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| LOC | DIST | REVISIONS   |                           |           |       |
|-----|------|-------------|---------------------------|-----------|-------|
| P   | LTR  | DESCRIPTION | DATE                      | DWN       | APVD  |
| FT  | 47   | H1          | REVISED PER ECO-14-001124 | 24JAN2014 | NK MZ |

Technical drawing of a pin assembly. The drawing includes a side view and an end view. Key dimensions and callouts include:
 

- Pin diameter:  $\phi 1.588^{+0.025}_{-0.051}$  with a tolerance of  $[\ .0625^{+0.001}_{-0.002}]$ .
- Pin body length: 9.91 [ .390 ] MIN.
- Spring length: 27.10 ± 0.51 [ 1.067 ± 0.20 ].
- End view diameter:  $\phi 2.87$  [ .113 ] MAX.
- End view length: 20.24 ± 0.25 [ .797 ± 0.10 ].
- End view thickness: 1.65 MIN [ .065 ] TYP.
- End view chamfer: 0.38 MAX [ .015 ] CUT-OFF.
- Callout 4:  $\triangle 4$  at the end of the spring.

$\triangle 10$  1.27 $\mu$ m [ .000050 ] MIN TIN PER MIL-T-10727 OVER  
 1.27 $\mu$ m [ .000050 ] MIN NICKEL PER QQ-N-290.

SECTION A-A cross-section showing dimensions:
 

- Top width:  $2.92^{+0.13}_{-0.25}$  [ .115 ± .005 ]
- Bottom width:  $2.18^{+0.25}_{-0.13}$  [ .086 ± .005 ] TYP

SECTION B-B cross-section showing dimensions:
 

- Top width:  $2.41^{+0.13}_{-0.25}$  [ .095 ± .005 ]
- Bottom width:  $2.08^{+0.25}_{-0.13}$  [ .082 ± .010 ] TYP

$\triangle 1$  0.76 $\mu$ m [ .000030 ] MIN PRECIOUS METAL PLATE ON MATING END FOR A LENGTH OF 5.08 [ .200 ] MIN WITH 1.27 $\mu$ m [ .000050 ] MIN MATTE TIN PLATE IN WIRE CRIMP AREA, BOTH OVER 1.27 $\mu$ m [ .000050 ] MIN NICKEL PLATE. CONFORMS TO THE REQUIREMENTS OF TYCO ELECTRONICS PRODUCT SPEC 108-10042, BASED ON EIA/ECA-364-1000.01 (CONTROLLED ENVIRONMENT APPLICATIONS),

$\triangle 2$  0.76 $\mu$ m [ .000030 ] MIN PRECIOUS METAL PLATE ON MATING END FOR A LENGTH OF 5.08 [ .200 ] MIN WITH A UNIFORM GRADIENT TO 0.25 $\mu$ m [ .000010 ] MIN ON REMAINDER, OVER 1.27 $\mu$ m [ .000050 ] MIN NICKEL PLATE. GOLD FLASH ALL OVER. CONFORMS TO THE REQUIREMENTS OF TYCO ELECTRONICS PRODUCT SPEC 108-10042, BASED ON EIA/ECA-364-1000.01 (CONTROLLED ENVIRONMENT APPLICATIONS).

$\triangle 3$  0.38 $\mu$ m [ .000015 ] MIN GOLD PER MIL-G-45204 ON MATING END FOR A LENGTH OF 5.08 [ .200 ] MIN 1.27 $\mu$ m [ .000050 ] MIN MATTE TIN PLATE IN WIRE CRIMP AREA, BOTH OVER 1.27 $\mu$ m [ .000050 ] MIN NICKEL PER QQ-N-290.

$\triangle 4$  GOLD PLATING NOT REQUIRED IN THIS AREA.

$\triangle 5$  1.27 $\mu$ m [ .000050 ] MIN GOLD PER MIL-G-45204 ON MATING END FOR A LENGTH OF 5.08 [ .200 ] MIN WITH GOLD FLASH ON THE REMAINDER OVER 1.90 $\mu$ m [ .000075 ] MIN NICKEL PER QQ-N-290.

$\triangle 6$  1.27 $\mu$ m [ .000050 ] MIN TIN-LEAD PER MIL-T-10727 OVER 1.27 $\mu$ m [ .000050 ] MIN NICKEL PER QQ-N-290.

