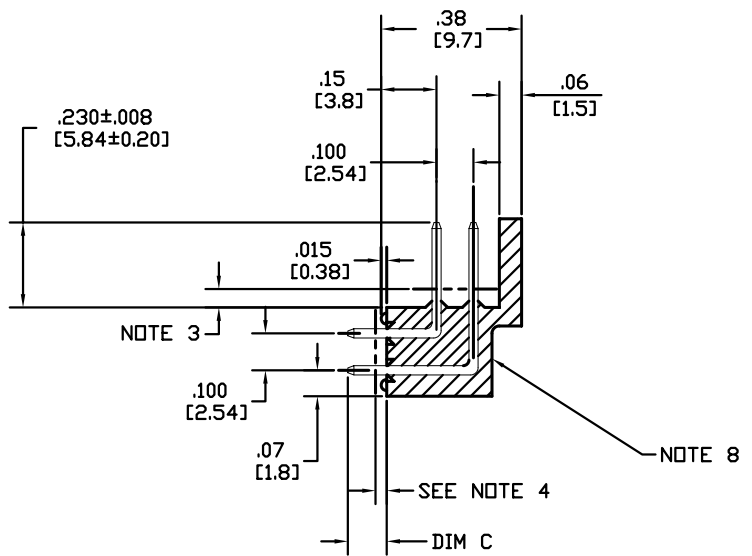
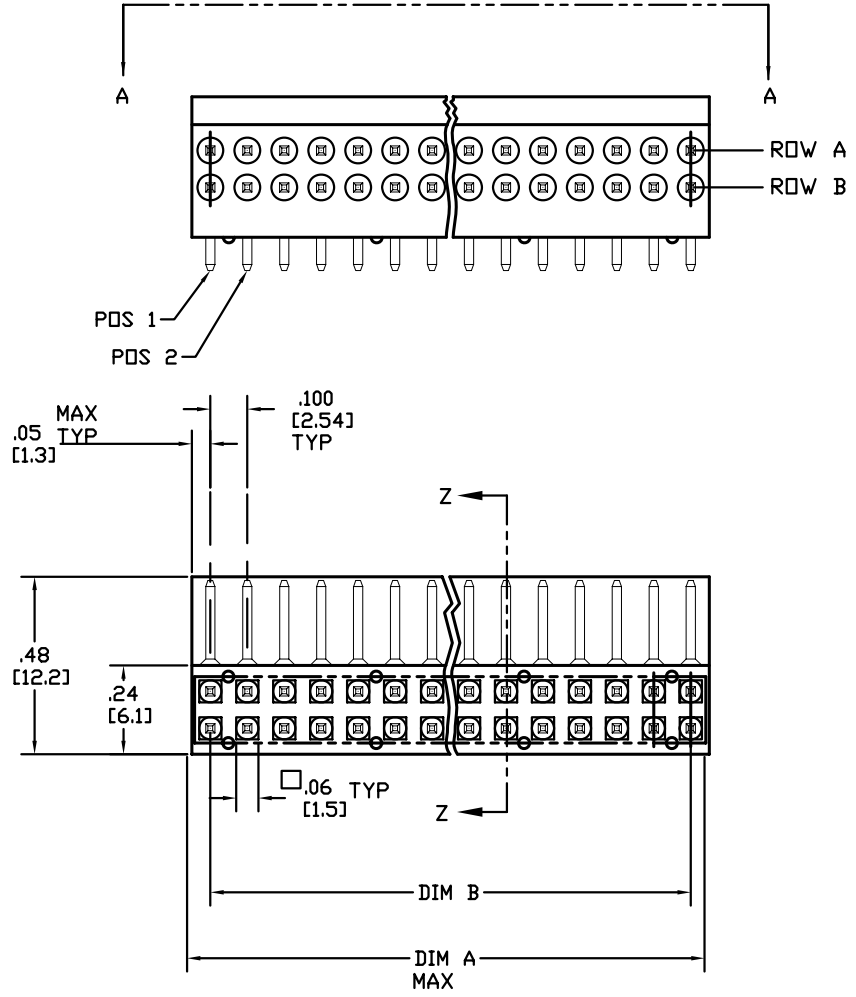


