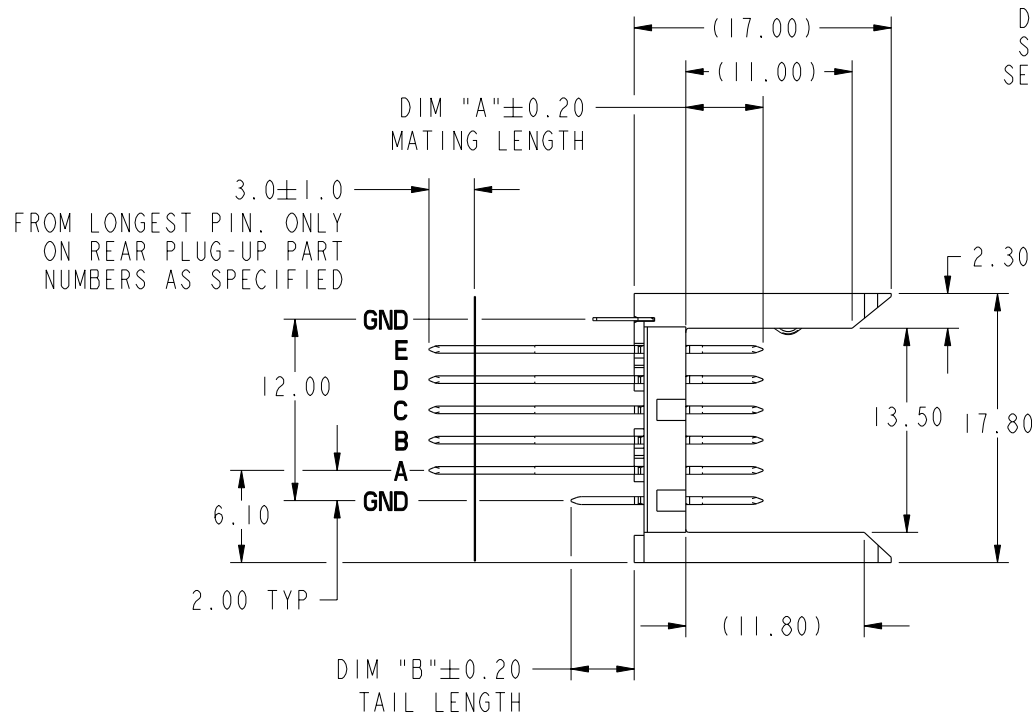
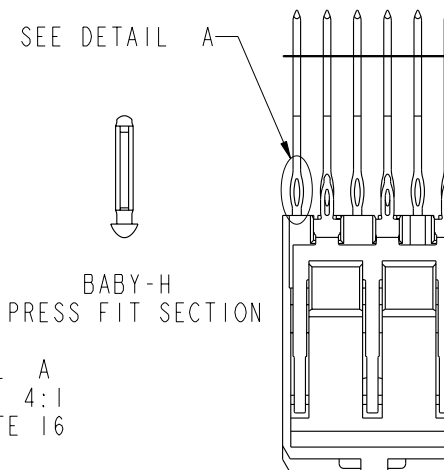




| PRODUCT NUMBER | PLATING PERFORMANCE LEVEL | APPLICATION | FOR REAR PLUG-UP APPLICATIONS USE SHROUD |
|----------------|---------------------------|-------------|------------------------------------------|
| 74817-1ZZZ     | TELCORDIA CO              | STANDARD    | 84818-104                                |
| 74817-1ZZZLF   |                           | LEAD FREE   | 84818-104LF                              |
| 74817-5ZZZ     | TELCORDIA UE              | STANDARD    | 84818-504                                |
| 74817-5ZZZLF   |                           | LEAD FREE   | 84818-504LF                              |
| 74817-9ZZZ     | TELCORDIA CO              | STANDARD    | 84818-104                                |
| 74817-9ZZZLF   |                           | LEAD FREE   | 84818-104LF                              |

