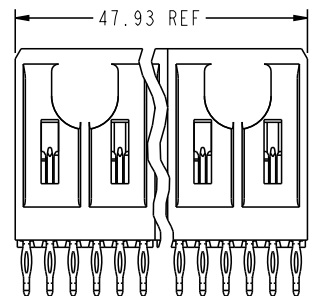
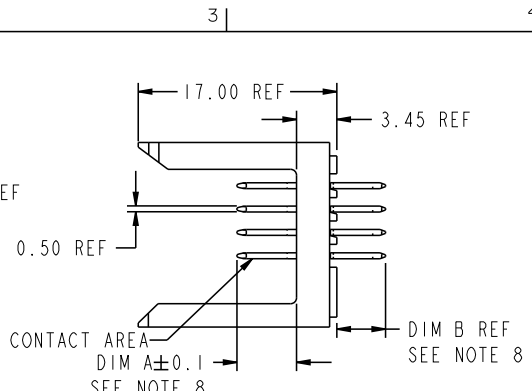
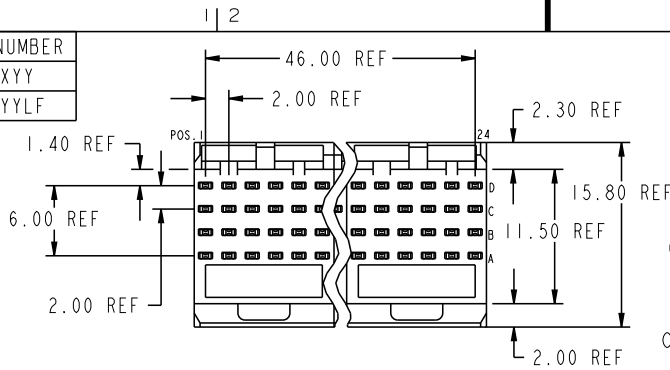


|                |
|----------------|
| PRODUCT NUMBER |
| 70234-XYX      |
| 70234-XYXLF    |



| PLATING IN CONTACT AREA |                                   |             |
|-------------------------|-----------------------------------|-------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | NOTES       |
| -AYY                    | TELCORDIA CO                      | SEE NOTE 9  |
| -MYX                    | .38µm GOLD MIN.                   | -           |
| -NYY                    | TELCORDIA CO (NXT)                | -           |
| -NSYY                   | TELCORDIA UE (NXT)                | -           |
| -IYY                    | TELCORDIA CO                      | -           |
| -2YY                    | TELECOM CLASS                     | -           |
| -3YY                    | IEC CLASS 1                       | -           |
| -5YY                    | TELCORDIA UE                      | -           |
| -AYXLF                  | TELCORDIA CO                      | SEE NOTE 10 |
| -NIYYLF                 | TELCORDIA CO (NXT)<br>IEC CLASS 1 | SEE NOTE 10 |
| -NSYYLF                 | TELCORDIA UE (NXT)                | SEE NOTE 10 |
| -IYYLF                  | TELCORDIA CO<br>IEC CLASS 1       | SEE NOTE 10 |
| -2YYLF                  | TELECOM CLASS                     | SEE NOTE 10 |
| -5YYLF                  | TELCORDIA UE                      | SEE NOTE 10 |

|             |                |      |            |                                       |             |            |      |  |      |        |       |                           |       |   |  |
|-------------|----------------|------|------------|---------------------------------------|-------------|------------|------|--|------|--------|-------|---------------------------|-------|---|--|
| mat'l code  |                |      |            | tolerances unless otherwise specified |             |            |      | CUSTOMER                                       |      |        |       | FCJ<br>www.fcjconnect.com |       |   |  |
| lfr         | ecm no.        | dr   | date       | linear                                | 0.X ± 0.3   | projection |      | COPY   |      | title  |       |                           |       |   |  |
| AG          | V06-0498       | DCH  | 2006-05-31 |                                       | 0.XX ± 0.13 | MM         |      | METRAL SIGNAL HEADER<br>4 MOD, 4 ROW PRESS-FIT |      |        |       |                           |       |   |  |
| AH          | DG09-0256      | TER  | 2009-08-19 | angles                                | .XXX ± .051 | MM         |      | product family                                 |      | METRAL |       | code                      |       |   |  |
| AC          | V04-0554       | TAB  | 06/07/04   | dr                                    | 0° ± 2°     | MM         |      | size   |      | dwg no |       | 213                       |       |   |  |
| AD          | V05-0079       | HTB  | 02/03/05   | engr                                  |             | MM         |      | scale  |      | 70234  |       | sheet                     |       |   |  |
| AE          | V05-0359       | DAI  | 04/21/05   | chr                                   |             | MM         |      | 2:1  |      | A      |       | 1 of 12                   |       |   |  |
| AF          | V05-1030       | LP   | 11/18/05   | oppd                                  |             | MM         |      |  |      |        |       |                           |       |   |  |
| sheet index | revision sheet | AH 1 | AH 2       | AH 3                                  | AH 4        | AH 5       | AH 6 | AH 7   | AH 8 | AH 9   | AH 10 | AH 11                     | AH 12 |   |  |
| code code   |                |      |            |                                       |             |            |      |  |      |        |       | 22526                     |       | 4 |  |