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PRODUCT NO.  
SEE TABLE

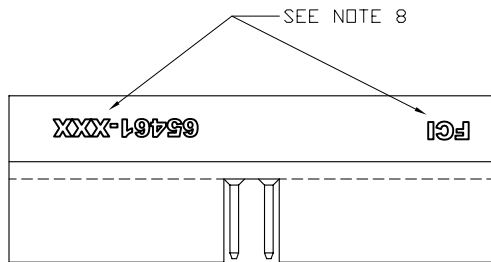
STYLE P  
SHOWN THIS SHEET



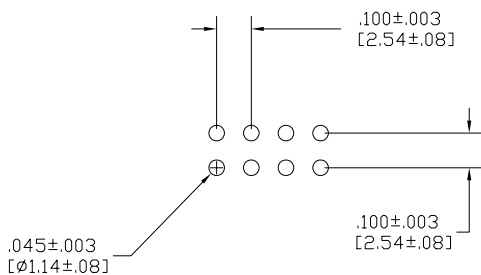
SECTION Z-Z

|             |                |      |          |                                       |                      |          |         |               |             |                                 |  |
|-------------|----------------|------|----------|---------------------------------------|----------------------|----------|---------|---------------|-------------|---------------------------------|--|
| mat'l. code |                |      |          | tolerances unless otherwise specified |                      |          |         | CUSTOMER COPY |             | <br>www.fciconnect.com          |  |
| NOTE 1      |                |      |          |                                       |                      |          |         |               |             | title                           |  |
| ltr         | ecn no         | dr   | date     | linear                                | .XX±.01/.X±.3        |          |         |               | <br>INCH/MM | TOP SHIELDED RIGHT ANGLE HEADER |  |
| AJ          | ?????          | RLS  | 3-29-90  |                                       | .XXX±.005/.XX±.13    |          |         |               |             | product family HEADERS          |  |
| AK          | V03-0413       | GJP  | 4-14-03  |                                       | .XXX±.0020/.XXX±.051 |          |         |               |             | code 213                        |  |
| AL          | V05-0891       | DAI  | 10/10/05 |                                       | 0° ±2'               |          |         |               |             | size dwg no                     |  |
|             |                |      |          | angles                                | dr                   | R SEIPLE | 3-30-90 | scale         |             | A 65461                         |  |
|             |                |      |          |                                       | enr                  | H SUNDY  | 3-30-90 |               |             | sheet 1 of 4                    |  |
|             |                |      |          |                                       | chr                  | H SUNDY  | 3-30-90 |               |             |                                 |  |
|             |                |      |          |                                       | appd                 | H SUNDY  | 3-30-90 |               |             |                                 |  |
| sheet index | revision sheet | AL 1 | AL 2     | AL 3                                  | AL 4                 |          |         |               |             |                                 |  |

PRODUCT NO.  
SEE TABLE






VIEW A-A  
STYLE M  
SCALE 5:1



RECOMMENDED HOLE  
PATTERN

NOTES:

- ①. MOLDING MATERIAL; GLASS FILLED 30 % MIN POLYESTER. FLAME RETARDANT UL 94-0 COLOR - BLACK.  
THIS PRODUCT WILL WITHSTAND EXPOSURE TO 260°C TEMPERATURE FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A .06 [1.5mm] THICK PCB.
- ②. TERMINAL MATERIAL, .0250±.0015/.635±.038 SQUARE 3/4 HARD PHOSPHOR BRONZE ALLOY UNS C510000. PLATING SEE TABULATION
- ③. .05/1.3 MAX HIGH FLASH
- ④. .03/.8 MAX FLASH.
- ⑤. TWO SIDES OF LEAD-IN ON PINS NOT PLATED. TYPICAL BOTH ENDS.
- ⑥. UL RECOGNIZED PRODUCT.
- ⑦. GXT Pd/Ni PLATED PRODUCT HAS GOLD FLASH.
- ⑧. FCI LOGO AND PART NUMBER ON THIS SURFACE WHEN POSSIBLE.
- ⑨. ADD SUFFIX LF AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- ⑩. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- ⑪. THIS PRODUCT MAY HAVE 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN INTERCONNECT ENVIRONMENTS.

