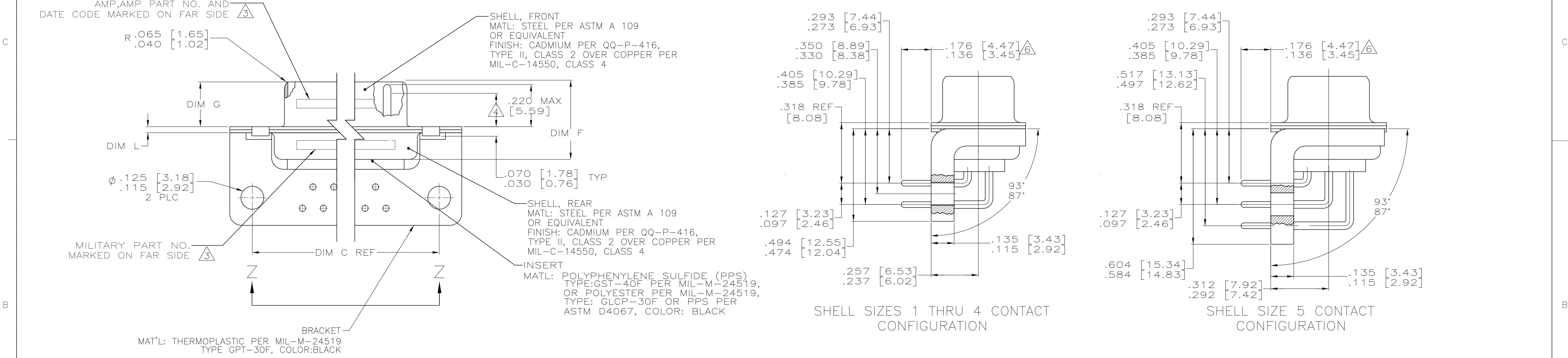


- SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C.BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .062 [1.57]
- THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY RECEPTACLE CONNECTOR WITH SAME INSERT ARRANGEMENT.
- MARKED WITH .047 [1.19]-.062 [1.57] HIGH CHARACTERS. FAR SIDE REFERS TO THE WIDE SIDE OF THE KEYSTONE. NEAR SIDE REFERS TO THE NARROW SIDE OF THE KEYSTONE. IF THE REAR SHELL IS TOO SMALL FOR THE ENTIRE MILITARY PART NUMBER, MARKING SHALL BE LOCATED AS FOLLOWS:
- A. "M24308" ON FRONT SHELL, FAR SIDE.
  - B. SLASH SHEET AND DASH NUMBER ON REAR SHELL, FAR SIDE.
  - C. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
  - D. AMP PART NUMBER ON REAR SHELL, NEAR SIDE.
- IF THE FRONT SHELL IS TOO SMALL FOR "AMP", AMP PART NUMBER AND DATE CODE, MARKING SHALL BE SPLIT AS FOLLOWS:
- A. AMP PART NUMBER ON REAR SHELL, NEAR SIDE.
  - B. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
  - C. MILITARY PART NUMBER ON REAR SHELL, FAR SIDE.
- REQUIREMENT FOR FULL PIN DIAMETER EXTENSION:
- .159 [4.04] MIN, SHELL SIZES 1 AND 2.
  - .150 [3.81] MIN, SHELL SIZES 3 AND 4.
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.
- SOLDER DIPPED PER MIL-STD-2000 COMPOSITION Sn63 CONFORMING TO QQ-S-571 IN THE ENTIRE AREA OF DIMENSION SHOWN. 1218441-6 THRU -10 ONLY.



|                                                                                                                                                                                                                                                        |                              |                                |                            |                              |                              |                              |                                |                                |                                |                                                                                                                                                                                                                                                                                                                                                        |              |               |                              |                                   |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------------------|-----------------------------------|-----------------|
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .544 [13.82]<br>.524 [13.31] | 2.188 [55.58]<br>2.168 [55.07] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .620 [15.75]<br>.590 [14.99] | .446 [11.33]<br>.436 [11.07] | 2.411 [61.24]<br>2.401 [60.99] | 2.084 [52.55]<br>2.074 [52.30] | 2.650 [67.31]<br>2.620 [66.55] | MS18277-1                                                                                                                                                                                                                                                                                                                                              | 50           | 5             | M24308/24-35F                | 1218441-5                         | 1-1218441-0     |
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 2.282 [57.96]<br>2.262 [57.45] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 2.505 [63.63]<br>2.495 [63.37] | 2.187 [54.97]<br>2.177 [54.71] | 2.744 [69.70]<br>2.714 [68.94] | MS18276-1                                                                                                                                                                                                                                                                                                                                              | 37           | 4             | M24308/24-34F                | 1218441-4                         | 1218441-9       |
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 1.635 [41.53]<br>1.615 [41.02] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 1.857 [47.17]<br>1.847 [46.91] | 1.539 [38.51]<br>1.529 [38.25] | 2.103 [53.42]<br>2.073 [52.65] | MS18275-1                                                                                                                                                                                                                                                                                                                                              | 25           | 3             | M24308/24-33F                | 1218441-3                         | 1218441-8       |
| .040 [1.02]<br>.020 [0.51]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 1.093 [27.76]<br>1.073 [27.25] | .238 [6.05]<br>.229 [5.82] | .432 [10.97]<br>.412 [10.46] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 1.317 [33.45]<br>1.307 [33.20] | .999 [24.79]<br>.989 [24.54]   | 1.556 [39.52]<br>1.526 [38.76] | MS18274-1                                                                                                                                                                                                                                                                                                                                              | 15           | 2             | M24308/24-32F                | 1218441-2                         | 1218441-7       |
| .040 [1.02]<br>.020 [0.51]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | .769 [19.53]<br>.749 [19.02]   | .238 [6.05]<br>.229 [5.82] | .432 [10.97]<br>.412 [10.46] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | .989 [25.12]<br>.979 [24.87]   | .671 [16.46]<br>.661 [16.21]   | 1.228 [31.19]<br>1.198 [30.43] | MS18273-1                                                                                                                                                                                                                                                                                                                                              | 9            | 1             | M24308/24-31F                | 1218441-1                         | 1218441-6       |
