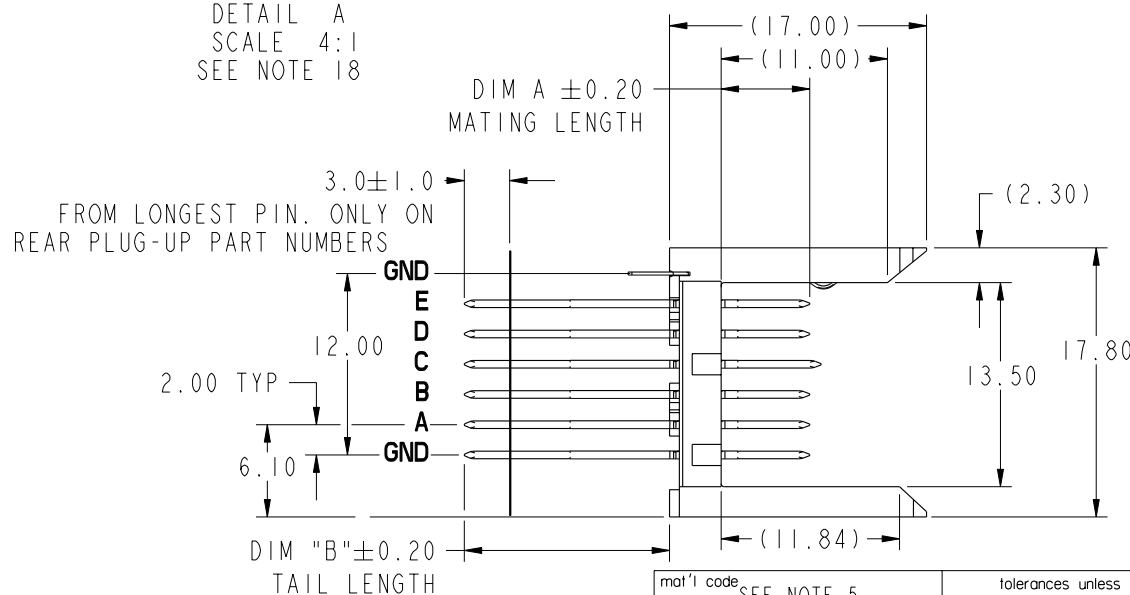




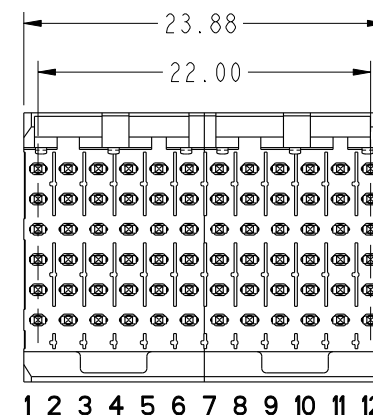
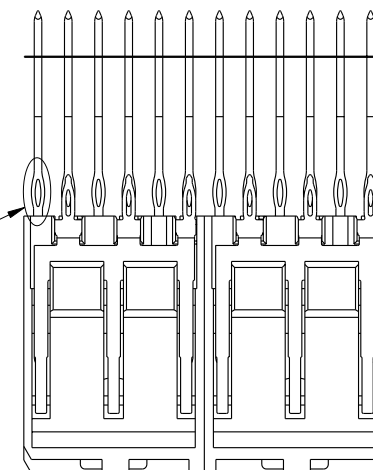
| PRODUCT NUMBER | PLATING PERFORMANCE LEVEL | APPLICATION | SHROUD FOR REAR PLUG UP APPLICATIONS |
|----------------|---------------------------|-------------|--------------------------------------|
| 63743-1YYY     | TELCORDIA CO              | STANDARD    | 84818-102                            |
| 63743-1YYYYLF  |                           | LEAD FREE   | 84818-102LF                          |
| 63743-5YYY     | TELCORDIA UE              | STANDARD    | 84818-502                            |
| 63743-5YYYYLF  |                           | LEAD FREE   | 84818-502LF                          |
| 63743-9YYY     | TELCORDIA CO              | STANDARD    | 84818-102                            |
| 63743-9YYYYLF  |                           | LEAD FREE   | 84818-102LF                          |