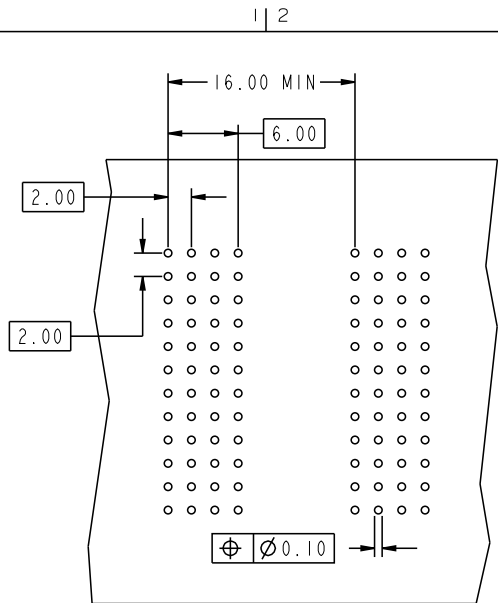
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REV E - 2006-04-18

PDM: Rev:AH STATUS:Released Printed: Feb 20, 2010



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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE

SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| 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           |
| 12   | 7.25            | 17.00           |
| 13   | 8.25            | 4.30            |
| 14   | 8.25            | 13.60           |
| 15   | 8.25            | 17.00           |
| 19   | 8.00            | 4.30            |
| 20   | 8.00            | 13.60           |
| 21   | 8.00            | 17.00           |

|             |                |    |      |                                       |                     |            |                            |                        |        |
|-------------|----------------|----|------|---------------------------------------|---------------------|------------|----------------------------|------------------------|--------|
| mat'l code  |                |    |      | tolerances unless otherwise specified |                     | CUSTOMER   |                            | FCJ                    |        |
| lfr         | ecm no.        | dr | date | linear                                | 0.X ±0.3            | COPY       |                            | www.fcjconnect.com     |        |
| AH          |                |    |      | linear                                | 0.XX ±0.13          | projection | title METRAL SIGNAL HEADER |                        |        |
|             |                |    |      | linear                                | .XXX ±.051          |            |                            | 4 MOD, 4 ROW PRESS-FIT |        |
|             |                |    |      | angles                                | Ø ±2°               |            |                            | product family         | METRAL |
|             |                |    |      | dr                                    | T.BRUNGARD 11/19/99 | scale      | 1:1                        | size                   | dwg no |
|             |                |    |      | engr                                  | M.STRAWER 11/19/99  |            |                            | code 213               |        |
|             |                |    |      | chr                                   | M.STRAWER 11/19/99  | A          |                            | sheet 2                |        |
|             |                |    |      | oppd                                  | M.STRAWER 02/29/00  | 70234      |                            | sheet 2                |        |
| sheet index | revision sheet |    |      |                                       |                     |            |                            | code code              | 22526  |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X10<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 2                   | 2 | 2 | 2 | 2 | 2      | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X11<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X12<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X13<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X14<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | C   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X15<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X16<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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 P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X17<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 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   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X18<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X19<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | C   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | B   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | A   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

