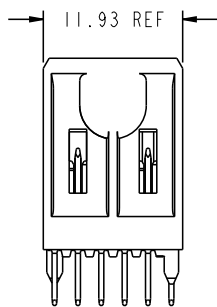
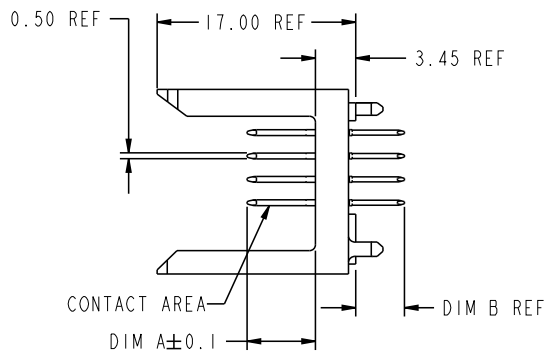
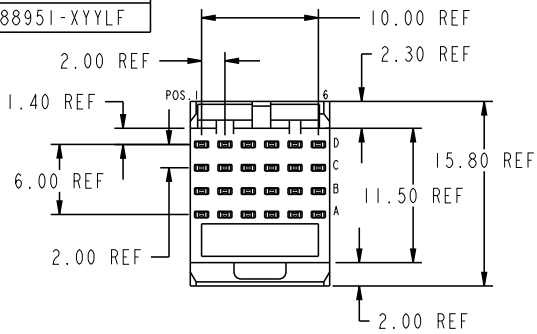


PRODUCT NUMBER  
88951-XYX  
88951-XYXLF



| PLATING IN CONTACT AREA |                                   |            |
|-------------------------|-----------------------------------|------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | NOTES      |
| -N1YY                   | TELCORDIA CO (NXT)                | -          |
| -1YY                    | TELCORDIA CO                      | -          |
| -2YY                    | TELECOM CLASS                     | -          |
| -3YY                    | IEC CLASS I                       | -          |
| -5YY                    | TELCORDIA UE                      | -          |
| -N1YYLF                 | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 8 |
| -1YYLF                  | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 8 |
| -2YYLF                  | TELECOM CLASS                     | SEE NOTE 8 |
| -5YYLF                  | TELCORDIA UE                      | SEE NOTE 8 |
| -361LF                  | CUSTOMER SPECIAL                  | SEE NOTE 8 |
| -377LF                  | CUSTOMER SPECIAL                  | SEE NOTE 8 |

|            |           |     |            |                                       |              |            |      |  |        |
|------------|-----------|-----|------------|---------------------------------------|--------------|------------|------|--|--------|
| mat'l code |           | --  |            | tolerances unless otherwise specified |              | CUSTOMER   |      | FCJ  |        |
| lfr        | ecm no.   | dr  | date       | linear                                | 0, X ± 0.3   | projection | COPY | www.fcjconnect.com                             |        |
| X          | DG09-0256 | TER | 2009-08-19 |                                       | 0, XX ± 0.13 |            |      | title METRAL SIGNAL HEADER<br>1 MOD. 4 ROW STB |        |
|            |           |     |            | angles                                | .XXX ± .051  |            |      | product family METRAL code                     |        |
| S          | V03-1059  | DAI | 09/24/03   | dr                                    | 0° ± 2°      |            |      | size   | 213    |
| T          | V05-0393  | DAI | 04/26/05   | engr                                  |              |            |      | dwg no   | 1 of 7 |
| U          | V05-1001  | LP  | 11/7/05    | chr                                   |              |            |      | 88951  |        |
| V          | V06-0123  | DAI | 02/09/06   | oppd                                  |              |            |      |  |        |
| sheet      | revision  | X   | X          | X                                     | X            | X          | X    |  |        |
| index      | sheet     | 1   | 2          | 3                                     | 4            | 5          | 6    | 7  |        |