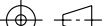
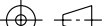


DETAIL A  
SCALE 4:1  
SEE NOTE 18



SEE DETAIL A



|                       |                |     |            |                                       |            |            |                                                                                       |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |
|-----------------------|----------------|-----|------------|---------------------------------------|------------|------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|--------------------|-------|---|
| mat'l code SEE NOTE 5 |                |     |            | tolerances unless otherwise specified |            |            |                                                                                       | CUSTOMER                                                                                            |                                                                                       |  |        | www.fciconnect.com |       |   |
| ltr                   | ecn no.        | dr  | date       | linear                                | 0.X ±0.3   |            |                                                                                       | projection<br> |  | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD                    |        |                    |       |   |
| P                     | V06-0498       | DCH | 2006-06-05 |                                       | 0.XX ±0.13 |            |                                                                                       |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |
| R                     | V06-0779       | DAI | 2006-08-11 | .XXX ±.051                            |            |            |                                                                                       |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |
| S                     | V07-0182       | DCH | 2007-04-20 | angles                                | 0° ±2°     |            |                                                                                       |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |
| T                     | V07-0733       | HTB | 2008-01-02 |                                       | dr         | K. BELL    | 2000-03-15                                                                            | product family METRAL 1000                                                                          |                                                                                       | code                                                                                  |        |                    |       |   |
| U                     | V08-0049       | LP  | 2008-2-4   | enrg                                  | M. HAHN    | 2000-03-15 |  |                                                                                                     | size                                                                                  |                                                                                       | dwg no |                    | 213   |   |
| -                     | -              | -   | -          | chr                                   | M. HAHN    | 2000-03-15 |                                                                                       |                                                                                                     | scale                                                                                 |                                                                                       | A      |                    | 63743 |   |
| N                     | V05-0533       | TAB | 2005-06-01 | appd                                  | M. HAHN    | 2000-03-15 | 1:1                                                                                   |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |
| sheet index           | revision sheet | U   | U          | U                                     | U          | U          | U                                                                                     | U                                                                                                   | U                                                                                     | U                                                                                     | U      | U                  | U     | U |
|                       |                | 1   | 2          | 3                                     | 4          | 5          | 6                                                                                     |                                                                                                     |                                                                                       |                                                                                       |        |                    |       |   |



VERTICAL SIGNAL HDR 5 ROW  
P.F. 60 POS. SELECT LOAD STD.

product family METRAL 1000 code 213

size 63743 sheet 1 of 6

cage code 22526

Pro/E

3

4

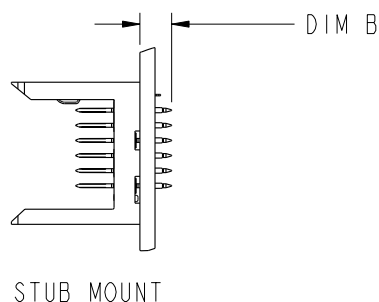
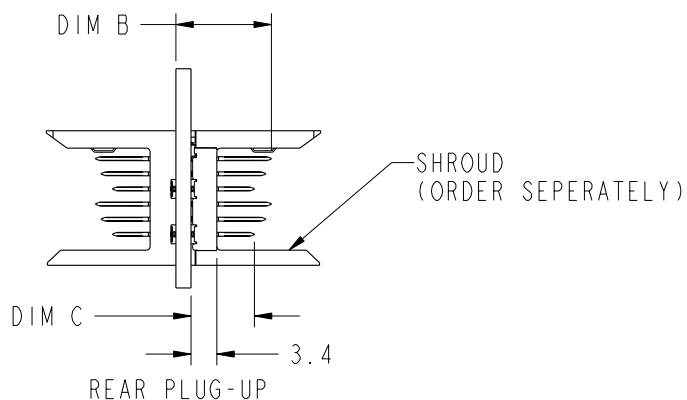
PDM: Rev:U

