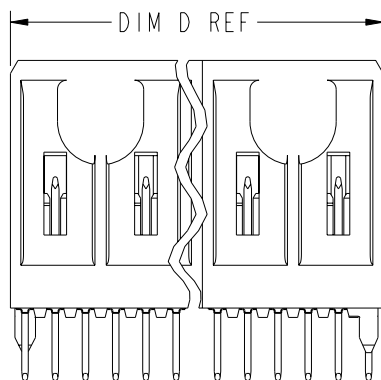
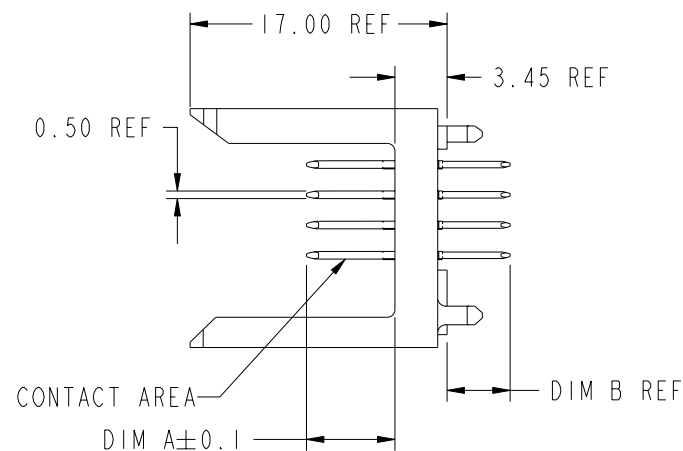
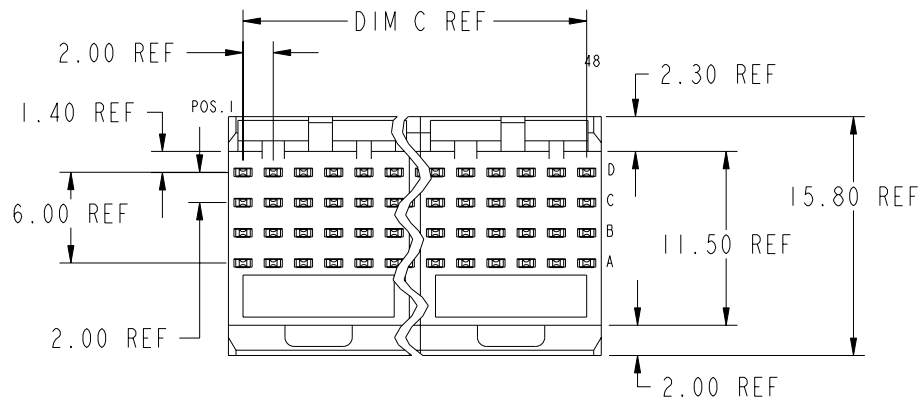




| PRODUCT NUMBER |
|----------------|
| 88962-XXX      |
| 88962-XXYLF    |



|             |          |                |            |        |             |                                          |                                    |          |                                   |                                                                |        |  |  |
|-------------|----------|----------------|------------|--------|-------------|------------------------------------------|------------------------------------|----------|-----------------------------------|----------------------------------------------------------------|--------|--|--|
| mat'l code  |          |                |            | --     |             | tolerances unless<br>otherwise specified |                                    | CUSTOMER |                                   | <div>FCi</div> <div>www.fciconnect.com</div>                   |        |  |  |
| ltr         | ecn no.  | dr             | date       | linear | 0.X ± 0.3   |                                          | COPY                               |          | <div>projection</div> <div></div> | <div>title</div> <div>METRAL SIGNAL HEADER<br/>4 ROW STB</div> |        |  |  |
| AD          | V06-0492 | DCH            | 2006-05-23 |        | 0.XX ± 0.13 |                                          |                                    |          |                                   |                                                                |        |  |  |
| -           | -        | -              | -          |        | .XXX ± .051 |                                          |                                    |          |                                   |                                                                |        |  |  |
| X           | V20266   | TAB            | 02/04/02   | angles | 0° ± 2°     |                                          | <div>MM</div> <div>scale 2:1</div> |          | product family                    |                                                                | code   |  |  |
| Y           | V20786   | CGD            | 04/25/02   | dr     | T.BRUNGARD  | 11/19/99                                 |                                    |          | METRAL                            |                                                                | 213    |  |  |
| AA          | V21670   | TAB            | 10/18/02   | enrg   | M.STRAWSE   |                                          | 11/19/99                           |          | size                              | dwg no                                                         | sheet  |  |  |
| AB          | V03-1059 | DAI            | 09/24/03   | chr    | M.STRAWSE   |                                          | 11/19/99                           |          | 88962                             |                                                                | 1 of 5 |  |  |
| AC          | V05-1126 | DAI            | 01/05/06   | appd   | M.STRAWSE   |                                          | 02/29/00                           |          |                                   |                                                                |        |  |  |
| sheet index |          | revision sheet |            | AD     | AD          | AD                                       | AD                                 |          |                                   |                                                                |        |  |  |
|             |          |                |            | 1      | 2           | 3                                        | 4                                  | 5        |                                   |                                                                |        |  |  |