|             |          |       |      |                                       |                      |            |      |                        |                      |                    |  |
|-------------|----------|-------|------|---------------------------------------|----------------------|------------|------|------------------------|----------------------|--------------------|--|
| mat'l code  |          | --    |      | tolerances unless otherwise specified |                      | CUSTOMER   |      |                        |                      | www.fciconnect.com |  |
| ltr         | ecn no.  | dr    | date | linear                                | 0.X ±0.13            | projection | COPY | title                  | METRAL SIGNAL HEADER |                    |  |
| AH          |          |       |      | angles                                | .XXX ±.051           |            |      | 4 MOD. 4 ROW PRESS-FIT |                      |                    |  |
|             |          |       |      | dr                                    | T. BRUNGARD 11/19/99 | MM         |      | product family         | METRAL               |                    |  |
|             |          |       |      | eng                                   | M. STRAWSER 11/19/99 | scale      |      | size                   | dwg no               | 213                |  |
|             |          |       |      | chr                                   | M. STRAWSER 11/19/99 | 1:1        |      | 70234                  |                      | sheet 3            |  |
|             |          |       |      | appd                                  | M. STRAWSER 02/29/00 |            |      |                        |                      |                    |  |
| sheet index | revision | sheet |      |                                       |                      |            |      |                        |                      |                    |  |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X20<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | C   | 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   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X21<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | C   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | B   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | A   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X22<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | C   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | B   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | A   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X23<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 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   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X24<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | C   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | A   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X25<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | A   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X26<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | B   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | A   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X27<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 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   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X28<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | B   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | A   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X29<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | C   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | B   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | A   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

|             |                |    |      |                                       |                      |            |                        |                      |         |                    |  |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|------------------------|----------------------|---------|--------------------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                        | FCI                  |         | www.fciconnect.com |  |
| lfr         | ecm no.        | dr | date | linear                                | 0. x ±0.13           | projection | title                  | METRAL SIGNAL HEADER |         |                    |  |
| AH          |                |    |      | angles                                | .xxx ±.051           |            | 4 MOD, 4 ROW PRESS-FIT |                      |         |                    |  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 |            | product family         | METRAL               |         |                    |  |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | scale      | size                   | dwg no               | 213     |                    |  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | 1:1        | 70234                  |                      | sheet 4 |                    |  |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |            | A                      |                      |         |                    |  |
| sheet index | revision sheet |    |      |                                       |                      |            |                        |                      |         |                    |  |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X30<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X31<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 9                   | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 9                   | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 9                   | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X32<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X33<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X34<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X35<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X36<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X37<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X38<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X39<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | C   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | B   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | A   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

|             |                |    |      |                                       |                     |                |                        |                      |  |                    |  |
|-------------|----------------|----|------|---------------------------------------|---------------------|----------------|------------------------|----------------------|--|--------------------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                     | CUSTOMER       |                        |                      |  | www.fciconnect.com |  |
| lfr         | ecn no.        | dr | date | linear                                | 0. XX ±0.13         | projection     | title                  | METRAL SIGNAL HEADER |  |                    |  |
| AH          |                |    |      | angles                                | .XXX ±.051          |                | 4 MOD, 4 ROW PRESS-FIT |                      |  |                    |  |
|             |                |    |      | dr                                    | T.BRUNGARD 11/19/99 | product family | METRAL                 |                      |  |                    |  |
|             |                |    |      | eng                                   | M.STRANSER 11/19/99 | size           | dwg no                 |                      |  |                    |  |
|             |                |    |      | chr                                   | M.STRANSER 11/19/99 | scale          | A                      |                      |  |                    |  |
|             |                |    |      | appd                                  | M.STRANSER 02/29/00 | sheet          | 70234                  |                      |  |                    |  |
| sheet index | revision sheet |    |      |                                       |                     | code           | 213                    |                      |  |                    |  |
|             |                |    |      |                                       |                     | sheet          | 5                      |                      |  |                    |  |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X40<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | A   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X45<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X41<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X46<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | C   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X42<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X47<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 4                   | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | C   | 4                   | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | B   | 13                  | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|   | A   | 13                  | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X43<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 13                  | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|   | C   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X48<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | C   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | B   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | A   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X44<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X49<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | C   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