STATUS: Released

Printed: May 13, 2011

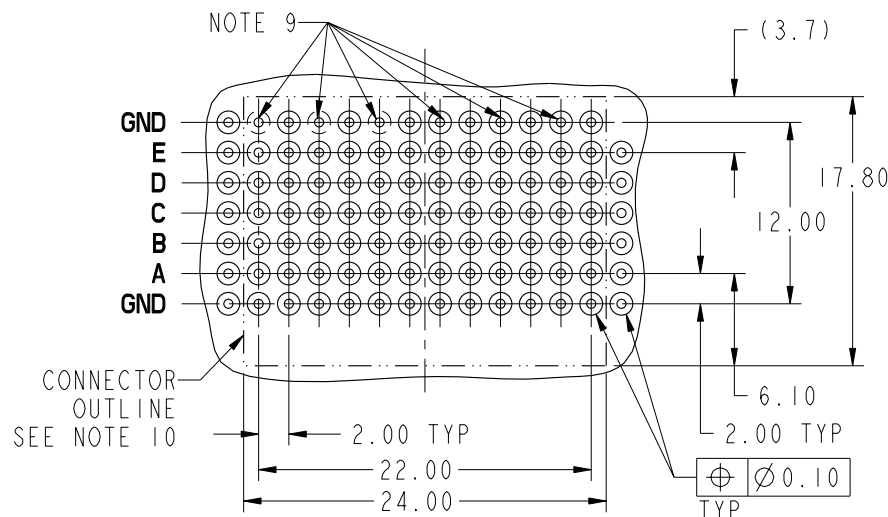


PRODUCT NUMBER  
SEE SHEET 1



| PRESS-FIT HOLES                | OPTION 1    | OPTION 2                  |
|--------------------------------|-------------|---------------------------|
| HOLE DIAMETER<br>AFTER PLATING | 0.65-0.77   | 0.65-0.80                 |
| DRILLED HOLE                   | 0.78-0.83   | 0.81-0.86<br>(0.85 DRILL) |
| COPPER PLATING                 | 0.025-0.050 | 0.025 MIN                 |
| SnPb PLATING                   | 0.005-0.015 | 0.005-0.015               |

SEE PRINT 58351 FOR  
ADDITIONAL PCB INFO.



RECOMMENDED PCB HOLE PATTERN  
(COMPONENT SIDE)

|                          |                   |    |      |                                          |                    |            |       |                                                                       |  |  |  |
|--------------------------|-------------------|----|------|------------------------------------------|--------------------|------------|-------|-----------------------------------------------------------------------|--|--|--|
| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |                    | CUSTOMER   |       | FCI<br>www.fciconnect.com                                             |  |  |  |
| ltr                      | ecr no.           | dr | date | linear                                   | 0.X ± 0.3          | projection | COPY  | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD.   |  |  |  |
| U                        |                   |    |      |                                          | 0.XX ± 0.13        |            |       |                                                                       |  |  |  |
|                          |                   |    |      |                                          | .XXX ± .051        |            |       |                                                                       |  |  |  |
|                          |                   |    |      | angles                                   | 0° ± 2°            | MM<br>1:1  | scale | product family METRAL 1000 code<br>size dwg no 213<br>A 63743 sheet 2 |  |  |  |
|                          |                   |    |      | dr                                       | K. BELL 2000-03-15 |            |       |                                                                       |  |  |  |
|                          |                   |    |      | enrg                                     | M. HAHN 2000-03-15 |            |       |                                                                       |  |  |  |
|                          |                   |    |      | chr                                      | M. HAHN 2000-03-15 |            |       |                                                                       |  |  |  |
|                          |                   |    |      | appd                                     | M. HAHN 2000-03-15 |            |       |                                                                       |  |  |  |
| sheet<br>index           | revision<br>sheet |    |      |                                          |                    |            |       | cage code 22526                                                       |  |  |  |