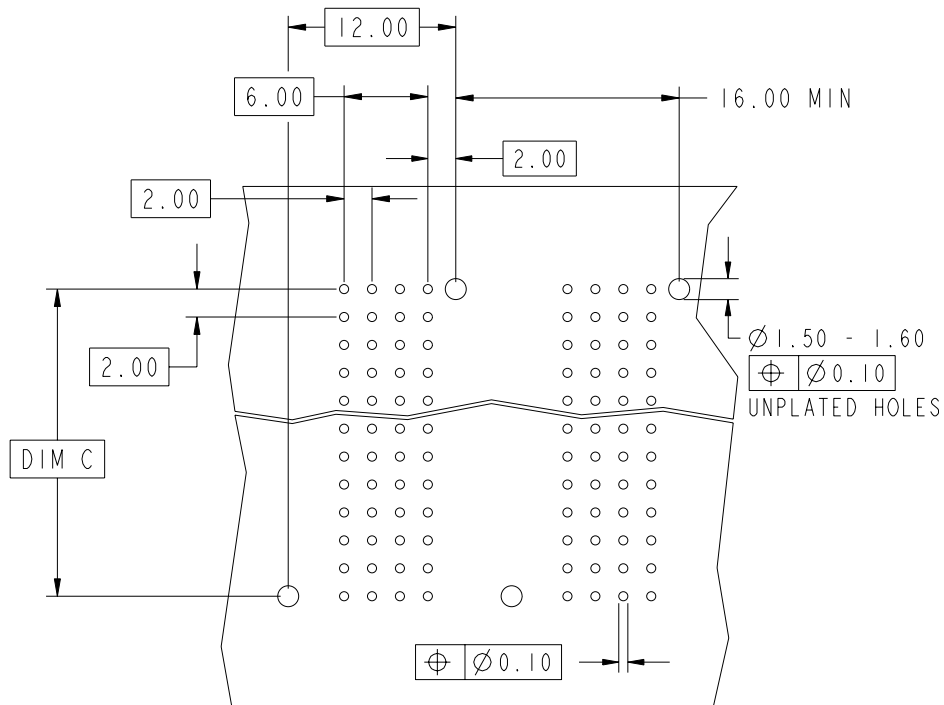
cage code 22526

Pro/E

PDM: Rev:AD

STATUS: Released

Printed: May 16, 2009



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            | 4.25            |
| 2    | 5.75            | 4.25            |
| 3    | 6.50            | 4.25            |
| 5    | 5.00            | 3.30            |
| 6    | 5.75            | 3.30            |
| 7    | 6.50            | 3.30            |
| 8    | 7.25            | 3.30            |
| 13   | 8.00            | 4.25            |

|             |         |                |      |                                          |              |          |       |                                              |                                                                |        |        |  |       |  |
|-------------|---------|----------------|------|------------------------------------------|--------------|----------|-------|----------------------------------------------|----------------------------------------------------------------|--------|--------|--|-------|--|
| mat'l code  |         |                |      | tolerances unless<br>otherwise specified |              | CUSTOMER |       | <div>FCi</div> <div>www.fciconnect.com</div> |                                                                |        |        |  |       |  |
| ltr         | ecr no. | dr             | date | linear                                   | 0. X ± 0.3   |          | COPY  |                                              | <div>projection</div> <div></div>                              |        |        |  |       |  |
| AD          |         |                |      |                                          | 0. XX ± 0.13 |          |       |                                              |                                                                |        |        |  |       |  |
|             |         |                |      |                                          | . XXX ± .051 |          |       |                                              |                                                                |        |        |  |       |  |
|             |         |                |      | angles                                   | 0° ± 2°      |          |       |                                              | <div>title</div> <div>METRAL SIGNAL HEADER<br/>4 ROW STB</div> |        |        |  |       |  |
|             |         |                |      | dr                                       | T.BRUNGARD   | 11/19/99 |       |                                              |                                                                |        |        |  |       |  |
|             |         |                |      | enrg                                     | M.STRAWSE    | 11/19/99 |       |                                              |                                                                |        |        |  |       |  |
|             |         |                |      | chr                                      | M. STAWSE    | 11/19/99 |       |                                              | product family                                                 |        | METRAL |  | code  |  |
|             |         |                |      | appd                                     | M.STRAWSE    | 02/29/00 | scale |                                              | size                                                           | dwg no | 213    |  | sheet |  |
|             |         |                |      |                                          |              | 2:1      |       | A                                            | 88962                                                          |        | 2      |  |       |  |
| sheet index |         | revision sheet |      |                                          |              |          |       |                                              |                                                                |        |        |  |       |  |