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .544 [13.82]<br>.524 [13.31] | 2.188 [55.58]<br>2.168 [55.07] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .620 [15.75]<br>.590 [14.99] | .446 [11.33]<br>.436 [11.07] | 2.411 [61.24]<br>2.401 [60.99] | 2.084 [52.55]<br>2.074 [52.30] | 2.650 [67.31]<br>2.620 [66.55] | MS18277-1                                                                                                                                                                                                                                                                                                                                              | 50           | 5             | M24308/24-35F                | 1218441-5                         | 1218441-5       |
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 2.282 [57.96]<br>2.262 [57.45] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 2.505 [63.63]<br>2.495 [63.37] | 2.187 [54.97]<br>2.177 [54.71] | 2.744 [69.70]<br>2.714 [68.94] | MS18276-1                                                                                                                                                                                                                                                                                                                                              | 37           | 4             | M24308/24-34F                | 1218441-4                         | 1218441-4       |
| .049 [1.24]<br>.029 [0.74]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 1.635 [41.53]<br>1.615 [41.02] | .236 [5.99]<br>.224 [5.69] | .436 [11.07]<br>.416 [10.57] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 1.857 [47.17]<br>1.847 [46.91] | 1.539 [38.51]<br>1.529 [38.25] | 2.103 [53.42]<br>2.073 [52.65] | MS18275-1                                                                                                                                                                                                                                                                                                                                              | 25           | 3             | M24308/24-33F                | 1218441-3                         | 1218441-3       |
| .040 [1.02]<br>.020 [0.51]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | 1.093 [27.76]<br>1.073 [27.25] | .238 [6.05]<br>.229 [5.82] | .432 [10.97]<br>.412 [10.46] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | 1.317 [33.45]<br>1.307 [33.20] | .999 [24.79]<br>.989 [24.54]   | 1.556 [39.52]<br>1.526 [38.76] | MS18274-1                                                                                                                                                                                                                                                                                                                                              | 15           | 2             | M24308/24-32F                | 1218441-2                         | 1218441-2       |
| .040 [1.02]<br>.020 [0.51]                                                                                                                                                                                                                             | .432 [10.97]<br>.412 [10.46] | .769 [19.53]<br>.749 [19.02]   | .238 [6.05]<br>.229 [5.82] | .432 [10.97]<br>.412 [10.46] | .509 [12.93]<br>.479 [12.17] | .334 [8.48]<br>.324 [8.23]   | .989 [25.12]<br>.979 [24.87]   | .671 [16.46]<br>.661 [16.21]   | 1.228 [31.19]<br>1.198 [30.43] | MS18273-1                                                                                                                                                                                                                                                                                                                                              | 9            | 1             | M24308/24-31F                | 1218441-1                         | 1218441-1       |
| DIM L                                                                                                                                                                                                                                                  | DIM J                        | DIM H                          | DIM G                      | DIM F                        | DIM E                        | DIM D                        | DIM C                          | DIM B                          | DIM A                          | INSERT<br>ARRANGEMENT                                                                                                                                                                                                                                                                                                                                  | NO OF<br>POS | SHELL<br>SIZE | MILITARY P/N<br>ON CONNECTOR | AMP P/N<br>MARKED<br>ON CONNECTOR | AMP<br>PART NO. |
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>DIMENSIONS: INCHES<br>TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± .001<br>1 PLC ± .001<br>2 PLC ± .001<br>3 PLC ± .001<br>4 PLC ± .001<br>ANGLES ± .1°<br>MATERIAL SEE CALLOUTS<br>FINISH SEE CALLOUTS |                              |                                |                            |                              |                              |                              |                                |                                |                                | DWN C.C.THOMAS 12-6-99<br>CHK CHAD BAKER 12-15-99<br>APVD CHAD BAKER 12-15-99<br>NAME<br>Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608<br>PLUG ASSY, AMPLIMITE<br>RIGHT ANGLE, SERIES 109<br>SIZES 1 THRU 5<br>SIZE A1<br>CAGE CODE 00779<br>DRAWING NO 1218441<br>RESTRICTED TO<br>CUSTOMER DRAWING<br>SCALE 4:1<br>SHEET 1 OF 2<br>REV C |              |               |                              |                                   |                 |

