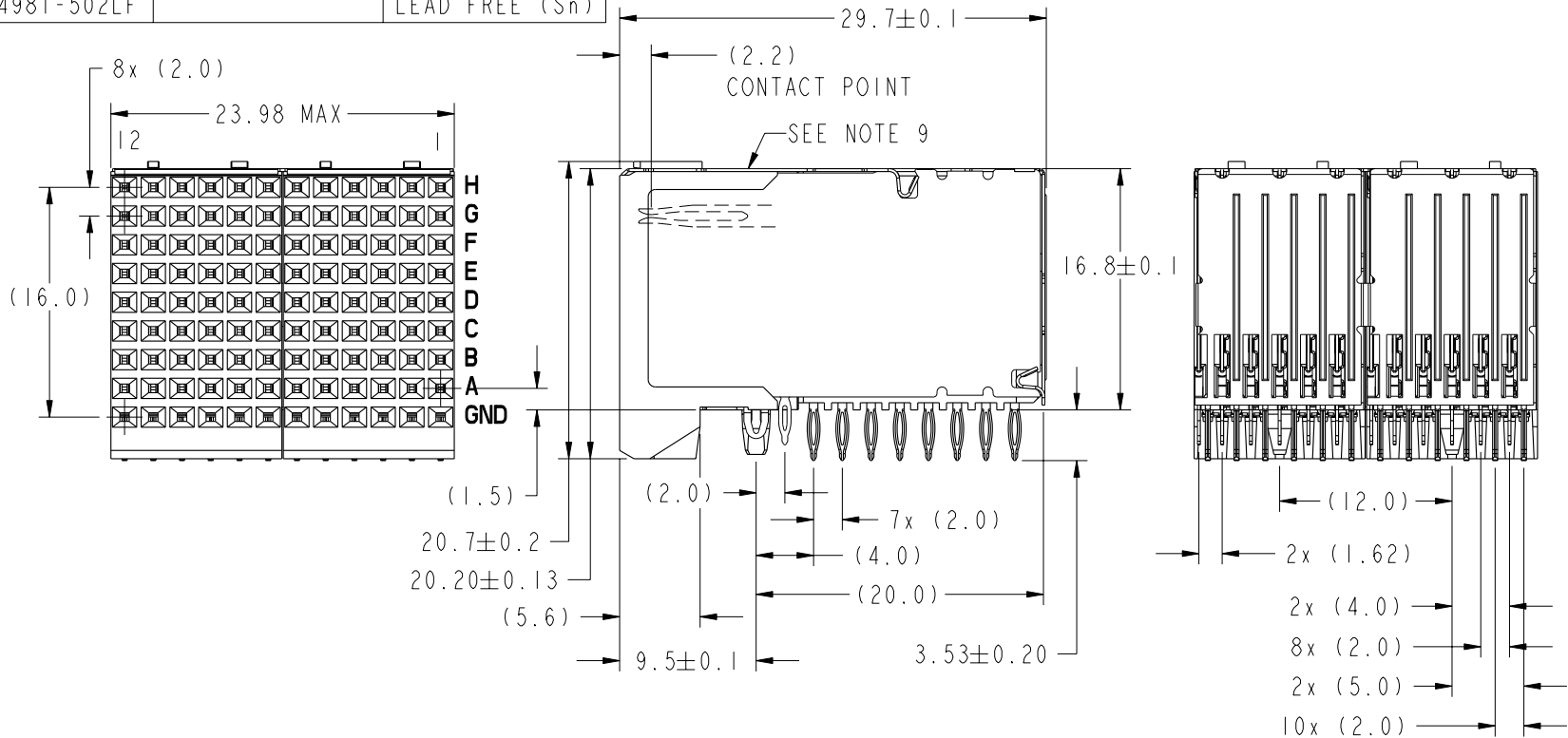




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| PRODUCT NO. | CONTACT PLATING PERFORMANCE LEVEL | PRESS-FIT TAIL PLATING |
|-------------|-----------------------------------|------------------------|
| 74981-102 | TELCORDIA CO | STANDARD (SnPb) |
| 74981-102LF | | LEAD FREE (Sn) |
| 74981-302 | CUSTOMER SPECIAL | STANDARD (SnPb) |
| 74981-302LF | | LEAD FREE (Sn) |
| 74981-502 | TELCORDIA UE | STANDARD (SnPb) |
| 74981-502LF | | LEAD FREE (Sn) |