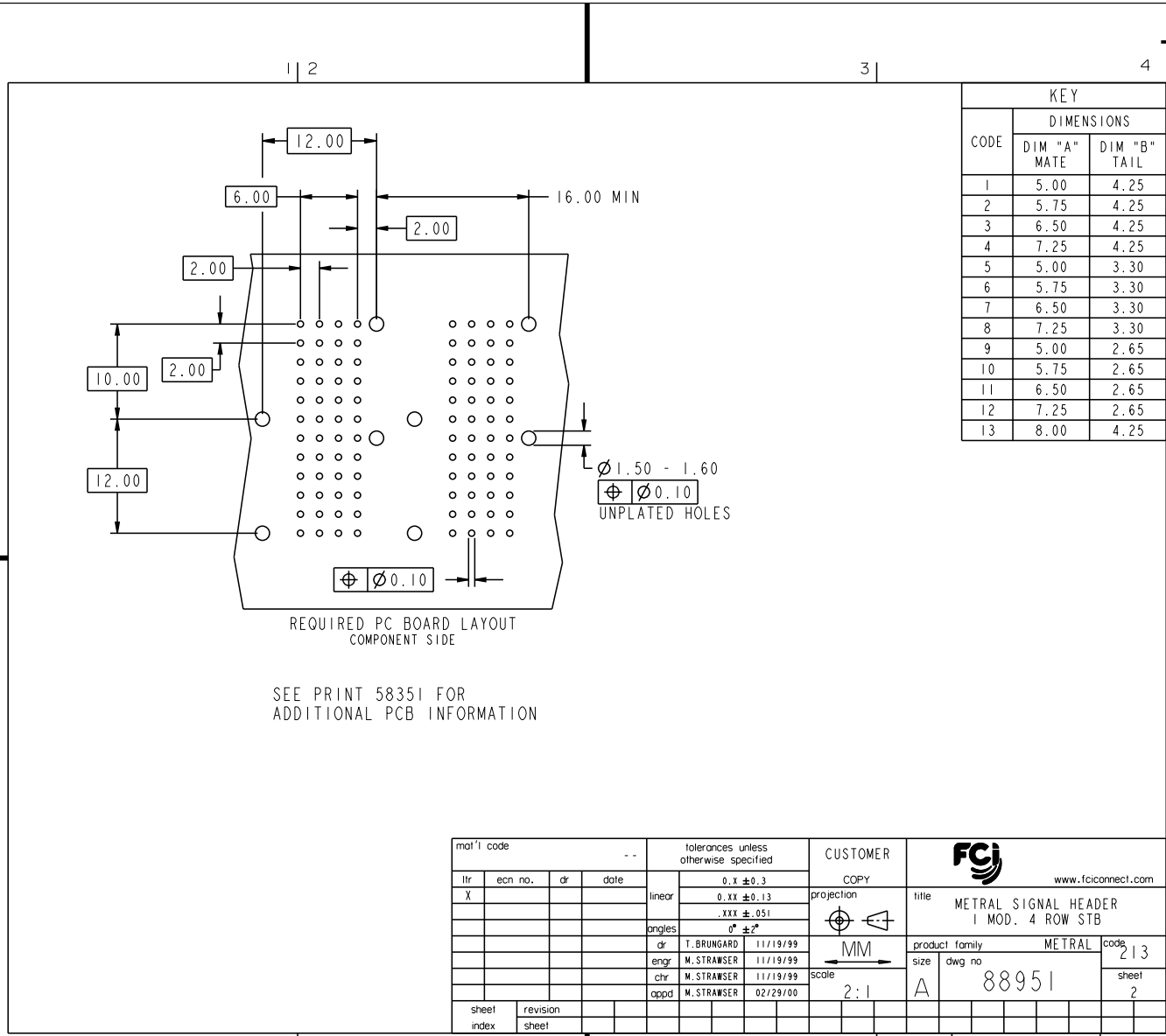
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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE

SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

|             |                |    |      |                                       |                      |            |       |                      |        |                    |      |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|-------|----------------------|--------|--------------------|------|
| mat'l code  |                |    |      | tolerances unless otherwise specified |                      | CUSTOMER   |       | FCJ                  |        | www.fcjconnect.com |      |
| lfr         | ecn no.        | dr | date | linear                                | 0.X ±0.3             | projection | COPY  | title                |        |                    |      |
| X           |                |    |      |                                       | 0.XX ±0.13           | MM         |       | METRAL SIGNAL HEADER |        |                    |      |
|             |                |    |      | angles                                | .XXX ±.051           | MM         |       | 1 MOD. 4 ROW STB     |        |                    |      |
|             |                |    |      | dr                                    | ∠ ±2°                | MM         |       | product family       | METRAL |                    |      |
|             |                |    |      | engr                                  | T. BRUNGARD 11/19/99 | MM         |       | size                 | dwg no |                    | code |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | MM         |       | A                    | 88951  |                    | 213  |
|             |                |    |      | oppd                                  | M. STRAWSER 02/29/00 | MM         | scale | 2:1                  |        | sheet              | 2    |
| sheet index | revision sheet |    |      |                                       |                      |            |       |                      |        |                    |      |
|             |                |    |      |                                       |                      |            |       | code code            | 22526  |                    | 4    |

REV E - 2006-04-18

PDM: Rev:X STATUS:Released Printed: Nov 30, 2009

1 | 2

3 |

4

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X01<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X05<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | C   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | B   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X09<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | C   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | B   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | A   | 4                   | 4 | 4 | 4 | 4 | 4 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X13<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X02<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X06<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 2                   | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X10<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | A   | 4                   | 4 | 4 | 4 | 4 | 4 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X15<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X03<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X07<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X11<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X16<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | C   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | B   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X04<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | C   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | B   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | A   | 4                   | 4 | 4 | 4 | 4 | 4 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X08<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | C   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | B   | 1                   | 1 | 1 | 1 | 1 | 1 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X12<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | C   | 3                   | 3 | 3 | 3 | 3 | 3 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 1                   | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X17<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | A   | 3                   | 3 | 3 | 3 | 3 | 3 |

|             |                |    |      |                                       |                      |                |        |                            |         |
|-------------|----------------|----|------|---------------------------------------|----------------------|----------------|--------|----------------------------|---------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER       |        | FCJ                        |         |
| ltr         | ecm no.        | dr | date | linear                                | 0.X ±0.3             | projection     | COPY   | www.fciconnect.com         |         |
| X           |                |    |      |                                       | 0.XX ±0.13           |                |        | title METRAL SIGNAL HEADER |         |
|             |                |    |      | angles                                | .XXX ±.051           |                |        | 1 MOD. 4 ROW STB           |         |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 | product family | METRAL | code                       | 213     |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | size           | dwg no | 88951                      | sheet 3 |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | scale          | 2:1    |                            |         |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |                |        |                            |         |
| sheet index | revision sheet |    |      |                                       |                      |                |        | code code                  | 22526   |