cage code 22526

Pro/E

PDM: Rev:AD

STATUS: Released Printed: May 16, 2009



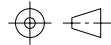


| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 88962-X05<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 46.00 | 47.93 | D   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 6  | 5  | 5  | 5  |    |
|                                                |       |       | C   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 6  | 5  | 5  | 5  |
|                                                |       |       | B   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 6  | 5  | 5  | 5  |
|                                                |       |       | A   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 6  | 5  | 5  | 5  |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 88962-X06<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 94.00 | 95.93 | D   | 6                      | 6 | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 5  | 5  | 5  | 5      | 8  | 8  | 8  | 8  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88962-X07<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 10.00 | 11.93 | D   | -                      | I | - | I | - | I |
|                                                |       |       | C   | I                      | - | I | - | I | - |
|                                                |       |       | B   | -                      | I | - | I | - | I |
|                                                |       |       | A   | I                      | - | I | - | I | - |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88962-X08<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 10.00 | 11.93 | D   | I                      | - | I | - | I | - |
|                                                |       |       | C   | -                      | I | - | I | - | I |
|                                                |       |       | B   | I                      | - | I | - | I | - |
|                                                |       |       | A   | -                      | I | - | I | - | I |

|            |         |          |      |                                          |            |          |                                                                                       |                                                                                                          |       |  |
|------------|---------|----------|------|------------------------------------------|------------|----------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------|--|
| mat'l code |         |          |      | tolerances unless<br>otherwise specified |            | CUSTOMER |                                                                                       |  www.fciconnect.com |       |  |
| ltr        | ecn no. | dr       | date | linear                                   | 0.X ±0.3   |          | projection                                                                            | COPY                                                                                                     |       |  |
| AD         |         |          |      |                                          | 0.XX ±0.13 |          |                                                                                       | title                                                                                                    |       |  |
|            |         |          |      |                                          | .XXX ±.051 |          |                                                                                       | METRAL SIGNAL HEADER<br>4 ROW STB                                                                        |       |  |
|            |         |          |      | angles                                   | 0° ±2°     |          |  | product family                                                                                           |       |  |
|            |         |          |      | dr                                       | T.BRUNGARD | 11/19/99 | METRAL                                                                                |                                                                                                          |       |  |
|            |         |          |      | enrg                                     | M.STRAWSER | 11/19/99 | code                                                                                  |                                                                                                          |       |  |
|            |         |          |      | chr                                      | M.STRAWSER | 11/19/99 | scale                                                                                 | size                                                                                                     |       |  |
|            |         |          |      | appd                                     | M.STRAWSER | 02/29/00 |                                                                                       | dwg no                                                                                                   |       |  |
| sheet      |         | revision |      |                                          |            |          | A                                                                                     |                                                                                                          | 88962 |  |
| index      |         | sheet    |      |                                          |            |          |                                                                                       |                                                                                                          | 213   |  |
|            |         |          |      |                                          |            |          |                                                                                       |                                                                                                          | sheet |  |
|            |         |          |      |                                          |            |          |                                                                                       |                                                                                                          | 4     |  |



| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88962-X09<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 10.00 | 11.93 | D   | 3                      | 3 | - | 3 | 3 | - |
|                                                |       |       | C   | -                      | - | - | - | - | - |
|                                                |       |       | B   | -                      | - | - | - | - | - |
|                                                |       |       | A   | 3                      | 3 | - | 3 | 3 | - |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    |
|------------------------------------------------|-------|-------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|
|                                                |       |       |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 |
| 88962-X10<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 22.00 | 23.93 | D   | 3                      | 3 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | -  | 1  | 1  |
|                                                |       |       | C   | 3                      | 3 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | -  | 1  | 1  |
|                                                |       |       | B   | 3                      | 3 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | -  | 1  | 1  |
|                                                |       |       | A   | 3                      | 3 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | -  | 1  | 1  |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    |    |
|------------------------------------------------|-------|-------|-----|------------------------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                |       |       |     | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 |    |
| 88962-X11<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 34.00 | 35.93 | D   | 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  |    |
|                                                |       |       | B   | 13                     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                |       |       | A   | 3                      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL<br>P/N                                  | DIM C | DIM D | ROW | CONTACT CODE<br>MOD. 1 |   |    |    |   |   | MOD. 2 |   |    |    |    |
|------------------------------------------------|-------|-------|-----|------------------------|---|----|----|---|---|--------|---|----|----|----|
|                                                |       |       |     | 1                      | 2 | 3  | 4  | 5 | 6 | 7      | 8 | 9  | 10 | 11 |
| 88962-X12<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | 22.00 | 23.93 | D   | 13                     | 1 | 13 | 13 | 1 | 1 | 1      | 1 | 13 | 13 | 3  |
|                                                |       |       | C   | 13                     | 1 | 13 | 13 | 1 | 1 | 1      | 1 | 13 | 13 | 3  |
|                                                |       |       | B   | 13                     | 1 | 13 | 13 | 1 | 1 | 1      | 1 | 13 | 13 | 3  |
|                                                |       |       | A   | 13                     | 1 | 13 | 13 | 1 | 1 | 1      | 1 | 13 | 13 | 3  |

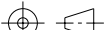
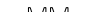
| PLATING IN CONTACT AREA |                                   |            |
|-------------------------|-----------------------------------|------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | NOTES      |
| -NIYY                   | TELCORDIA CO (NXT)                |            |
| -N5YY                   | TELCORDIA UE (NXT)                |            |
| -1YY                    | TELCORDIA CO                      |            |
| -2YY                    | TELECOM CLASS                     |            |
| -3YY                    | IEC CLASS I                       |            |
| -5YY                    | TELCORDIA UE                      |            |
| -9YY                    | TELCORDIA CO                      |            |
| -NIYYLF                 | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 8 |
| -N5YYLF                 | TELCORDIA UE (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 |

#### NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS FIT TAIL:  
88962-XYX IS SnPb.  
88962-XYXLF IS Sn (LEAD FREE)  
PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE  
PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL  
BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP AND XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
- THE PRODUCTS WHERE THE PART NUMBERS END IN "LF" MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING  
(DRAWING NO.) -N1--- OR (DRAWING NO.) -N5--- WILL WITHSTAND  
EXPOSURE TO 260° C FOR 60 SECONDS IN A CONVECTION, INFRA-RED  
OR VAPOR PHASE REFLOW OVEN.

PART NUMBERS (DRAWING NO.) -N1--- OR (DRAWING NO.) -N5---  
WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE  
CONTACTS SHALL BE EXPOSED TO A MAXIMUM OF 140° C FOR NO LONGER  
THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.  
FOR LEAD FREE PART NUMBERS, ADD "LF" SUFFIX.  
EXAMPLE: 88962-X01LF OR 88962-X01PLF

|                |                   |    |      |        |            |                                          |       |                                                                                       |   |                                            |       |        |      |
|----------------|-------------------|----|------|--------|------------|------------------------------------------|-------|---------------------------------------------------------------------------------------|---|--------------------------------------------|-------|--------|------|
| mat'l code     |                   |    |      | - -    |            | tolerances unless<br>otherwise specified |       | CUSTOMER                                                                              |   | FCi<br><br>www.fciconnect.com              |       |        |      |
| lfr            | ecn no.           | dr | date | linear | 0.X ±0.3   |                                          |       | COPY                                                                                  |   | title<br>METRAL SIGNAL HEADER<br>4 ROW STB |       |        |      |
| AD             |                   |    |      |        | 0.XX ±0.13 |                                          |       | projection                                                                            |   |                                            |       |        |      |
|                |                   |    |      |        | .XXX ±.051 |                                          |       |  |   |                                            |       |        |      |
|                |                   |    |      | angles | 0° ±2°     |                                          |       |  |   | product family                             |       | METRAL | code |
|                |                   |    |      | dr     | T.BRUNGARD | 11/19/99                                 | size  |                                                                                       |   | dwg no                                     | 213   |        |      |
|                |                   |    |      | engr   | M.STRAWSE  | 11/19/99                                 | scale |                                                                                       | A | 88962                                      | sheet |        |      |
|                |                   |    |      | chr    | M.STRAWSE  | 11/19/99                                 | 1 : 1 |                                                                                       |   |                                            | 5     |        |      |
|                |                   |    |      | appd   | M.STRAWSE  | 02/29/00                                 |       |                                                                                       |   |                                            |       |        |      |
| sheet<br>index | revision<br>sheet |    |      |        |            |                                          |       |                                                                                       |   |                                            |       |        |      |

Pro/E

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cage code 22526

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PDM: Rev:AD

STATUS: Released

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