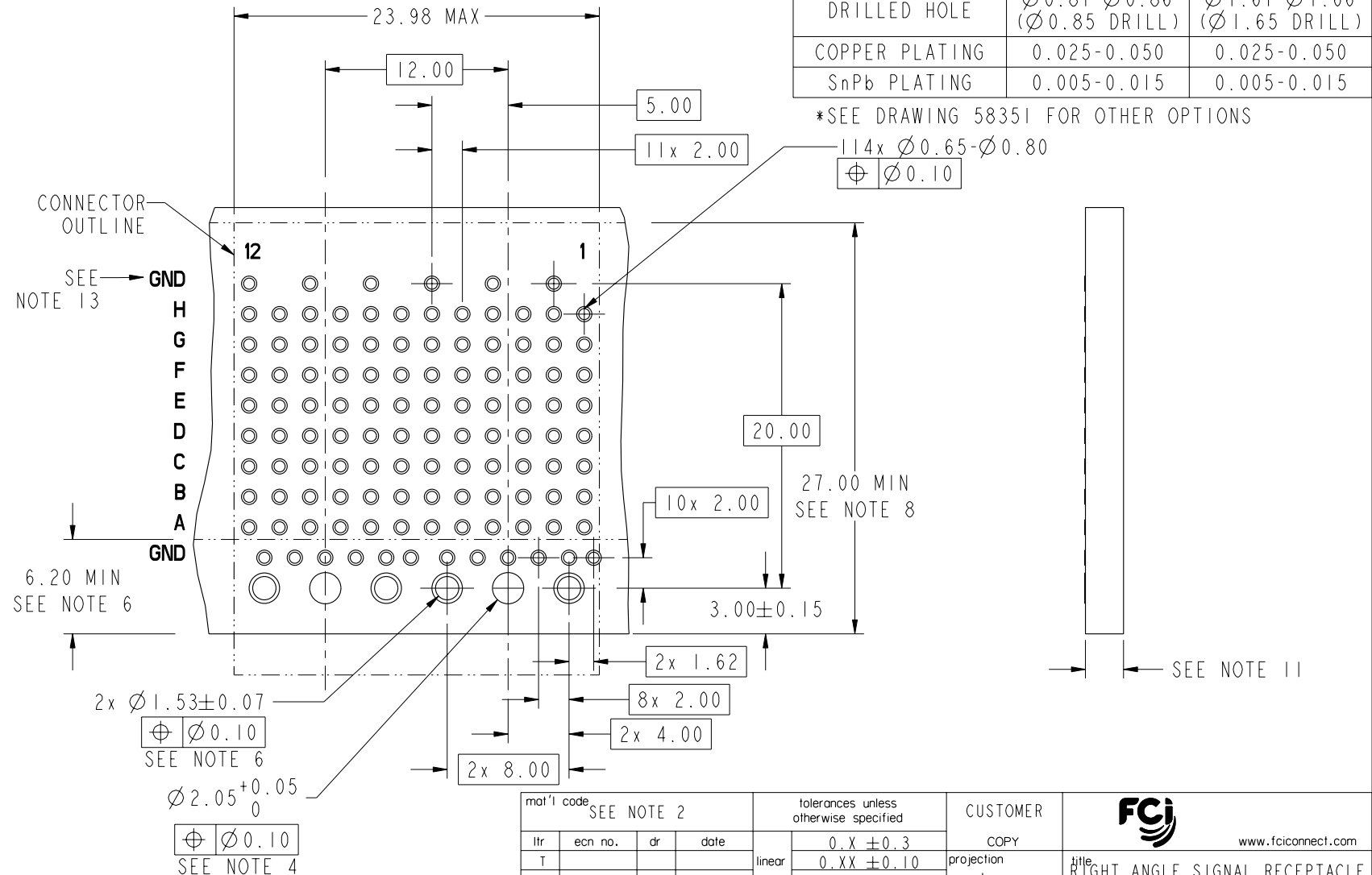
| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | FCI | |
|------------|----------|----------|------------|---------------------------------------|----------------------|------------|---|-------------------------------|--|
| SEE NOTE 2 | | | | | | COPY | | www.fciconnect.com | |
| ltr | ecm no. | dr | date | linear | 0.X ±0.3 | projection | | title | |
| P | V06-0544 | DCH | 2006-06-09 | | 0.XX ±0.10 | MM | | RIGHT ANGLE SIGNAL RECEPTACLE | |
| R | V07-0316 | DCH | 2007-04-25 | | 0.XXX ±0.050 | 2:1 | | 8 ROW, 96 POSITION | |
| S | V07-0604 | DCH | 2007-09-18 | angles | 0° ±2° | A | | product family | |
| T | V08-0078 | HTB | 2008-02-15 | dr | S. KLINE 2000-03-09 | MM | | METRAL 1000 | |
| - | - | - | - | enrg | M. HAHN 2000-03-09 | A | | code | |
| M | V04-0582 | TAB | 2004-06-11 | chr | S. STONER 2000-08-24 | 2:1 | | size | |
| N | V05-0192 | DAI | 2005-04-15 | appd | M. HAHN 2000-08-24 | A | | dwg no | |
| sheet | | revision | | T | T | T | T | 74981 | |
| index | | sheet | | 1 | 2 | 3 | 4 | 213 | |
| | | | | | | | | sheet | |
| | | | | | | | | 1 of 4 | |