EYE OF NEEDLE PRESS FIT SECTION  
BABY-H PRESS FIT SECTION



|                       |          |                |            |                                       |            |            |    |          |                                                                                              |    |    |                                                                                                          |                                                                  |    |        |    |       |  |
|-----------------------|----------|----------------|------------|---------------------------------------|------------|------------|----|----------|----------------------------------------------------------------------------------------------|----|----|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|--------|----|-------|--|
| mat'l code SEE NOTE 5 |          |                |            | tolerances unless otherwise specified |            |            |    | CUSTOMER |                                                                                              |    |    |  www.fciconnect.com |                                                                  |    |        |    |       |  |
| ltr                   | ecn no.  | dr             | date       | linear                                | 0.X ±0.3   |            |    |          | COPY                                                                                         |    |    |                                                                                                          | title VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |    |        |    |       |  |
| AW                    | V08-0141 | LP             | 2008-03-28 |                                       | 0.XX ±0.13 |            |    |          | projection                                                                                   |    |    |                                                                                                          |                                                                  |    |        |    |       |  |
| -                     | -        | -              | -          |                                       | .XXX ±.051 |            |    |          |         |    |    |                                                                                                          |                                                                  |    |        |    |       |  |
| AR                    | V07-0187 | DCH            | 2007-04-24 | angles                                | 0° ±2°     |            |    |          | scale                                                                                        |    |    |                                                                                                          | product family METRAL 1000                                       |    |        |    |       |  |
| AS                    | V07-0676 | HTB            | 2007-11-07 | dr                                    | K. BELL    | 2000-03-29 |    |          | <br>2:1 |    |    |                                                                                                          | size                                                             |    | dwg no |    | code  |  |
| AT                    | V07-0697 | LP             | 2007-11-29 | engr                                  | M. HAHN    | 2000-03-29 |    |          |                                                                                              |    |    |                                                                                                          | A                                                                |    | 74817  |    | 213   |  |
| AU                    | V08-0002 | HTB            | 2008-01-09 | chr                                   | M. HAHN    | 2000-03-29 |    |          |                                                                                              |    |    |                                                                                                          |                                                                  |    |        |    | sheet |  |
| AV                    | V08-0048 | LP             | 2008-2-1   | appd                                  | M. HAHN    | 2000-03-29 |    |          |                                                                                              |    |    |                                                                                                          |                                                                  |    | 1 of 9 |    |       |  |
| sheet index           |          | revision sheet |            | AW                                    | AW         | AW         | AW | AW       | AW                                                                                           | AW | AW | AW                                                                                                       | AW                                                               | AW | AW     | AW |       |  |
|                       |          |                |            | 1                                     | 2          | 3          | 4  | 5        | 6                                                                                            | 7  | 8  | 9                                                                                                        |                                                                  |    |        |    |       |  |

