                                                                                       |  |                                                                                       |  |                                                      |  |       |  |  |  |  |  |  |  |  |  |  |  |
|-------------|---------|----------------|------|--------|--|------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------|--|-------|--|--|--|--|--|--|--|--|--|--|--|
| mat'l code  |         |                |      | - -    |  | tolerances unless<br>otherwise specified |  | CUSTOMER                                                                              |  |  |  | www.fciconnect.com                                   |  |       |  |  |  |  |  |  |  |  |  |  |  |
| litr        | ecn no. | dr             | date | linear |  | 0.X ±0.3                                 |  | COPY                                                                                  |  |  |  | title METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |  |       |  |  |  |  |  |  |  |  |  |  |  |
| DG          |         |                |      |        |  | 0.XX ±0.13                               |  | projection                                                                            |  |                                                                                       |  |                                                      |  |       |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      |        |  | .XXX ±.051                               |  |                                                                                       |  |                                                                                       |  |                                                      |  |       |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      |        |  | angles 0° ±2°                            |  |                                                                                       |  |                                                                                       |  |                                                      |  |       |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      | dr     |  | T.BRUNGARD 11/19/99                      |  |  |  | product family                                                                        |  | METRAL                                               |  | code  |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      | engr   |  | M.STRAWER 11/19/99                       |  |                                                                                       |  | size                                                                                  |  | dwg no                                               |  | 213   |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      | chr    |  | M.STRAWER 11/19/99                       |  |                                                                                       |  | scale                                                                                 |  | 85854                                                |  | sheet |  |  |  |  |  |  |  |  |  |  |  |
|             |         |                |      | appd   |  | M.STRAWER 02/29/00                       |  |                                                                                       |  | 1:1                                                                                   |  | A                                                    |  | 14    |  |  |  |  |  |  |  |  |  |  |  |
| sheet index |         | revision sheet |      |        |  |                                          |  |                                                                                       |  |                                                                                       |  |                                                      |  |       |  |  |  |  |  |  |  |  |  |  |  |

Pro/E

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cage code 22526

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REV E - 2006-04-18

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 2 | 1  | 1      | 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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                   | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  |

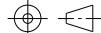
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|--------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                  |     | 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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 2 | 1  | 1      | 2  | 2  | 1  | 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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 2  | 1  | 1      | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  |
|                                                  | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 2  | 1  | 1      | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  |
|                                                  | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 2  | 1  | 1      | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  |
|                                                  | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 2  | 1  | 1      | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  |
|                                                  | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 2  | 1  | 1      | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 6 | 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 | 6 | 5  | 5      | 5  | 5  | 5  | 6  | 6      | 5  | 5  | 5  | 6  | 5  | 5  | 6  | 5  |
|                                                  | C   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 5  | 6  | 5  | 6  | 6  | 5  |
|                                                  | B   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 6  | 5  | 6  | 6  | 5  |
|                                                  | A   | 5                      | 5 | 6 | 5 | 5 | 5      | 5 | 5 | 6 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 6  | 5  | 6  | 6  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  |

|             |         |                |      |        |  |                                          |  |            |  |                                                                                       |  |                                                      |  |
|-------------|---------|----------------|------|--------|--|------------------------------------------|--|------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------|--|
| mat'l code  |         |                |      | - -    |  | tolerances unless<br>otherwise specified |  | CUSTOMER   |  |  |  | www.fciconnect.com                                   |  |
| ltr         | ecm no. | dr             | date | linear |  | 0.X ±0.3                                 |  | COPY       |  |  |  | title METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |  |
| DG          |         |                |      |        |  | 0.XX ±0.13                               |  | projection |  |                                                                                       |  |                                                      |  |
|             |         |                |      |        |  | .XXX ±.051                               |  |            |  |                                                                                       |  |                                                      |  |
|             |         |                |      |        |  | 0° ±2°                                   |  |            |  |                                                                                       |  |                                                      |  |
|             |         |                |      | angles |  | 0° ±2°                                   |  |            |  |                                                                                       |  |                                                      |  |
|             |         |                |      | dr     |  | T.BRUNGARD 11/19/99                      |  |            |  |                                                                                       |  | product family METRAL                                |  |
|             |         |                |      | enrg   |  | M.STRAWSE 11/19/99                       |  |            |  |                                                                                       |  | size                                                 |  |
|             |         |                |      | chr    |  | M.STRAWSE 11/19/99                       |  |            |  |                                                                                       |  | dwg no                                               |  |
|             |         |                |      | appd   |  | M.STRAWSE 02/29/00                       |  |            |  |                                                                                       |  | 85854                                                |  |
| sheet index |         | revision sheet |      |        |  |                                          |  |            |  |                                                                                       |  | code 213                                             |  |
|             |         |                |      |        |  |                                          |  |            |  |                                                                                       |  | sheet 15                                             |  |