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES

| | | |
|-----------------------------|--|--|
| HOLE DIAMETER AFTER PLATING | $\varnothing 0.65 - \varnothing 0.80$ * | $\varnothing 1.53$ |
| DRILLED HOLE | $\varnothing 0.81 - \varnothing 0.86$ ($\varnothing 0.85$ DRILL) | $\varnothing 1.61 - \varnothing 1.66$ ($\varnothing 1.65$ DRILL) |
| COPPER PLATING | 0.025-0.050 | 0.025-0.050 |
| SnPb PLATING | 0.005-0.015 | 0.005-0.015 |

*SEE DRAWING 58351 FOR OTHER OPTIONS



CONNECTOR OUTLINE
SEE NOTE 13

GND
H
G
F
E
D
C
B
A
GND

6.20 MIN
SEE NOTE 6

2x $\varnothing 1.53 \pm 0.07$
 $\varnothing 0.10$
SEE NOTE 6

$\varnothing 2.05^{+0.05}_0$
 $\varnothing 0.10$
SEE NOTE 4

RECOMMENDED PCB HOLE PATTERN-COMPONENT SIDE

| | | | | | | | | |
|--------------------------|----------------|----|------|---------------------------------------|----------------------|------------|--|--|
| mat'l code SEE NOTE 2 | | | | tolerances unless otherwise specified | | CUSTOMER | FCj www.fciconnect.com | |
| ltr | ecr no. | dr | date | linear | 0.X ± 0.3 | COPY | title RIGHT ANGLE SIGNAL RECEPTACLE 8 ROW, 96 POSITION | |
| T | | | | linear | 0.XX ± 0.10 | projection | product family METRAL 1000 code 213 | |
| | | | | angles | 0.XXX ± 0.050 | | size dwg no 74981 sheet 2 | |
| | | | | dr | S. KLINE 2000-03-09 | MM | cage code 22526 4 | |
| | | | | engr | M. HAHN 2000-03-09 | ← MM → | | |
| | | | | chr | S. STONER 2000-08-24 | scale 1:1 | | |
| | | | | appd | M. HAHN 2000-08-24 | | | |
| sheet index | revision sheet | | | | | | | |



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PRODUCT NUMBER
SEE SHEET 1


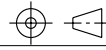
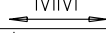
NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994
2. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, GLASS FILLED FLAME RETARDANT PER UL94V-0
GROUND SHIELD MATERIAL: COPPER ALLOY
SIGNAL CONTACT MATERIAL: COPPER ALLOY
3. PLATING:
PRESS-FIT TAIL AREA: SnPb ON STANDARD Sn ON LEAD FREE
MATING CONTACT POINTS: MEETS PERFORMANCE LEVEL SHOWN IN TABLE ON SHEET 1.
4. Ø2.05 HOLE IS UNPLATED.
5. Ø1.53 PLATED HOLES (2X) ARE FOR GROUNDS.
6. AVOID TRACES IN THIS AREA ON TOP OF PCB DUE TO EXPOSED GROUND SHIELD.
7. UNDERPLATING FOR SHIELD AND SIGNAL CONTACTS IS 1.3 µm Ni MIN.
8. COMPONENT KEEP OUT ZONE FOR PRESS BLOCK CLEARANCE.
9. PRODUCT MARKING: DATE AND LOT CODE.
10. SEE GS-20-018 FOR APPLICATION OF CONNECTOR TO PCB.
11. PCB THICKNESS RANGE: 1.3mm TO 3.4mm.
12. SEE PRODUCT SPECIFICATION GS-12-134 FOR PRODUCT PERFORMANCE CHARACTERISTICS.
13. THIS GROUND ROW OF VIA-HOLES ONLY REQUIRED FOR PREVIOUS REVISIONS OF THIS DESIGN WHERE THE TOP SHIELDS HAD EON PRESS-FIT. DUE TO INVENTORIES OF PREVIOUS VERSION, WE RECOMMEND THEY BE DESIGNED IN.
14. PRODUCTS WHERE THE PART NUMBER 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.