Pro/E

3

cage code 22526

4

PDM: Rev:U

STATUS: Released Printed: May 13, 2011



| PIN<br>CODE<br>NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN'S TAIL LENGTH |             |                                                         |             |             |
|--------------------|---------------------------|-------------------------|----------------------------------------------------------|-------------|---------------------------------------------------------|-------------|-------------|
|                    |                           |                         | WHEN MATING TO A 73981 OR<br>84688 SERIES RECEPTACLE     |             | WHEN MATING TO A 52057 SERIES<br>METRAL 4000 RECEPTACLE |             |             |
|                    |                           |                         | ROWS A,B,C,D,E                                           | GROUND ROW  | ROWS:A,B,D,E                                            | ROW C       | GROUND ROW  |
| 01*                | 5.00                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 22                 |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 30                 |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 05                 |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 35                 |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 48                 |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 40                 |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 65                 |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 09                 |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 02*                | 5.75                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 44                 |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 31                 |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 06                 |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 36                 |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 49                 |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 25                 |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 66                 |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 10                 |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 03*                | 6.50                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 45                 |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 32                 |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 07                 |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 37                 |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 50                 |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 41                 |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 24                 |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 11                 |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |

\* STUB PINS - NO REAR PLUG-UP

\*\* THE GREATEST RANGE OCCURS  
WHEN THE B DIMENSION OF PIN  
'GND' IS ONE SIZE SHORTER  
THEN THE OTHER PINS.

|                       |                |    |      |                                          |            |            |            |                           |                                                                     |
|-----------------------|----------------|----|------|------------------------------------------|------------|------------|------------|---------------------------|---------------------------------------------------------------------|
| mat'l code SEE NOTE 5 |                |    |      | tolerances unless<br>otherwise specified |            | CUSTOMER   |            | FCI<br>www.fciconnect.com |                                                                     |
| ltr                   | ecn no.        | dr | date | linear                                   | 0.X ±0.3   |            | COPY       |                           | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD. |
| U                     |                |    |      |                                          | 0.XX ±0.13 |            | projection |                           |                                                                     |
|                       |                |    |      |                                          | .XXX ±.051 |            |            |                           |                                                                     |
|                       |                |    |      | angles                                   | 0° ±2°     |            |            |                           |                                                                     |
|                       |                |    |      | dr                                       | K. BELL    | 2000-03-15 | MM         |                           | product family METRAL 1000                                          |
|                       |                |    |      | engr                                     | M. HAHN    | 2000-03-15 |            |                           | code 213                                                            |
|                       |                |    |      | chr                                      | M. HAHN    | 2000-03-15 | scale 1:1  |                           | sheet 3                                                             |
|                       |                |    |      | appd                                     | M. HAHN    | 2000-03-15 | A          |                           | 63743                                                               |
| sheet index           | revision sheet |    |      |                                          |            |            |            |                           | cage code 22526                                                     |