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REV E - 2006-04-18

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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  | 3  | 3  | 3  |
|                                                  | C   | 3                      | 3 | 4 | 3 | 3 | 4      | 3 | 3 | 4 | 3  | 3      | 4  | 3  | 3  | 4  | 3      | 3  | 4  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                  | B   | 3                      | 4 | 3 | 3 | 4 | 3      | 3 | 4 | 3 | 3  | 4      | 3  | 3  | 4  | 3  | 3      | 4  | 2  | 1  | 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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3 | 3 | 4 | 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 | 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  | 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  | 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  | 2 | 4 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 20 | 7  | 20 | 7  | 20     | 7 | 20 | 20 | 5  | 5      | 20 | 20 | 20 | 20 | 5      | 20 | 5  | 20 | 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 |
|                                                  | C   | 5                      | 20 | 20 | 20 | 20 | 20     | 7 | 20 | 20 | 5  | 5      | 20 | 20 | 20 | 20 | 5      | 20 | 5  | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                  | B   | 8                      | 20 | 8  | 20 | 5  | 20     | 5 | 20 | 5  | 20 | 5      | 20 | 20 | 5  | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                  | A   | 20                     | 5  | 5  | 5  | 5  | 5      | 5 | 5  | 5  | 5  | 5      | 20 | 20 | 20 | 20 | 20     | 5  | 20 | 5  | 20 | 5  | 5  | 20 | 20 |

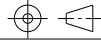
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|--------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                  |     | 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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                    | ROW | CONTACT CODE<br>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-X109<br>SEE NOTE 10<br>LEAD FREE<br>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  | -  |
|                                                  | 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  | -  |
|                                                  | A   | 6                      | - | 6 | - | 6 | -      | 6 | - | 6 | -  | 6      | -  | 6  | -  | 6  | -      | 6  | -  | 6  | -  | 6  | -  | 6  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X110<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 1  | 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  | 2  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X111<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 1      | 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  | 2  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X112<br>SEE NOTE 10<br>LEAD FREE<br>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  | 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  |

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

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A

B

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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<br>P/N                                    | ROW | CONTACT CODE<br>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-X116<br>SEE NOTE 10<br>LEAD FREE<br>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  | 6 | 21 | 6  | 2      | 19 | 2  | 2  | 2  | 6      | 6  | 6  | 6  | 21 | 6  | 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  | 2  |
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X117<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 6 | 6  | 6      | 2  | 6 | 2  | 2  | 2      | 2  | 2  | 2  | 6  | 6      | 6  | 6  | 6  | 2  | 2  | 2  | 2  | 2  |
|                                                  | D   | 2                      | 2 | 2 | 6 | 6  | 6      | 2  | 6 | 2  | 2  | 2      | 2  | 2  | 2  | 6  | 6      | 6  | 6  | 6  | 2  | 2  | 2  | 2  | 2  |
|                                                  | C   | 2                      | 2 | 2 | 6 | 6  | 6      | 2  | 6 | 2  | 2  | 2      | 2  | 2  | 2  | 6  | 6      | 6  | 6  | 6  | 2  | 2  | 2  | 2  | 2  |
|                                                  | B   | 2                      | 2 | 2 | 6 | 6  | 6      | 21 | 6 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 6      | 6  | 6  | 6  | 21 | 6  | 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  |

|            |         |          |      |     |  |                                          |                     |            |  |                                                                                       |  |                        |  |
|------------|---------|----------|------|-----|--|------------------------------------------|---------------------|------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|
| mat'l code |         |          |      | - - |  | tolerances unless<br>otherwise specified |                     | CUSTOMER   |  |  |  | www.fciconnect.com     |  |
| lfr        | ecn no. | dr       | date |     |  | linear                                   | 0.X ±0.3            | COPY       |  |                                                                                       |  |                        |  |
| DG         |         |          |      |     |  |                                          | 0.XX ±0.13          | projection |  |  |  | title                  |  |
|            |         |          |      |     |  |                                          | .XXX ±.051          |            |  |                                                                                       |  | METRAL SIGNAL HEADER   |  |
|            |         |          |      |     |  | angles                                   | 0° ±2°              |            |  |                                                                                       |  | 4 MOD, 5 ROW PRESS-FIT |  |
|            |         |          |      |     |  | dr                                       | T.BRUNGARD 11/19/99 |            |  |                                                                                       |  | product family         |  |
|            |         |          |      |     |  | engr                                     | M.STRAWSE 11/19/99  |            |  |                                                                                       |  | METRAL                 |  |
|            |         |          |      |     |  | chr                                      | M.STRAWSE 11/19/99  |            |  |                                                                                       |  | size                   |  |
|            |         |          |      |     |  | appd                                     | M.STRAWSE 02/29/00  |            |  |                                                                                       |  | dwg no                 |  |
| sheet      |         | revision |      |     |  |                                          |                     |            |  |                                                                                       |  | 85854                  |  |
| index      |         | sheet    |      |     |  |                                          |                     |            |  |                                                                                       |  | 213                    |  |
|            |         |          |      |     |  |                                          |                     |            |  |                                                                                       |  | sheet                  |  |
|            |         |          |      |     |  |                                          |                     |            |  |                                                                                       |  | 17                     |  |