Pro/E

cage code 22526

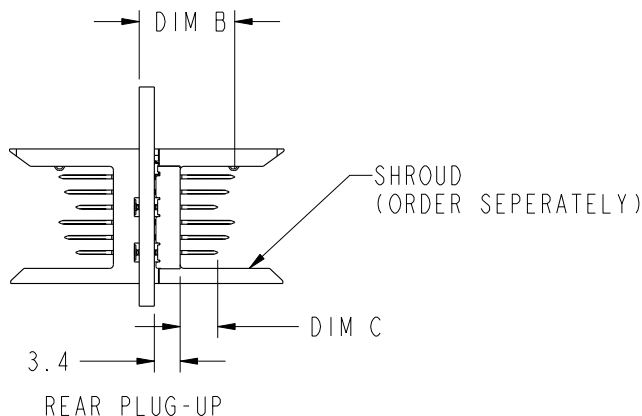
PDM: Rev:AW

STATUS: Released Printed: May 13, 2011

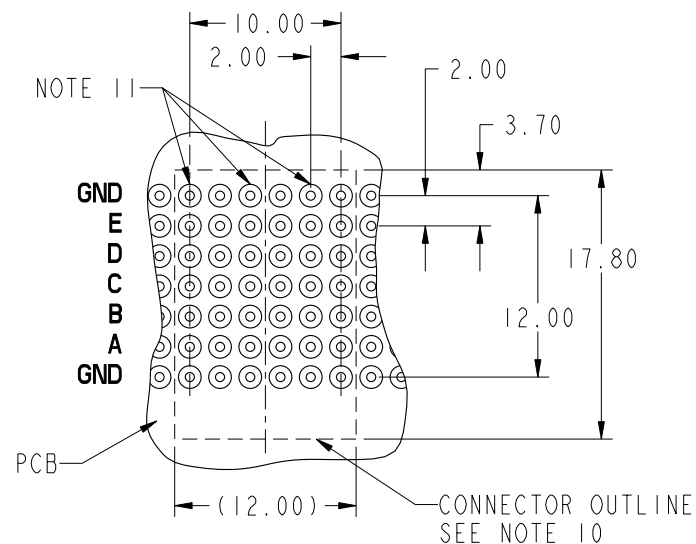


PRODUCT NUMBER  
SEE SHEET 1

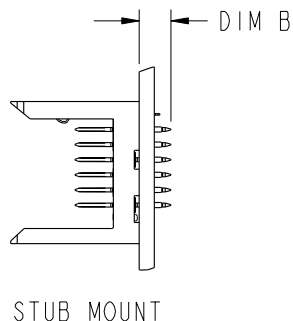
| PRESS-FIT HOLES                | OPTION 1                  |
|--------------------------------|---------------------------|
| HOLE DIAMETER<br>AFTER PLATING | 0.65-0.80                 |
| DRILLED HOLE                   | 0.81-0.86<br>(0.85 DRILL) |
| COPPER PLATING                 | 0.025 MIN    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



SEE PRINT 58351 FOR ADDITIONAL  
PCB INFORMATION



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                      | ecm no.           | dr | date | linear                                   | 0.X ±0.3           | projection | COPY  | title                     | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |
| AW                       |                   |    |      |                                          | 0.XX ±0.13         |            |       |                           |                                                            |
|                          |                   |    |      |                                          | .XXX ±.051         |            |       |                           |                                                            |
|                          |                   |    |      | angles                                   | 0° ±2°             | MM<br>2:1  | scale | product family            | METRAL 1000                                                |
|                          |                   |    |      | dr                                       | K. BELL 2000-03-29 |            |       |                           |                                                            |
|                          |                   |    |      | engr                                     | M. HAHN 2000-03-29 |            |       |                           |                                                            |
|                          |                   |    |      | chr                                      | M. HAHN 2000-03-29 | A          | size  | dwg no                    | code                                                       |
|                          |                   |    |      | appd                                     | M. HAHN 2000-03-29 |            |       |                           |                                                            |
| sheet<br>index           | revision<br>sheet |    |      |                                          |                    |            |       |                           |                                                            |
|                          |                   |    |      |                                          |                    |            |       |                           |                                                            |

cage code 22526

Pro/E

PDM: Rev:AW

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 84688<br>SERIES METRAL 1000 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<br>SEE NOTE 5 |         |                |      | tolerances unless<br>otherwise specified |                    | CUSTOMER            |  | <a href="http://www.fciconnect.com">www.fciconnect.com</a> |             |       |
| ltr                      | ecn no. | dr             | date | linear                                   | 0.X ±0.3           | projection          |  | title                                                      |             |       |
| AW                       |         |                |      |                                          | 0.XX ±0.13         |                     |  | VERTICAL SIGNAL HDR 5 ROW                                  |             |       |
|                          |         |                |      |                                          | .XXX ±.051         |                     |  | P.F. 30 POS. SELECT LOAD STD.                              |             |       |
|                          |         |                |      | angles                                   | 0° ±2°             |                     |  |                                                            |             |       |
|                          |         |                |      | dr                                       | K. BELL 2000-03-29 | <br>MM<br>scale 2:1 |  | product family                                             | METRAL 1000 |       |
|                          |         |                |      | engr                                     | M. HAHN 2000-03-29 |                     |  | size                                                       | dwg no      | code  |
|                          |         |                |      | chr                                      | M. HAHN 2000-03-29 |                     |  | A                                                          | 74817       | 213   |
|                          |         |                |      | appd                                     | M. HAHN 2000-03-29 |                     |  |                                                            |             | sheet |
| sheet index              |         | revision sheet |      |                                          |                    |                     |  |                                                            |             |       |