|                       |        |  |      |                  |   |   |   |
|-----------------------|--------|--|------|------------------|---|---|---|
| mat'l. code<br>NOTE 1 |        | tolerances unless<br>otherwise specified |      | CUSTOMER<br>COPY | <br>www.fciconnect.com |   |   |
| ltr                   | ecn no | dr                                       | date | linear           | .XX±.01/.X±.3   | projection<br> | title<br>TOP SHIELDED<br>RIGHT ANGLE HEADER |
| AL                    |        |  |      |                  | .XXX±.005/.XX±.13   |   |   |
|                       |        |  |      | angles           | 0° ±2°  |                | size<br>dwg no 65461<br>sheet 2 of          |
|                       |        |  |      | dr               | R SEIPLE 3-30-90  |   |   |
|                       |        |  |      | enrg             | H SUNDY 3-30-90   | cage code<br>22526  | 4   |
|                       |        |  |      | chr              | H SUNDY 3-30-90   |   |   |
|                       |        |  |      | appd             | H SUNDY 3-30-90   |   |   |

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A

A


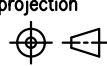
B

B

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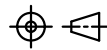
| PRODUCT NO | NO OF POS | DIM A       | DIM B       | DIM C    | OVERPLATING     | UNDERPLATING      | STYLE | POSITIONS POLARIZED | LF OPTION |
|------------|-----------|-------------|-------------|----------|-----------------|-------------------|-------|---------------------|-----------|
| 65461-001  | 2x8       | .800/20.32  | .700/17.78  | .09/2.3  | 30u"/.76u GOLD  | 50u"/1.27u NICKEL | P     | NONE                | ↑         |
| ↑ -002     | 2x9       | .900/22.86  | .800/20.32  | ↑        | ↑               | ↑                 | P     | ↑                   | ↑         |
| -003       | 2x10      | 1.000/25.40 | .900/22.86  |          |                 |                   | M     |                     |           |
| -004       | 2x12      | 1.200/30.48 | 1.100/27.94 |          |                 |                   | P     |                     |           |
| -005       | 2x13      | 1.300/33.02 | 1.200/30.48 |          |                 |                   | M     |                     |           |
| -006       | 2x17      | 1.700/43.18 | 1.600/40.64 |          |                 |                   | ↑     |                     |           |
| -007       | 2x20      | 2.000/50.80 | 1.900/48.26 |          |                 |                   | ↓     |                     |           |
| -008       | 2x25      | 2.500/63.50 | 2.400/60.96 |          | 30u"/.76u GOLD  |                   | M     |                     |           |
| -009       | 2x8       | .800/20.32  | .700/17.78  |          | 150u"/3.81u TIN |                   | P     |                     |           |
| -010       | 2x9       | .900/22.86  | .800/20.32  |          |                 |                   | ↑     |                     |           |
| -011       | 2x10      | 1.000/25.40 | .900/22.86  |          |                 |                   |       |                     |           |
| -012       | 2x12      | 1.200/30.48 | 1.100/27.94 |          |                 |                   |       |                     |           |
| -013       | 2x13      | 1.300/33.02 | 1.200/30.48 |          |                 |                   |       |                     |           |
| -014       | 2x17      | 1.700/43.18 | 1.600/40.64 |          |                 |                   |       |                     |           |
| -015       | 2x20      | 2.000/50.80 | 1.900/48.26 |          |                 |                   |       |                     |           |
| -016       | 2x25      | 2.500/63.50 | 2.400/60.96 |          | 150u"/3.81u TIN |                   |       |                     |           |