| PIN<br>CODE<br>NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN LENGTH    |             |                                                         |             |             |
|--------------------|---------------------------|-------------------------|------------------------------------------------------|-------------|---------------------------------------------------------|-------------|-------------|
|                    |                           |                         | WHEN MATING TO A 73981 OR<br>84688 SERIES RECEPTACLE |             | WHEN MATING TO A 52057 SERIES<br>METRAL 4000 RECEPTACLE |             |             |
|                    |                           |                         | ROWS A,B,C,D,E                                       | GROUND ROW  | ROWS:A,B,D,E                                            | ROW C       | GROUND ROW  |
| 04*                | 7.25                      | 4.30                    | 1.60 MIN                                             | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 46                 |                           | 12.20                   | 2.95 - 3.80                                          | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 33                 |                           | 12.95                   | 2.95 - 4.55                                          | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 08                 |                           | 13.70                   | 2.95 - 5.30                                          | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 38                 |                           | 14.45                   | 3.05 - 6.05                                          | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 51                 |                           | 15.20                   | 3.80 - 6.80                                          | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 42                 |                           | 15.70                   | 4.30 - 7.30                                          | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 67                 |                           | 16.40                   | 5.00 - 8.00                                          | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 12                 |                           | 17.10                   | 5.70 - 8.70                                          | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 19*                | 8.00                      | 4.30                    | 1.60 MIN                                             | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 47                 |                           | 12.20                   | 2.95 - 3.80                                          | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 34                 |                           | 12.95                   | 2.95 - 4.55                                          | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 20                 |                           | 13.70                   | 2.95 - 5.30                                          | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 39                 |                           | 14.45                   | 3.05 - 6.05                                          | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 52                 |                           | 15.20                   | 3.80 - 6.80                                          | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 43                 |                           | 15.70                   | 4.30 - 7.30                                          | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 68                 |                           | 16.40                   | 5.00 - 8.00                                          | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 21                 |                           | 17.10                   | 5.70 - 8.70                                          | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |

\* STUB PINS - NO REAR PLUG-UP

\*\* THE GREATEST RANGE OCCURS  
WHEN THE B DIMENSION OF PIN  
'GND' IS ONE SIZE SHORTER  
THEN THE OTHER PINS.

|                          |          |    |      |                                          |            |                   |                |                           |                                                            |      |        |     |
|--------------------------|----------|----|------|------------------------------------------|------------|-------------------|----------------|---------------------------|------------------------------------------------------------|------|--------|-----|
| mat'l code<br>SEE NOTE 5 |          |    |      | tolerances unless<br>otherwise specified |            | CUSTOMER          |                | FCI<br>www.fciconnect.com |                                                            |      |        |     |
| ltr                      | ecn no.  | dr | date | linear                                   | 0.X ±0.3   | projection        | COPY           | title                     | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD. |      |        |     |
| U                        |          |    |      |                                          | 0.XX ±0.13 |                   |                |                           |                                                            |      |        |     |
|                          |          |    |      |                                          | .XXX ±.051 |                   |                |                           |                                                            |      |        |     |
|                          |          |    |      | angles                                   | 0° ±2°     | <br>MM<br><br>1:1 | product family | METRAL 1000               | code                                                       |      |        |     |
|                          |          |    | dr   | K. BELL                                  | 2000-03-15 |                   |                |                           |                                                            | size | dwg no | 213 |
|                          |          |    | enrg | M. HAHN                                  | 2000-03-15 |                   |                |                           |                                                            |      |        |     |
|                          |          |    | chr  | M. HAHN                                  | 2000-03-15 |                   |                |                           |                                                            |      |        |     |
|                          |          |    |      | appd                                     | M. HAHN    | 2000-03-15        |                |                           | sheet                                                      |      |        |     |
|                          |          |    |      |                                          |            |                   |                |                           | 4                                                          |      |        |     |
| sheet                    | revision |    |      |                                          |            |                   |                |                           |                                                            |      |        |     |
| index                    | sheet    |    |      |                                          |            |                   |                |                           |                                                            |      |        |     |



| SELECT LOAD PATTERNS                                   |     |              |    |    |    |    |    |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X001<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 04           | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X002<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | C   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X003<br>*RPU<br><br>FOR LEAD FREE<br>SEE NOTE 16 | E   | 18           | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
|                                                        | D   | 18           | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
|                                                        | C   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                        | B   | 48           | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
|                                                        | A   | 48           | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
|                                                        | GND | 48           | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X004<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 19           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 19           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 19           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 19           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 19           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X005<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 01 | 03 | 01 | 01 | 03 | 01 | 01 | 03 | 01 | 03 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