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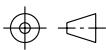
1 | 2

3 |

4

| 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   |                                                                                                     |  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. 30 POS. SELECT LOAD STD.                                      |  |
| AW                       |          |    |      |                                          | 0.XX ±0.13 |            |                                                                                                     |                                                                                                          |  |
|                          |          |    |      |                                          | .XXX ±.051 |            |                                                                                                     |                                                                                                          |  |
|                          |          |    |      | angles                                   | 0° ±2°     |            |                | product family METRAL 1000 code 213<br>size dwg no 74817 sheet 4                                         |  |
|                          |          |    |      | dr                                       | K. BELL    | 2000-03-29 |                                                                                                     |                                                                                                          |  |
|                          |          |    |      | enrg                                     | M. HAHN    | 2000-03-29 |                                                                                                     |                                                                                                          |  |
|                          |          |    |      | chr                                      | M. HAHN    | 2000-03-29 |                                                                                                     |                                                                                                          |  |
|                          |          |    |      | appd                                     | M. HAHN    | 2000-03-29 |                                                                                                     |                                                                                                          |  |
| sheet                    | revision |    |      |                                          |            |            | scale<br>1:1                                                                                        | cage code 22526                                                                                          |  |
| index                    | sheet    |    |      |                                          |            |            |                                                                                                     |                                                                                                          |  |

Pro/E

3 |

4



| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X001<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | D   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | C   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | B   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | A   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X002<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | D   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | C   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | B   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | A   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X003<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | D   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | C   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | B   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | A   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X004<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | D   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | C   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | B   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | A   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X005<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | D   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | C   | 30           | 06 | 06 | 06 | 06 | 06 |
|                                                          | B   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | A   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | GND | 30           | 30 | 30 | 30 | 30 | 30 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
3.25 - 4.55

- \* REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X006<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | D   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | C   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | B   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | A   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X007<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | D   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | C   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | B   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | A   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X008<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | D   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | C   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | B   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | A   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X009<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | D   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | C   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | B   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | A   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X010<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | D   | 02           | 03 | 03 | 03 | 03 | 03 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | A   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000 APPL.).  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000 REAR  
PLUG UP APPL.).  
CANNOT BE MATED  
TO A METRAL 4000.

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X011<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X012<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | D   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | C   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | B   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | A   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X013<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | D   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | C   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | B   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | A   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X014<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | D   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | C   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | B   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | A   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X015<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 04 | 04 | 04 | 04 | 04 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
5.70 - 8.70 FOR METAL  
1000 APPL. (NOT A  
STANDARD METRAL  
1000 APPL.) AND  
6.70 - 8.70 FOR A  
METRAL 4000  
APPLICATION.