1 | 2

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REV E - 2006-04-18

Pro/E

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| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X31<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 5                   | 5 | 5 | 5 | 5 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X35<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 |
|  | C   | 7                   | 7 | 7 | 7 | 7 |
|  | B   | 7                   | 7 | 7 | 7 | 7 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X39<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 |
|  | C   | 8                   | 8 | 8 | 8 | 8 |
|  | B   | 8                   | 8 | 8 | 8 | 8 |
|  | A   | 8                   | 8 | 8 | 8 | 8 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X43<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 7                   | 7 | 7 | 7 | 7 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X32<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 5                   | 5 | 5 | 5 | 5 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X36<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 |
|  | C   | 6                   | 6 | 6 | 6 | 6 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 6                   | 6 | 6 | 6 | 6 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X40<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                   | 5 | 5 | 5 | 5 |
|  | C   | 6                   | 6 | 6 | 6 | 6 |
|  | B   | 7                   | 7 | 7 | 7 | 7 |
|  | A   | 8                   | 8 | 8 | 8 | 8 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X45<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X33<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 |
|  | C   | 6                   | 6 | 6 | 6 | 6 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X37<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 |
|  | C   | 6                   | 6 | 6 | 6 | 6 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X41<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 7                   | 7 | 7 | 7 | 7 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X46<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 |
|  | C   | 7                   | 7 | 7 | 7 | 7 |
|  | B   | 8                   | 8 | 8 | 8 | 8 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X34<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 |
|  | C   | 7                   | 7 | 7 | 7 | 7 |
|  | B   | 7                   | 7 | 7 | 7 | 7 |
|  | A   | 8                   | 8 | 8 | 8 | 8 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X38<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                   | 7 | 7 | 7 | 7 |
|  | C   | 5                   | 5 | 5 | 5 | 5 |
|  | B   | 5                   | 5 | 5 | 5 | 5 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X42<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                   | 8 | 8 | 8 | 8 |
|  | C   | 7                   | 7 | 7 | 7 | 7 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 5                   | 5 | 5 | 5 | 5 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |
|--|-----|---------------------|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 |
| 88951-X47<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 |
|  | C   | 6                   | 6 | 6 | 6 | 6 |
|  | B   | 6                   | 6 | 6 | 6 | 6 |
|  | A   | 7                   | 7 | 7 | 7 | 7 |

|             |                |    |      |                                       |                      |            |      |                |                                       |                    |       |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|------|----------------|---------------------------------------|--------------------|-------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |      | FCI            |                                       | www.fciconnect.com |       |
| ltr         | ecn no.        | dr | date | linear                                | 0.X ±0.3             | projection | COPY | title          | METRAL SIGNAL HEADER 1 MOD. 4 ROW STB |                    |       |
| X           |                |    |      | angles                                | .XXX ±.051           |            |      | product family | METRAL                                |                    | code  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 |            |      | size           | dwg no                                |                    | 213   |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | scale      |      | A              | 88951                                 |                    | sheet |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | 2:1        |      |                |                                       |                    | 4     |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |            |      |                |                                       |                    |       |
| sheet index | revision sheet |    |      |                                       |                      |            |      |                |                                       |                    |       |
|             |                |    |      |                                       |                      |            |      | code code      | 22526                                 |                    |       |



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| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X61<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | C   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | B   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | A   | 9                   | 9 | 9 | 9 | 9 | 9 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X65<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X69<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X73<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 9                   | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X62<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X66<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 10                  | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X70<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X75<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 9                   | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X63<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X67<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 9                   | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X71<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X76<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X64<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X68<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | A   | 9                   | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X72<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 9                   | 9  | 9  | 9  | 9  | 9  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X77<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

|             |                |    |      |                                       |                      |            |                |                      |       |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|----------------|----------------------|-------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |                | FCI                  |       |
| ltr         | ecn no.        | dr | date | linear                                | 0.X ±0.3             | projection | COPY           | www.fciconnect.com   |       |
| X           |                |    |      | angles                                | 0.XX ±0.13           |            | title          | METRAL SIGNAL HEADER |       |
|             |                |    |      | dr                                    | .XXX ±.051           | MM         | product family | METRAL               |       |
|             |                |    |      | eng                                   | T. BRUNGARD 11/19/99 | scale      | size           | dwg no               | code  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 | 2:1        | A              | 88951                | 213   |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |            |                |                      | sheet |
| sheet index | revision sheet |    |      |                                       |                      |            |                |                      | 5     |