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| | | | | | | | | | | | |
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| mat'l code SEE NOTE 2 | | | | tolerances unless otherwise specified | | | CUSTOMER | |  www.fciconnect.com | | |
| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | | | COPY | | title RIGHT ANGLE SIGNAL RECEPTACLE 8 ROW, 96 POSITION | |
| T | | | | | 0.XX ±0.10 | | | projection | | | |
| | | | | angles | 0.XXX ±0.050 | | |  | | | |
| | | | | | 0° ±2° | | | | | | |
| | | | | dr | S. KLINE | 2000-03-09 | MM  | | product family METRAL 1000 | | code |
| | | | | engr | M. HAHN | 2000-03-09 | | | size | dwg no | 213 |
| | | | | chr | S. STONER | 2000-08-24 | scale 2:1 | | A | | sheet |
| | | | | appd | M. HAHN | 2000-08-24 | | | 74981 | | 3 |
| sheet index | revision sheet | | | | | | | | | | |

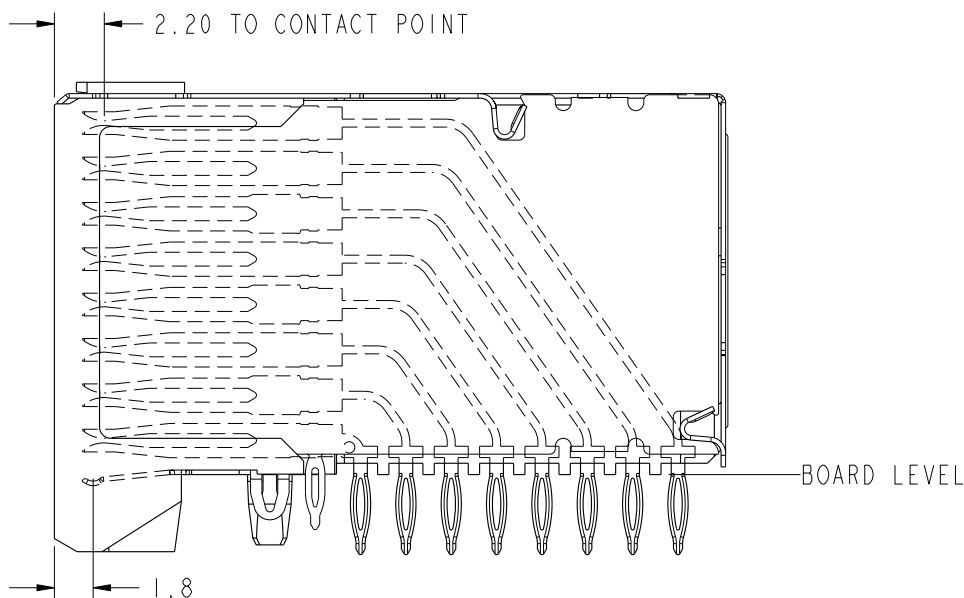
1 | 2

3 |

4

PRODUCT NUMBER
SEE SHEET 1

| DISTANCE FROM CONTACT POINT TO BOARD | |
|--------------------------------------|----------|
| CONTACT | DISTANCE |
| A | 12.5 |
| B | 15.9 |
| C | 18.9 |
| D | 21.9 |
| E | 25.0 |
| F | 28.0 |
| G | 31.1 |
| H | 34.1 |



CONTACT POINT AND SKEW



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| mat'l code SEE NOTE 2 | | | | tolerances unless otherwise specified | | CUSTOMER | | www.fciconnect.com | |
| ltr | ecm no. | dr | date | linear | 0.X ±0.3 | | COPY | | title RIGHT ANGLE SIGNAL RECEPTACLE 8 ROW, 96 POSITION |
| T | | | | | 0.XX ±0.10 | | MM | | |
| | | | | angles | 0.XXX ±0.050 | | product family METRAL 1000 code | | |
| | | | | | 0° ±2° | | size | | |
| | | | | dr | S. KLINE | 2000-03-09 | dwg no | | 213 |
| | | | | enr | M. HAHN | 2000-03-09 | A | | sheet |
| | | | | chr | S. STONER | 2000-08-24 | 74981 | | 4 |
| | | | | appd | M. HAHN | 2000-08-24 | scale | | |
| sheet index | | revision sheet | | | | 3:1 | | | |

1 | 2

Pro/E

3 |

cage code 22526

4