|                       |         |                |      |                                       |            |            |  |            |                                                                  |                           |                                                                     |
|-----------------------|---------|----------------|------|---------------------------------------|------------|------------|--|------------|------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------|
| mat'l code SEE NOTE 5 |         |                |      | tolerances unless otherwise specified |            |            |  | CUSTOMER   |                                                                  | FCi<br>www.fciconnect.com |                                                                     |
| ltr                   | ecr no. | dr             | date | linear                                | 0.X ±0.3   |            |  | projection |                                                                  |                           | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |
| AW                    |         |                |      |                                       | 0.XX ±0.13 |            |  |            |                                                                  |                           |                                                                     |
|                       |         |                |      |                                       | .XXX ±.051 |            |  |            |                                                                  |                           |                                                                     |
|                       |         |                |      | angles                                | 0° ±2°     |            |  |            | product family METRAL 1000 code 213<br>size dwg no 74817 sheet 5 |                           |                                                                     |
|                       |         |                |      | dr                                    | K. BELL    | 2000-03-29 |  |            |                                                                  |                           |                                                                     |
|                       |         |                |      | enrg                                  | M. HAHN    | 2000-03-29 |  |            |                                                                  |                           |                                                                     |
|                       |         |                |      | chr                                   | M. HAHN    | 2000-03-29 |  |            |                                                                  |                           |                                                                     |
|                       |         |                |      | appd                                  | M. HAHN    | 2000-03-29 |  |            |                                                                  |                           |                                                                     |
| sheet index           |         | revision sheet |      |                                       |            |            |  |            |                                                                  |                           |                                                                     |



| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X016<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 04 | 04 | 04 | 04 | 04 |
|                                                  | B   | 01           | 02 | 02 | 02 | 02 | 01 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X017<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | D   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X018<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | D   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | C   | 03           | 02 | 02 | 03 | 03 | 03 |
|                                                  | B   | 03           | 02 | 01 | 01 | 01 | 01 |
|                                                  | A   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X019<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | D   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | C   | 03           | 03 | 03 | 02 | 02 | 03 |
|                                                  | B   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | A   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X023<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 03 | 03 | 03 | 01 | 01 |
|                                                        | D   | 01           | 03 | 03 | 03 | 01 | 19 |
|                                                        | C   | 01           | 01 | 01 | 01 | 01 | 19 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 19 |
|                                                        | A   | 01           | 01 | 01 | 19 | 19 | 19 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X024<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X025<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | C   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | B   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X026<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | D   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | C   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | B   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | A   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X027<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | D   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | C   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | B   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | A   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X028<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | D   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | C   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | B   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | A   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30 FOR  
METRAL 1000 APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (3.30) -  
5.30 FOR METRAL  
4000 RECEPTACLE  
APPLICATION

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
RECEPTACLE APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (4.80) -  
6.80 FOR METRAL  
4000 APPLICATIONS

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
RECEPTACLE APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (4.80) -  
6.80 FOR METRAL  
4000 APPLICATIONS

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
APPLICATIONS,  
AND 4.80 - 6.80  
FOR METRAL 4000  
APPLICATIONS

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X029<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | D   | 01           | 01 | 01 | 01 | 01 | 02 |
|                                                  | C   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 01           | 01 | 03 | 01 | 01 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X030<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 03           | 02 | 03 | 02 | 02 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X031<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 03 | 02 | 03 | 02 | 02 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X032<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X033<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 02 | 02 | 02 | 02 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

- \* REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000 RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

|                          |                   |    |      |                                          |            |            |              |            |                                                                               |                           |  |
|--------------------------|-------------------|----|------|------------------------------------------|------------|------------|--------------|------------|-------------------------------------------------------------------------------|---------------------------|--|
| 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 |                                                                               |                           |  |
| AW                       |                   |    |      |                                          | 0.XX ±0.13 |            |              |            |                                                                               |                           |  |
|                          |                   |    |      |                                          | .XXX ±.051 |            |              |            |                                                                               |                           |  |
|                          |                   |    |      | angles                                   | 0° ±2°     |            |              |            | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD.           |                           |  |
|                          |                   |    |      | dr                                       | K. BELL    | 2000-03-29 |              |            |                                                                               |                           |  |
|                          |                   |    |      | enrg                                     | M. HAHN    | 2000-03-29 |              |            |                                                                               |                           |  |
|                          |                   |    |      | chr                                      | M. HAHN    | 2000-03-29 |              |            |                                                                               |                           |  |
|                          |                   |    |      | appd                                     | M. HAHN    | 2000-03-29 | scale<br>2:1 |            | product family METRAL 1000<br>size<br>A<br>74817<br>code<br>213<br>sheet<br>6 |                           |  |
| sheet<br>index           | revision<br>sheet |    |      |                                          |            |            |              |            |                                                                               |                           |  |