|             |                |    |      |                                       |                     |                |                        |                      |      |       |
|-------------|----------------|----|------|---------------------------------------|---------------------|----------------|------------------------|----------------------|------|-------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                     | CUSTOMER       |                        | www.fciconnect.com   |      |       |
| lfr         | ecn no.        | dr | date | linear                                | 0.X ±0.13           | projection     | title                  | METRAL SIGNAL HEADER |      |       |
|             |                |    |      | angles                                | .xxx ±.051          |                | 4 MOD, 4 ROW PRESS-FIT |                      |      |       |
|             |                |    |      | dr                                    | T.BRUNGARD 11/19/99 | <br>scale: 1:1 | product family         | METRAL               |      |       |
|             |                |    |      | engr                                  | M.STRAWER 11/19/99  |                | size                   | dwg no               |      |       |
|             |                |    |      | chr                                   | M.STRAWER 11/19/99  |                | 70234                  |                      |      |       |
|             |                |    |      | appd                                  | M.STRAWER 02/29/00  |                | 213                    |                      |      |       |
| sheet index | revision sheet |    |      |                                       |                     |                |                        |                      | code | 22526 |



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| METRAL P/N                                   | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X50<br>SEE NOTE 11<br>LEAD FREE OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|  | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|  | B   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|  | A   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL P/N                                   | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X55<br>SEE NOTE 11<br>LEAD FREE OPTION | D   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|  | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|  | B   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|  | A   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

|             |                |    |      |                                       |                     |            |                |     |                      |
|-------------|----------------|----|------|---------------------------------------|---------------------|------------|----------------|-----|----------------------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                     | CUSTOMER   |                | FCI |                      |
| lfr         | ecn no.        | dr | date | linear                                | 0.X ±0.3            | projection | COPY           |     | www.fciconnect.com   |
| AH          |                |    |      |                                       | 0.XX ±0.13          |            | title          |     | METRAL SIGNAL HEADER |
|             |                |    |      | angles                                | .XXX ±.051          |            | product family |     | METRAL               |
|             |                |    |      | dr                                    | T.BRUNGARD 11/19/99 | scale      | size           |     | dwg no               |
|             |                |    |      | engr                                  | M.STRAWSER 11/19/99 | 1:1        | A              |     | 70234                |
|             |                |    |      | chr                                   | M.STRAWSER 11/19/99 |            |                |     | 213                  |
|             |                |    |      | appd                                  | M.STRAWSER 02/29/00 |            |                |     | sheet 7              |
| sheet index | revision sheet |    |      |                                       |                     |            |                |     |                      |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X60<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | A   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X65<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X61<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X66<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 21                  | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | C   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X62<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 9                   | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 9                   | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X67<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | C   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | B   | 15                  | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
|   | A   | 15                  | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X63<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 15                  | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15     | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
|   | C   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X68<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 21                  | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | C   | 21                  | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | B   | 21                  | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | A   | 21                  | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X64<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | A   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    | MOD. 2 |    |    |    | MOD. 3 |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5      | 6  | 7  | 8  | 9      | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 70234-X69<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | C   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 11                  | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

|             |                |    |      |                                       |                      |            |                        |                      |     |                    |       |  |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|------------------------|----------------------|-----|--------------------|-------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                        | FCI                  |     | www.fciconnect.com |       |  |
| lfr         | ecn no.        | dr | date | linear                                | 0. XX ±0.13          | projection | title                  | METRAL SIGNAL HEADER |     |                    |       |  |
| AH          |                |    |      | angles                                | .XXX ±.051           |            | 4 MOD. 4 ROW PRESS-FIT |                      |     |                    |       |  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 |            | product family         | METRAL               |     |                    |       |  |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 |            | size                   | dwg no               |     |                    |       |  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 |            | 70234                  |                      | 213 |                    | sheet |  |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |            | A                      |                      | 8   |                    | sheet |  |
| sheet index | revision sheet |    |      |                                       |                      |            |                        |                      |     |                    |       |  |





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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X70<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | C   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|   | B   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|   | A   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X75<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X71<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X76<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | C   | 1                   | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 1                   | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | A   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X72<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 2                   | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|   | C   | 4                   | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | B   | 4                   | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|   | A   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X77<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 19                  | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|   | A   | 3                   | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X73<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 2                   | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X78<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | C   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 1                   | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X74<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | 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   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | B   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | A   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X79<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|   | C   | 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  |