\*REAR PLUG-UP PART NUMBER

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|
| 63743-X006<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | D   | 02           | 01 | 01 | 01 | 01 | 01 | 02 | 01 | 01 | 01 | 01 |
|                                                        | C   | 02           | 01 | 01 | 01 | 01 | 01 | 02 | 01 | 01 | 01 | 01 |
|                                                        | B   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                        | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X007<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 02           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X008<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 02           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 02           | 02 | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                        | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X009<br>*RPU<br><br>FOR LEAD FREE<br>SEE NOTE 16 | E   | 06           | 05 | 06 | 05 | 06 | 05 | 06 | 05 | 06 | 05 | 06 |
|                                                        | D   | 06           | 06 | 06 | 06 | 06 | 05 | 06 | 05 | 05 | 05 | 05 |
|                                                        | C   | 06           | 05 | 05 | 05 | 05 | 06 | 05 | 05 | 05 | 05 | 05 |
|                                                        | B   | 06           | 05 | 05 | 05 | 05 | 06 | 05 | 05 | 05 | 05 | 05 |
|                                                        | A   | 06           | 05 | 05 | 05 | 05 | 06 | 05 | 05 | 05 | 05 | 05 |
|                                                        | GND | 31           | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X010<br><br>FOR LEAD FREE<br>SEE NOTE 16         | E   | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |
|                                                        | D   | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |
|                                                        | C   | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |
|                                                        | B   | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |
|                                                        | A   | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |
|                                                        | GND | 55           | 55 | 02 | 02 | 02 | 02 | 55 | 55 | 55 | 55 | 55 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|
| 63743-X011<br><br>FOR LEAD FREE<br>SEE NOTE 16 | E   | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
|                                                | D   | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
|                                                | C   | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
|                                                | B   | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
|                                                | A   | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
|                                                | GND | 55           | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |
| 63743-X012<br><br>FOR LEAD FREE<br>SEE NOTE 16 | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | GND | -            | 02 | 02 | 02 | 02 | -  | -  | 02 | 02 | 02 | -  |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
3.25 - 4.99 FOR  
METRAL 1000  
RECEPTACLE  
APPLICATIONS AND 3.30 - 4.95  
FOR METRAL  
4000 APPLICATIONS

NOT A STANDARD METRAL 1000  
OR METRAL 4000 APPLICATION

| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |                    | CUSTOMER       |                                                                             |
|--------------------------|-------------------|----|------|------------------------------------------|--------------------|----------------|-----------------------------------------------------------------------------|
| ltr                      | ecr no.           | dr | date | linear                                   | 0.X ±0.3           | projection<br> | COPY<br>title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD. |
| U                        |                   |    |      |                                          | 0.XX ±0.13         |                |                                                                             |
|                          |                   |    |      |                                          | .XXX ±.051         |                |                                                                             |
|                          |                   |    |      | angles                                   | 0° ±2°             | MM<br>         | product family METRAL 1000<br>size<br>A                                     |
|                          |                   |    |      | dr                                       | K. BELL 2000-03-15 |                |                                                                             |
|                          |                   |    |      | enrg                                     | M. HAHN 2000-03-15 |                |                                                                             |
|                          |                   |    |      | chr                                      | M. HAHN 2000-03-15 | scale<br>1:1   | dwg no<br>63743                                                             |
|                          |                   |    |      | appd                                     | M. HAHN 2000-03-15 |                |                                                                             |
| sheet<br>index           | revision<br>sheet |    |      |                                          |                    |                |                                                                             |
|                          |                   |    |      |                                          |                    |                | code<br>213<br>sheet<br>5                                                   |

SFF SHEET 1

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.

3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."

4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994

5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED,  
FLAME RETARDANT PER UL 94-V0.  
PIN MATERIAL: PHOSPHOR BRONZE  
GROUND SPRING MATERIAL: PHOSPHOR BRONZE

6. PLATING INFORMATION: PLATING IN CONTACT AREAS MEET PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn ONLY. ALL OTHERS ARE SnPb.