A

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X034<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | D   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | C   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | B   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | A   | 05           | 20 | 05 | 05 | 05 | 05 |
| GND                                                            | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000  
APPLICATION).  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X035<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 01           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X036<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 01           | 01 | 01 | 01 | 03 | 02 |
|                                                  | B   | 01           | 01 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X037<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 01           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X038<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 03 | 02 | 02 |
| GND                                              | -   | -            | -  | -  | -  | -  | -  |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X039<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | C   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 04 | 01 | 01 | 01 | 01 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X040<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | D   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | C   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                                | B   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | A   | 08           | 06 | 06 | 06 | 06 | 06 |
| GND                                                            | 06  | 06           | 06 | 06 | 06 | 06 | 06 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
4.00 - 5.30.  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X041<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 04 | 02 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 02           | 02 | 02 | 02 | 02 | 04 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X042<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | D   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | C   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | B   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | A   | 08           | 06 | 06 | 06 | 06 | 06 |
| GND                                                            | 30  | 30           | 30 | 30 | 30 | 30 | 30 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
3.25 - 4.95 FOR  
METRAL 1000  
APPLICATIONS.  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X043<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | D   | 03           | 03 | 03 | 03 | 01 | 03 |
|                                                        | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | B   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | A   | 19           | 19 | 19 | 19 | 19 | 19 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X044<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | D   | 45           | 45 | 45 | 45 | 22 | 45 |
|                                                                | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | B   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | A   | 47           | 47 | 47 | 47 | 47 | 47 |
| GND                                                            | 22  | 22           | 22 | 22 | 22 | 22 | 22 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.95 - 3.80 FOR  
MATING TO  
METRAL 1000  
RECEPTACLE.  
CANNOT BE MATED  
TO METRAL 4000  
RECEPTABLES.

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X045<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 2  |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 01 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X046<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | D   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                          | B   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | A   | 22           | 22 | 22 | 22 | 22 | 22 |
| GND                                                      | 01  | 22           | 22 | 22 | 22 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.95 - 3.80 FOR  
BOTH METRAL  
1000 AND 4000  
RECEPTACLE  
MATING (NOT A  
STANDARD METRAL  
1000 APPLICATION)

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X047<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 01 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X048<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 02  | 02           | 02 | 02 | 02 | 02 | 02 |

A

- \* REAR PLUG-UP PART NUMBER WITH  
PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT  
PIN ALIGNER

|                       |         |                |      |                                          |            |            |        |                 |                                                            |                           |  |
|-----------------------|---------|----------------|------|------------------------------------------|------------|------------|--------|-----------------|------------------------------------------------------------|---------------------------|--|
| mat'l code SEE NOTE 5 |         |                |      | tolerances unless<br>otherwise specified |            |            |        | CUSTOMER        |                                                            | FCJ<br>www.fciconnect.com |  |
| ltr                   | ecr no. | dr             | date | linear                                   | 0.X ±0.3   |            |        | projection      | COPY                                                       |                           |  |
| AW                    |         |                |      |                                          | 0.XX ±0.13 |            |        |                 | title                                                      |                           |  |
|                       |         |                |      |                                          | .XXX ±.051 |            |        |                 | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |  |
|                       |         |                |      | angles                                   | 0° ±2°     |            |        | MM<br>scale 2:1 | product family METRAL 1000                                 |                           |  |
|                       |         |                |      | dr                                       | K. BELL    | 2000-03-29 | code   |                 |                                                            |                           |  |
|                       |         |                |      | enrg                                     | M. HAHN    | 2000-03-29 | 213    |                 |                                                            |                           |  |
|                       |         |                |      | chr                                      | M. HAHN    | 2000-03-29 | size   |                 |                                                            | sheet                     |  |
|                       |         |                |      | appd                                     | M. HAHN    | 2000-03-29 | dwg no |                 |                                                            | 7                         |  |
| sheet index           |         | revision sheet |      |                                          |            |            |        |                 |                                                            |                           |  |