| -017       | 2x14      | 1.400/35.56 | 1.300/33.02 |          | 30u"/.76u GOLD  |                   |       |                     |           |
| -018       | 2x14      | 1.400/35.56 | 1.300/33.02 |          | 150u"/3.81u TIN |                   |       |                     |           |
| -019       | 2x5       | .500/12.70  | .400/10.16  | ↓        | 30u"/.76u GOLD  |                   |       |                     |           |
| -020       | 2x5       | .500/12.70  | .400/10.16  | .09/2.3  | 150u"/3.81u TIN |                   |       |                     | NOTE 9    |
| -021       | 2x8       | .800/20.32  | .700/17.78  | .49/12.4 | 30u"/.76u GOLD  |                   |       | NONE                |           |
| -022       | 2x5       | .500/12.70  | .400/10.16  | .15/3.8  | 50u"/1.27u GOLD |                   |       | A-3                 |           |
| -023       | 2x5       | .500/12.70  | .400/10.16  | .15/3.8  | 50u"/1.27u GOLD |                   |       | A-4                 |           |
| -024       | 2x8       | .800/20.32  | .700/17.78  | .15/3.8  | 50u"/1.27u GOLD |                   |       | A-3                 |           |
| -025       | 2x7       | .700/17.78  | .600/15.24  | .09/2.3  | 30u"/.76u GOLD  |                   |       | NONE                |           |
| -026       | 2x7       | .700/17.78  | .600/15.24  | .09/2.3  | 150u"/3.81u TIN |                   |       | NONE                |           |
| -027       | 2x10      | 1.000/25.40 | .900/22.86  | .15/3.8  | 50u"/1.27u GOLD |                   |       | A-3                 |           |
| -028       | 2x8       | .800/20.32  | .700/17.78  | .15/3.8  | 50u"/1.27u GOLD |                   | P     | A-4,6               |           |
| -029       | 2x10      | 1.000/25.40 | .900/22.86  | .09/2.3  | 30u"/.76u GOLD  |                   | M     | RDW B               |           |
| -030       | 2x14      | 1.400/35.56 | 1.300/33.02 | .09/2.3  | 30u"/.76u GOLD  |                   | M     | RDW B               |           |
| -031       | 2x20      | 2.000/50.80 | 1.900/48.26 | .09/2.3  | 50u"/1.27u GOLD |                   | M     | NONE                |           |
| -032       | 2x8       | .800/20.32  | .700/17.78  | .15/3.8  | 50u"/1.27u GOLD |                   | P     | A-2,3,5,&B-2,3      |           |
| -033       | 2x17      | 1.700/43.18 | 1.600/40.64 | .15/3.8  | 30u"/.76u GOLD  |                   | M     | NONE                |           |
| -034       | 2x3       | .300/7.62   | .200/5.08   | .09/2.3  |                 |                   | P     | ↑                   |           |
| -035       | 2x6       | .600/15.24  | .500/12.70  | .09/2.3  |                 |                   | ↑     |                     |           |
| -036       | 2x24      | 2.400/60.96 | 2.300/58.42 | .09/2.3  |                 |                   | ↓     |                     |           |
| -037       | 2x20      | 2.000/50.80 | 1.900/48.26 | .49/12.4 |                 |                   | P     |                     |           |
| -038       | 2x5       | .500/12.70  | .400/10.16  | .09/2.3  |                 |                   | M     |                     |           |
| -039       | 2x8       | .800/20.32  | .700/17.78  | .15/3.8  |                 |                   | ↑     |                     |           |
| -040       | 2x13      | 1.300/33.02 | 1.200/30.48 |          |                 |                   |       |                     |           |
| -041       | 2x10      | 1.000/25.40 | .900/22.86  |          |                 |                   |       |                     |           |
| ↓ -042     | 2x5       | .500/12.70  | .400/10.16  |          |                 |                   | ↓     |                     |           |
| 65461-001  | 2x20      | 2.000/50.80 | 1.900/48.26 | .15/3.8  | 30u"/.76u GOLD  | 50u"/1.27u NICKEL | M     | NONE                | ↓         |

