



- 1 MATERIAL  
HOUSING: THERMOPLASTIC POLYESTER, GLASS FILLED, DR-48. UL94V-0.  
POST: COPPER ALLOY
- 2 FINISH  
HOUSING: BLACK  
POST: BRIGHT TIN-LEAD (93/7) 0.00380 [.000150]-  
0.00880 [.000350] THICK OVER NICKEL UNDERPLATE 0.00130  
[.000050] MINIMUM THICK OR MATTE TIN PLATE 0.00380  
[.000150] THICK OVER NICKEL UNDERPLATE 0.00130 [.000050]  
MINIMUM THICK IF LEAD FREE.
- 3 UL MARKING MAY NOT APPEAR ON THE 3 POSITION SIZE.
- 4 POST SOLDERTAILS COMPLY WITH AMP SOLDERABILITY SPEC 109-11-2.
- 5 POST WITHSTANDS 13.34N (3 LB) MIN AXIAL FORCE IN EITHER  
DIRECTION WITHOUT DISLODGING.
- 6 APPLIES AT [-A-].
- 7 APPLIES WHEN THE HEADER IS STRAIGHT.
- 8 PLASTIC PROJECTIONS PERMITTED IN THIS ZONE.
- 9 COORDINATE DIMENSIONS APPLIES FROM THE CENTER  
OF THE ACTUAL FEATURE.
- 10 SOLDER SIDE OF BOARD IS SHOWN.
- 11 DIMENSIONS IN BRACKETS ARE IN INCHES.
- 12 ALL POSITION SIZES HAVE THE BACK WALL NOTCHED  
ON BOTH ENDS AS SHOWN. THE 2 THRU 5 POSITION SIZES  
HAVE SOLID BACK WALLS. POSITION SIZES 6 AND ABOVE HAVE AN  
INTERRUPTED BACK WALL AT VARIOUS LOCATIONS (SEE TABLE  
FOR INTERRUPTION(S) LOCATIONS).
- 13 EDGE OF POLARIZING LOCK WALL TO BE IN LINE WITH CENTERLINE  
OF ADJACENT POST WITHIN ±0.13 [.005].
- 14 NOTCH SHOWN MAY OR MAY NOT APPEAR.
- 15 OBSOLETE PART NUMBER

|       |           |                                       |         |         |                 |             |  |
|-------|-----------|---------------------------------------|---------|---------|-----------------|-------------|--|
|       |           |                                       |         |         |                 |             |  |
|       | YES       | 4 & 5                                 | 27.61   | [1.087] | 7               | 3-647178-7  |  |
|       | NO        | 4 & 5                                 | 27.61   | [1.087] | 7               | 647178-7    |  |
| NOTES | LEAD FREE | BACK WALL INTERRUPTIONS BETWEEN POSTS | mm [IN] |         | NO OF POSITIONS | PART NUMBER |  |

|  |             |             |   |             |          |             |                 |
|--|-------------|-------------|---|-------------|----------|-------------|-----------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |             | 22-OCT-2004 | S. HOOVER                                 | 22-OCT-2004 | D. ROSSI | 22-OCT-2004 | TE Connectivity |
| DIMENSIONS:                            | mm [INCHES] |             | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |             |          |             |                 |
| 0 PLC                                  | ±           |             | APVD                                      |             |          |             |                 |
| 2 PLC                                  | ±           |             | 0 PLC                                     |             |          |             |                 |
| 3 PLC                                  | ±           |             | 2 PLC                                     |             |          |             |                 |
| 4 PLC                                  | ±           |             | 3 PLC                                     |             |          |             |                 |
|  |             |             | 4 PLC                                     |             |          |             |                 |
|  |             |             | ± 0.13 [.005]                             |             |          |             |                 |
| MATERIAL                               | 1           |             | FINISH                                    | 2           |          |             |                 |
| WEIGHT                                 |             |             |   |             |          |             |                 |
| SIZE                                   | CAGE CODE   | DRAWING NO  |   |             |          |             |                 |
| A1                                     | 00779       | C647178     |   |             |          |             |                 |
| RESTRICTED TO                          |             |             |   |             |          |             |                 |
| CUSTOMER DRAWING                       |             |             |   |             |          |             |                 |
| SCALE                                  | 5:1         | 1 OF 1      | REV                                       | E1          |          |             |                 |

METRIC