B



| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X049<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X050<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | A   | 02           | 01 | 02 | 02 | 02 | 04 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X051<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 04           | 01 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X052<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X053<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | D   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | C   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | B   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | A   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | GND | 01           | 01 | 01 | 01 | 01 | 01 |

- \* REAR PLUG-UP PART NUMBER WITH  
PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT  
PIN ALIGNER

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X054<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | D   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                            | B   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | A   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | GND | 01           | 22 | 22 | 22 | 22 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X055<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | -            | 02 | 02 | 02 | 02 | -  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X056<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | -            | 02 | 02 | 02 | 02 | -  |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X057<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | D   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | C   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | B   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | A   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | GND | 22           | 22 | 22 | 22 | 22 | 22 |

|                       |                |    |      |                                          |                        |            |  |                                                                     |  |
|-----------------------|----------------|----|------|------------------------------------------|------------------------|------------|--|---------------------------------------------------------------------|--|
| 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       |  |                                                                     |  |
| AW                    |                |    |      |                                          | 0.XX ± 0.13            | projection |  |                                                                     |  |
|                       |                |    |      |                                          | .XXX ± .051            |            |  |                                                                     |  |
|                       |                |    |      | angles                                   | 0° ± 2°                |            |  | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |  |
|                       |                |    |      | dr                                       | K. BELL 2000-03-29     | MM         |  | product family METRAL 1000                                          |  |
|                       |                |    |      | engr                                     | J. VOLSTORF 2001-05-23 | scale 2:1  |  | code 213                                                            |  |
|                       |                |    |      | chr                                      | M. HAHN 2000-03-29     |            |  | sheet 8                                                             |  |
|                       |                |    |      | appd                                     | M. HAHN 2000-03-29     |            |  |                                                                     |  |
| sheet index           | revision sheet |    |      |                                          |                        |            |  |                                                                     |  |

PRODUCT NUMBER

SEE SHEET 1

## NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
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 ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING OF "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS 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 COMPLAINT 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 74817-XZZZLF



14. THE PRODUCTS WHERE THE PART NUMBERS ENDS IN LF MEET 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.
15. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX.  
EXAMPLE: 74817-XXXXLF
16. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

|                          |                   |    |      |                                          |             |            |            |                           |                                                                     |  |             |      |
|--------------------------|-------------------|----|------|------------------------------------------|-------------|------------|------------|---------------------------|---------------------------------------------------------------------|--|-------------|------|
| 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   |            | COPY       |                           | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |  |             |      |
| AW                       |                   |    |      |                                          | 0. XX ±0.13 |            | projection |                           |                                                                     |  |             |      |
|                          |                   |    |      | angles                                   | . XXX ±.051 |            |            |                           |                                                                     |  |             |      |
|                          |                   |    |      |                                          | 0° ±2°      |            |            |                           |                                                                     |  |             |      |
|                          |                   |    |      | dr                                       | K. BELL     | 2000-03-29 |            |                           | product family                                                      |  | METRAL 1000 | code |
|                          |                   |    |      | enrg                                     | M. HAHN     | 2000-03-29 |            |                           | size                                                                |  | dwg no      |      |
|                          |                   |    |      | chr                                      | M. HAHN     | 2000-03-29 | scale      |                           | A                                                                   |  | 74817       |      |
|                          |                   |    |      | appd                                     | M. HAHN     | 2000-03-29 |            |                           |                                                                     |  |             |      |
| sheet<br>index           | revision<br>sheet |    |      |                                          |             |            |            |                           |                                                                     |  |             |      |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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