|             |                |    |      |                                       |                      |            |                |                      |  |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|----------------|----------------------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                | FCI                  |  |
| lfr         | ecn no.        | dr | date | linear                                | 0. x ±0.3            | projection | COPY           | www.fciconnect.com   |  |
| AH          |                |    |      | linear                                | 0. xx ±0.13          | MM         | title          | METRAL SIGNAL HEADER |  |
|             |                |    |      | angles                                | .xxx ±.051           | MM         | product family | METRAL               |  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 | MM         | size           | dwg no               |  |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | MM         | scale          | A                    |  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | MM         | code           | 213                  |  |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 | MM         | sheet          | 9                    |  |
| sheet index | revision sheet |    |      |                                       |                      |            |                |                      |  |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X80<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | B   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | A   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X85<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | B   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | A   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X81<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | A   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X86<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 20                  | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|   | C   | 5                   | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | B   | 5                   | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | A   | 20                  | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 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 |
| 70234-X82<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 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   | 8                   | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|   | A   | 20                  | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 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 |
| 70234-X87<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 7                   | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 20                  | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|   | A   | 7                   | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X83<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 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   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X88<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | C   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|   | B   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | A   | 5                   | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X84<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|   | C   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | B   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | A   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|   |     | 1                   | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 70234-X89<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|   | C   | 6                   | 6 | 6 | 6 | 6 | 6      | 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  |

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



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X90<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X91<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X92<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | B   | 12                  | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|   | A   | 21                  | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X93<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X94<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X95<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X96<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 21                  | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | C   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | A   | 21                  | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X97<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | C   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | B   | 21                  | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|   | A   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X98<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | C   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|   | B   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | A   | 9                   | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|   |     | 1                   | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 70234-X99<br>SEE NOTE 11<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|   | C   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | B   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|   | A   | 10                  | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

|             |                |    |      |                                       |                      |            |                    |     |                      |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|--------------------|-----|----------------------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                    | FCI |                      |
| lfr         | ecn no.        | dr | date | linear                                | 0. x ± 0.3           | projection | www.fciconnect.com |     |                      |
| AH          |                |    |      | angles                                | 0. xx ± 0.13         | MM         | title              |     | METRAL SIGNAL HEADER |
|             |                |    |      | dr                                    | .xxx ± .051          | MM         | product family     |     | METRAL               |
|             |                |    |      | eng                                   | 0° ± 2°              | MM         | size               |     | dwg no               |
|             |                |    |      | chr                                   | T. BRUNGARD 11/19/99 | MM         | A                  |     | 70234                |
|             |                |    |      | appd                                  | M. STRAWSER 11/19/99 | MM         | sheet              |     | 213                  |
| sheet index | revision sheet |    |      |                                       | M. STRAWSER 02/29/00 | MM         | sheet              |     | 11                   |
|             |                |    |      |                                       |                      | MM         | cage code          |     | 22526                |

1 | 2

3 |

4

|                |
|----------------|
| PRODUCT NUMBER |
| 70234-XYX      |
| 70234-XYXLF    |

NOTES:

1. FOR DIM A AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
3. PIN MATERIAL:  
PHOSPHOR BRONZE.
4. PLATING ON PRESS-FIT TAIL:  
70234 -XYX IS SnPb  
70234-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.
5. PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
7. PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
- 8 AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- 9 -A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).
- 10 THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 11 FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 70234-X01LF
12. 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.

A

A



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B

B

|             |                |    |      |                                       |                      |            |                |     |                            |                    |  |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|----------------|-----|----------------------------|--------------------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                | FCI |                            | www.fciconnect.com |  |
| ltr         | ecm no.        | dr | date | linear                                | 0, X ±0,3            | projection | COPY           |     | title METRAL SIGNAL HEADER |                    |  |
| AH          |                |    |      |                                       | 0, XX ±0,13          |            |                |     | 4 MOD, 4 ROW PRESS-FIT     |                    |  |
|             |                |    |      | angles                                | .XXX ±.051           |            | product family |     | METRAL code                |                    |  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 | scale      | size           |     | 213                        |                    |  |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | 1:1        | dwg no         |     | sheet                      |                    |  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 |            | 70234          |     | 12                         |                    |  |
|             |                |    |      | oppd                                  | M. STRAWSER 02/29/00 |            |                |     |                            |                    |  |
| sheet index | revision sheet |    |      |                                       |                      |            |                |     |                            |                    |  |

1 | 2

3 |

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Pro/E

cage code 22526

PDM: Rev:AH STATUS:Released Printed: Feb 20, 2010

REV E - 2006-04-18