7 WIRE RANGE 24-20 AWG.

8 INSULATION RANGE 1.02 [ .040 ] - 2.03 [ .080 ] DIA.

$\triangle 9$  0.38 $\mu$ m [ .000015 ] MIN GOLD PER MIL-G-45204 ON MATING END FOR A LENGTH OF 5.08 [ .200 ] MIN, 1.27 $\mu$ m [ .000050 ] MIN TIN-LEAD PER MIL-T-10727 FOR A LENGTH OF 5.69 [ .224 ] MIN ON OPPOSITE END, BOTH OVER 1.27 $\mu$ m [ .000050 ] MIN NICKEL PER QQ-N-290 ON ENTIRE CONTACT.

| PACKAGING TYPE | BODY FINISH    | BODY MATERIAL | STRIP P/N REF          | PART NO   |           |
|----------------|----------------|---------------|------------------------|-----------|-----------|
| SMALL PACK     | $\triangle 10$ | BRASS         | 2-66102-5 OR 2-66102-6 | 1-66103-9 |           |
| STANDARD       | $\triangle 10$ | BRASS         | 2-66102-5 OR 2-66102-6 | 1-66103-8 |           |
| SMALL PACK     | $\triangle 1$  | BRASS         | 66102-4                | 1-66103-7 |           |
| SMALL PACK     | $\triangle 3$  | BRASS         | 66102-3                | 1-66103-6 |           |
| SMALL PACK     | $\triangle 6$  | BRASS         | 66102-2                | 1-66103-5 |           |
| SMALL PACK     | $\triangle 2$  | BRASS         | 66102-1                | 1-66103-4 |           |
| OBSOLETE       | STANDARD       | $\triangle 9$ | BRASS                  | 2-66102-3 | 1-66103-3 |
| OBSOLETE       | STANDARD       | $\triangle 1$ | PHOSPHOR BRONZE        | 2-66102-2 | 1-66103-2 |
| OBSOLETE       | STANDARD       | $\triangle 6$ | PHOSPHOR BRONZE        | 2-66102-1 | 1-66103-1 |
| STANDARD       | $\triangle 1$  | BRASS         | 66102-4                | 66103-4   |           |
| STANDARD       | $\triangle 3$  | BRASS         | 66102-3                | 66103-3   |           |
| STANDARD       | $\triangle 6$  | BRASS         | 66102-2                | 66103-2   |           |
| STANDARD       | $\triangle 2$  | BRASS         | 66102-1                | 66103-1   |           |

|  |                 |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
|--|-----------------|-----------|--------------|--|---------|---------------|-----------|-----------------|------------|---------|---------------|-----|------------------|-----|-------|--------------|-------|--------|-----|----|
| THIS DRAWING IS A CONTROLLED DOCUMENT.   |                 | DWN       | 06/01/92     | <br>TE Connectivity  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| DIMENSIONS: mm [INCHES]  |                 | CHK       | 6-11-92      |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:   |                 | APVD      | 7-7-92       |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| <table border="1"> <tr><td>0 PLC</td><td>± -</td></tr> <tr><td>1 PLC</td><td>± -</td></tr> <tr><td>2 PLC</td><td>± 0.13 [ .005 ]</td></tr> <tr><td>3 PLC</td><td>± -</td></tr> <tr><td>4 PLC</td><td>± -</td></tr> <tr><td>ANGLES</td><td>± -</td></tr> </table> |                 | 0 PLC     | ± -          |  | 1 PLC   | ± -           | 2 PLC     | ± 0.13 [ .005 ] | 3 PLC      | ± -     | 4 PLC         | ± - | ANGLES           | ± - | NAME  | G.STEINHAUER |       |        |     |    |
| 0 PLC  | ± -             |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| 1 PLC  | ± -             |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| 2 PLC  | ± 0.13 [ .005 ] |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| 3 PLC  | ± -             |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| 4 PLC  | ± -             |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| ANGLES   | ± -             |           |              |  |         |               |           |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| MATERIAL   | SEE CALLOUTS    | FINISH    | SEE CALLOUTS | <table border="1"> <tr> <td>SIZE</td> <td>A2</td> <td>CAGE CODE</td> <td>00779</td> <td>DRAWING NO</td> <td>C=66103</td> <td>RESTRICTED TO</td> <td>-</td> </tr> <tr> <td colspan="2">CUSTOMER DRAWING</td> <td>SCALE</td> <td>8:1</td> <td>SHEET</td> <td>1 OF 1</td> <td>REV</td> <td>H1</td> </tr> </table> | SIZE    | A2            | CAGE CODE | 00779           | DRAWING NO | C=66103 | RESTRICTED TO | -   | CUSTOMER DRAWING |     | SCALE | 8:1          | SHEET | 1 OF 1 | REV | H1 |
| SIZE   | A2              | CAGE CODE | 00779        | DRAWING NO   | C=66103 | RESTRICTED TO | -         |                 |            |         |               |     |                  |     |       |              |       |        |     |    |
| CUSTOMER DRAWING   |                 | SCALE     | 8:1          | SHEET  | 1 OF 1  | REV           | H1        |                 |            |         |               |     |                  |     |       |              |       |        |     |    |

1471-9 (3/11)