1 | 2

3 |

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| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X78<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | C   | 2                   | 2 | 2 | 2 | 2 | 2 |
|  | B   | 4                   | 4 | 4 | 4 | 4 | 4 |
|  | A   | 2                   | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X82<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | C   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | B   | 9                   | 9 | 9 | 9 | 9 | 9 |
|  | A   | 9                   | 9 | 9 | 9 | 9 | 9 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X86<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | A   | 10                  | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X79<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|  | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|  | B   | 13                  | 13 | 13 | 13 | 13 | 13 |
|  | A   | 13                  | 13 | 13 | 13 | 13 | 13 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X83<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X87<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|  | A   | 10                  | 10 | 10 | 10 | 10 | 10 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X80<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|  | C   | 3                   | 3  | 3  | 3  | 3  | 3  |
|  | B   | 13                  | 13 | 13 | 13 | 13 | 13 |
|  | A   | 3                   | 3  | 3  | 3  | 3  | 3  |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X84<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X88<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X81<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 13                  | 13 | 13 | 13 | 13 | 13 |
|  | C   | 13                  | 13 | 13 | 13 | 13 | 13 |
|  | B   | 13                  | 13 | 13 | 13 | 13 | 13 |
|  | A   | 13                  | 13 | 13 | 13 | 13 | 13 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|--|-----|---------------------|----|----|----|----|----|
|  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 88951-X85<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |

| METRAL P/N                                     | ROW | CONTACT CODE MOD. 1 |   |   |   |   |   |
|--|-----|---------------------|---|---|---|---|---|
|  |     | 1                   | 2 | 3 | 4 | 5 | 6 |
| 88951-X89<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                   | 6 | 6 | 6 | 6 | 6 |
|  | C   | 6                   | 6 | 6 | 6 | 6 | 6 |
|  | B   | 8                   | 8 | 8 | 8 | 8 | 8 |
|  | A   | 6                   | 6 | 6 | 6 | 6 | 6 |

|             |                |    |      |                                       |                      |            |      |                            |          |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|------|----------------------------|----------|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |      | FCJ                        |          |
| ltr         | ecn no.        | dr | date | linear                                | 0.X ±0.3             | projection | COPY | www.fcjconnect.com         |          |
| X           |                |    |      |                                       | 0.XX ±0.13           |            |      | title METRAL SIGNAL HEADER |          |
|             |                |    |      | angles                                | .XXX ±.051           |            |      | 1 MOD. 4 ROW STB           |          |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 | scale      |      | product family             | METRAL   |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | 2:1        |      | size                       | dwg no   |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 |            |      | 88951                      | code 213 |
|             |                |    |      | appd                                  | M. STRAWSER 02/29/00 |            |      | sheet                      | 6        |
| sheet index | revision sheet |    |      |                                       |                      |            |      |                            |          |

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REV E - 2006-04-18

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Pro/E

PDM: Rev:X STATUS:Released Printed: Nov 30, 2009

code code 22526

|                |
|----------------|
| PRODUCT NUMBER |
| 88951-XXX      |
| 88951-XYLF     |

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 SOLDER TO BOARD:  
88951-XXX IS SnPb  
88951-XYLF 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-20-074
8. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
9. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 88951-XOILF
10. 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.

|             |                |    |      |                                       |                      |            |      |                      |        |                    |  |
|-------------|----------------|----|------|---------------------------------------|----------------------|------------|------|----------------------|--------|--------------------|--|
| mat'l code  |                | -- |      | tolerances unless otherwise specified |                      | CUSTOMER   |      | FCJ                  |        | www.fciconnect.com |  |
| litr        | ecn no.        | dr | date | linear                                | 0, X ±0,3            | projection | COPY | METRAL SIGNAL HEADER |        |                    |  |
| X           |                |    |      |                                       | 0, XX ±0,13          |            |      | 1 MOD. 4 ROW STB     |        |                    |  |
|             |                |    |      | angles                                | .XXX ±.051           |            |      | METRAL               |        |                    |  |
|             |                |    |      | dr                                    | T. BRUNGARD 11/19/99 | scale      |      | product family       | code   | 213                |  |
|             |                |    |      | eng                                   | M. STRAWSER 11/19/99 | 1:1        |      | size                 | dwg no | 7                  |  |
|             |                |    |      | chr                                   | M. STRAWSER 11/19/99 |            |      | 88951                |        | sheet              |  |
|             |                |    |      | oppd                                  | M. STRAWSER 02/29/00 |            |      |                      |        | 7                  |  |
| sheet index | revision sheet |    |      |                                       |                      |            |      |                      |        |                    |  |

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