A

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REV E - 2006-04-18

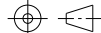
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|--------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                  |     | 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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 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  | 3  | 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  | 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  | 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  | 3  | 3  |
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 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  | 3  | 3  | 3  |
|                                                  | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 1  | 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  | 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  | 3  | 3  |
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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   | 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<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 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  | 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  | 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  | 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  | 3  | 3  |
| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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<br>SEE NOTE 10<br>LEAD FREE<br>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 | 1 | 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  | 1  | 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  |

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|            |         |          |      |                                          |                     |          |  |                                                                                       |  |                        |  |
|------------|---------|----------|------|------------------------------------------|---------------------|----------|--|---------------------------------------------------------------------------------------|--|------------------------|--|
| mat'l code |         |          |      | tolerances unless<br>otherwise specified |                     | CUSTOMER |  |  |  | www.fciconnect.com     |  |
| lfr        | ecn no. | dr       | date | linear                                   | 0.X ±0.3            | COPY     |  | projection                                                                            |  | title                  |  |
| DG         |         |          |      |                                          | 0.XX ±0.13          |          |  |  |  | METRAL SIGNAL HEADER   |  |
|            |         |          |      |                                          | .XXX ±.051          |          |  |                                                                                       |  | 4 MOD, 5 ROW PRESS-FIT |  |
|            |         |          |      | angles                                   | 0° ±2°              |          |  |  |  | product family         |  |
|            |         |          |      | dr                                       | T.BRUNGARD 11/19/99 |          |  | scale                                                                                 |  | METRAL                 |  |
|            |         |          |      | enrg                                     | M.STRAWER 11/19/99  |          |  | size                                                                                  |  | code                   |  |
|            |         |          |      | chr                                      | M.STRAWER 11/19/99  |          |  | dwg no                                                                                |  | 213                    |  |
|            |         |          |      | appd                                     | M.STRAWER 02/29/00  |          |  | A                                                                                     |  | sheet                  |  |
| sheet      |         | revision |      |                                          |                     |          |  |                                                                                       |  | 18                     |  |
| index      |         | sheet    |      |                                          |                     |          |  |                                                                                       |  |                        |  |

cage code 22526

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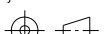
REV E - 2006-04-18

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X133<br>SEE NOTE 10<br>LEAD FREE<br>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  |
|                                                  | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 1  |
|                                                  | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 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  | 1  | 1  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X134<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 1 | 2 | 1 | 1 | 3      | 1 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 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  | 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  | 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  | 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  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X135<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 20     | 7  | 7  | 8  | 7  | 20 |    |
|                                                  | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 20     | 7  | 7  | 8  | 7  | 20 |    |
|                                                  | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 20     | 7  | 7  | 8  | 7  | 20 |    |
|                                                  | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 20 | 7  | 7  | 20     | 7  | 7  | 8  | 7  | 20 |    |
|                                                  | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 6  | 6  | 7  | 7      | 20 | 7  | 7  | 8  | 7  | 20 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE<br>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-X136<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 19 | 3      | 3  | 19 | 3  | 3  | 4  | 3  | 19 |    |
|                                                  | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 19 | 3      | 3  | 19 | 3  | 3  | 4  | 3  | 19 |    |
|                                                  | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 19 | 3      | 3  | 19 | 3  | 3  | 4  | 3  | 19 |    |
|                                                  | B   | 3                      | 3 | 3 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 19 | 3      | 3  | 19 | 3  | 3  | 4  | 3  | 19 |    |
|                                                  | A   | 3                      | 3 | 3 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 3      | 3  | 19 | 3  | 3  | 4  | 3  | 19 |    |

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

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| PRODUCT NUMBER                    |
|-----------------------------------|
| 85854-XXX<br>OR<br>85854-YYYY     |
| 85854-XYLFF<br>OR<br>85854-YYYYLF |

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-XXX IS SnPb  
85854-XYLFF 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-XXXP
- 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 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)                | -          |
| -NSYY OR -NSYYY         | 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 -NIYYLFF     | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 9 |
| -NSYYLF OR -NSYYLFF     | TELCORDIA UE (NXT)                | SEE NOTE 9 |
| -IYYLF OR -IYYLFF       | TELCORDIA CO IEC CLASS I          | SEE NOTE 9 |
| -2YYLF OR -2YYLFF       | TELECOM CLASS                     | SEE NOTE 9 |
| -5YYLF OR -5YYLFF       | TELCORDIA UE                      | SEE NOTE 9 |

10. FOR LEAD FREE PART NUMBERS ADD AN "LF" SUFFIX..  
EXAMPLE: 85854-X0ILF

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

cage code 22526