## 7. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.

FOR MATING WITH METRAL 1000 RECEPTACLES

DIM A : 5.00mm MIN. 8.00mm MAX FOR ROWS A-E

DIM A : 5.00mm MIN. 5.75mm MAX FOR ROW GND NEXT TO ROW A

DIM C : 5.00mm MIN. 8.00mm MAX FOR ROWS A-E

DIM C : 4.60mm MIN. 6.30mm MAX FOR ROW GND NEXT TO ROW A

FOR MATING WITH METRAL 4000 RECEPTACLES

DIM A : 5.00mm MIN. 6.50mm MAX FOR ROWS A, B, D & E

DIM A : 5.00mm MIN. 8.00mm MAX FOR ROW C

DIM A : 5.00mm MIN. 5.75mm MAX FOR ROW GND NEXT TO ROW A

DIM C : 5.00mm MIN. 7.00mm MAX FOR ROWS A, B, D & E

DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C

DIM C : 4.60mm MIN. 6.30mm MAX FOR ROW GND NEXT TO ROW A

8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD.

THE MIN PCB THICKNESS FOR FRONT  
PLUG-UP ONLY APPLICATIONS IS 1.6mm.

9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.

11. CURRENT RATING: 1 AMP PER PIN

12. TEMPERATURE RANGE: -55°C TO +105°C

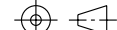
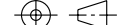
13. P/N 63743-XYYYLF

LEAD FREE (OPTIONAL)  
SELECT LOAD PATTERN  
PLATING CODE

14. A PLATING HAS Au FLASH IN PRESS-FIT AREA (LEAD FREE).
15. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

16. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 63743-X01LF
17. EQUIVALENT PRECIOUS METAL PLATINGS MAY BE SUBSTITUTED.
18. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN  
BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

|                       |         |                |      |                                       |                  |            |                                                                                       |                                                                                                                                                  |  |         |     |
|-----------------------|---------|----------------|------|---------------------------------------|------------------|------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|-----|
| mat'l code SEE NOTE 5 |         |                |      | tolerances unless otherwise specified |                  | CUSTOMER   |                                                                                       |  <a href="http://www.fciconnect.com">www.fciconnect.com</a> |  |         |     |
| lfr                   | ecn no. | dr             | date | linear                                | 0. X $\pm$ 0.3   |            | COPY                                                                                  |                                                             |  |         |     |
| U                     |         |                |      |                                       | 0. XX $\pm$ 0.13 |            |                                                                                       |                                                                                                                                                  |  |         |     |
|                       |         |                |      |                                       | .XXX $\pm$ .051  |            |                                                                                       |                                                                                                                                                  |  |         |     |
|                       |         |                |      | angles                                | 0° $\pm$ 2°      |            |  | title VERTICAL SIGNAL HDR 5 ROW<br>P.F. 60 POS. SELECT LOAD STD                                                                                  |  |         |     |
|                       |         |                |      | dr                                    | K. BELL          | 2000-03-15 |                                                                                       |                                                                                                                                                  |  |         |     |
|                       |         |                |      | enrg                                  | M. HAHN          | 2000-03-15 |                                                                                       |                                                                                                                                                  |  |         |     |
|                       |         |                |      | chr                                   | M. HAHN          | 2000-03-15 |                                                                                       |                                                                                                                                                  |  |         |     |
|                       |         |                |      | appd                                  | M. HAHN          | 2000-03-15 |  | product family METRAL 1000                                                                                                                       |  | code    | 213 |
| sheet index           |         | revision sheet |      |                                       |                  |            | size                                                                                  | dwg no                                                                                                                                           |  | sheet 6 |     |
|                       |         |                |      |                                       |                  |            | A                                                                                     | 63743                                                                                                                                            |  |         |     |

Pro/E

3

|           |       |
|-----------|-------|
| cage code | 22526 |
|-----------|-------|

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