|             |                |    |      |                                       |                      |        |  |  |                                 |   |     |      |
|-------------|----------------|----|------|---------------------------------------|----------------------|--------|--|--|---------------------------------|---|-----|------|
| mat'l. code |                |    |      | tolerances unless otherwise specified |                      |        |  | CUSTOMER COPY  |                                 | <br>www.fciconnect.com |     |      |
| ltr         | ecn no         | dr | date | linear                                | .XX±.01/.X±.3        |        |  | projection   | title                           |   |     |      |
| AL          |                |    |      |                                       | .XXX±.005/.XX±.13    |        |  |  | TOP SHIELDED RIGHT ANGLE HEADER |   |     |      |
|             |                |    |      |                                       | .XXX±.0020/.XXX±.051 |        |  |  | product family HEADERS code     |   |     |      |
|             |                |    |      | angles                                | 0° ±2°               |        |  | <br>INCH/MM | size  dwg no                    |   | 213 |      |
|             |                |    |      | dr                                    | R SEIPLE             | 4-2-90 |  |  | scale                           | A   |     | 3 of |
|             |                |    |      | engr                                  | H SUNDY              | 4-2-90 |  | 1:1  |                                 | 65461   |     |      |
|             |                |    |      | chr                                   | H SUNDY              | 4-2-90 |  |  |                                 |   |     |      |
|             |                |    |      | appd                                  | H SUNDY              | 4-2-90 |  |  |                                 |   |     |      |
| sheet index | revision sheet |    |      |                                       |                      |        |  |  |                                 |   |     |      |

| PRODUCT NO | NO OF POS | DIM A        | DIM B       | DIM C   | OVERPLATING     | UNDERPLATING      | STYLE | POSITIONS POLARIZED | LF OPTION |
|------------|-----------|--------------|-------------|---------|-----------------|-------------------|-------|---------------------|-----------|
| 65461-044  | 2x12      | 1,200/30.48  | 1,100/27.94 | .26/6.6 | 30u"/.76u GOLD  | 50u"/1.27u NICKEL | M     | NONE                | ↑         |
| ↑ -045     | 2x36      | 3,600/91.44  | 3,500/88.90 | .09/2.3 | ↕               | ↑                 | M     | NONE                | ↑         |
| -046       | 2x10      | 1,000/25.40  | .900/22.86  | .15/3.8 |                 |                   | P     | A-3                 |           |
| -047       | 2x8       | .800/20.32   | .700/17.78  | .15/3.8 | 30u"/.76u GOLD  |                   | P     | A-2,3,5 & B-2,3     |           |
| -048       | 2x10      | 1,000/25.40  | .900/22.86  | .09/2.3 | 150u"/3.81u TIN |                   | M     | NONE                |           |
| -049       | 2x10      | 1,000/25.40  | .900/22.86  | .09/2.3 | 150u"/.38u GOLD |                   | M     | NONE                |           |
| -050       | 2x14      | 1,400/35.56  | 1,300/33.02 | .18/4.6 | 30u"/.76u GOLD  |                   | P     | A-2                 |           |
| -051       | 2x17      | 1,700/43.18  | 1,600/40.64 | .09/2.3 | 15u"/.38u GOLD  |                   | M     | NONE                |           |
| -052       | 2x3       | .300/7.62    | .200/5.08   | .09/2.3 | 30u"/.76u GOLD  |                   | M     | NONE                |           |
| -053       | 2x5       | .500/12.70   | .400/10.16  | .09/2.3 | 50u"/1.27u GOLD |                   | P     | B-4                 |           |
| -054       | 2x13      | 1,300/33.02  | 1,200/30.48 | .09/2.3 | 30u"/.76u GXT   |                   | M     | NONE                |           |
| -055       | 2x12      | 1,200/30.48  | 1,100/27.94 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -056       | 2x17      | 1,700/43.18  | 1,600/40.64 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -057       | 2x25      | 2,500/63.50  | 2,400/60.96 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -058       | 2x13      | 1,300/33.02  | 1,200/30.48 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -059       | 2x10      | 1,000/25.40  | .900/22.86  | .15/3.8 | ↓               |                   | M     | ROW B               |           |
| -060       | 2x14      | 1,400/35.56  | 1,300/33.02 | .15/3.8 | ↓               |                   | M     | ROW B               |           |
| -061       | 2x20      | 2,000/50.80  | 1,900/48.26 | .11/2.8 | 30u"/.76u GXT   |                   | M     | NONE                |           |
| -062       | 2x12      | 1,200/30.48  | 1,100/27.94 | .11/2.8 | 150u"/3.81u TIN |                   | M     | NONE                |           |
| -063       | 2x17      | 1,700/43.18  | 1,600/40.64 | .11/2.8 | ↑               |                   | M     | NONE                | NOTE 9    |
| -064       | 2x25      | 2,500/63.50  | 2,400/60.96 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -065       | 2x13      | 1,300/33.02  | 1,200/30.48 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -066       | 2x10      | 1,000/25.40  | .900/22.86  | .15/3.8 | ↓               |                   | M     | ROW-B               |           |
| -067       | 2x14      | 1,400/35.56  | 1,300/33.02 | .15/3.8 | ↓               |                   | M     | ROW-B               |           |
| -068       | 2x20      | 2,000/50.80  | 1,900/48.26 | .11/2.8 | 150u"/3.81u TIN |                   | M     | NONE                |           |
| -069       | 2x8       | .800/20.32   | .700/17.78  | .09/2.3 | 30u"/.76u GOLD  |                   | M     | NONE                |           |
| -070       | 2x13      | 1,300/33.02  | 1,200/30.48 | .09/2.3 | ↑               |                   | P     | NONE                |           |
| -071       | 2x14      | 1,400/35.56  | 1,300/33.02 | .11/2.8 | ↑               |                   | M     | NONE                |           |
| -072       | 2x32      | 3,200/81.28  | 3,100/78.74 | .11/2.8 | ↓               |                   | P     | NONE                |           |
| -073       | 2x15      | 1,500/38.106 | 1,400/35.56 | .11/2.8 | ↓               |                   | M     | NONE                |           |
| ↓ -074     | 2x30      | 3,000/76.20  | 2,900/73.66 | .11/2.8 | 30u"/.76u GOLD  | ↓                 | M     | NONE                | ↓         |
| 65461-075  | 2x17      | 1,700/43.18  | 1,600/40.64 | .11/2.8 | 30u"/.76u GXT   | 50u"/1.27u NICKEL | P     | NONE                | ↓         |

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|-------------|----------------|---------------------------------------|------|----------------|---|
| mat'l. code |                | tolerances unless otherwise specified |      | CUSTOMER COPY  | <br>www.fciconnect.com |
| ltr         | ecn no         | dr                                    | date |                |   |
| AL          |                |                                       |      | linear         | projection  |
|             |                |                                       |      | angles         | <br>INCH/MM            |
|             |                |                                       |      | dr             | R SEIPLE 4-2-90   |
|             |                |                                       |      | engr           | H SUNDY 4-2-90  |
|             |                |                                       |      | chr            | H SUNDY 4-2-90  |
|             |                |                                       |      | appd           | H SUNDY 4-2-90  |
| sheet index | revision sheet |                                       |      | scale          | 1:1   |
|             |                |                                       |      | product family | HEADERS   |
|             |                |                                       |      | size           | dwg no  |
|             |                |                                       |      | A              | 65461   |
|             |                |                                       |      | code           | 213   |
|             |                |                                       |      | sheet          | 4 of  |