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REV.  
B

AS85049™/138

FEDERAL SUPPLY CLASS  
5935

## RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING, REPLACE TABLES WITH WORD TABLES, REPLACE PART NUMBER IMAGES WITH WORD TEXT, AND MOVE NOTES TO REQUIREMENTS SECTION. TO ADD THE AS95234 SPECIFICATION AND APPLICABLE DIMENSIONS TO TABLES 1 AND 2, SHEET 5: CHANGE THE "B" MATERIAL TO READ: B = ELECTROSTATIC FREE MATERIAL, COLOR BLACK, SURFACE RESISTIVITY OF AT LEAST  $1 \times 10^5$  OHMS/SQUARE BUT LESS THAN  $1 \times 10^{12}$  OHMS/SQUARE WHEN TESTED TO ASTM D257, NON-SLOUGHING. ESD SYMBOL SHALL BE MARKED ON EACH CAP.

## NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

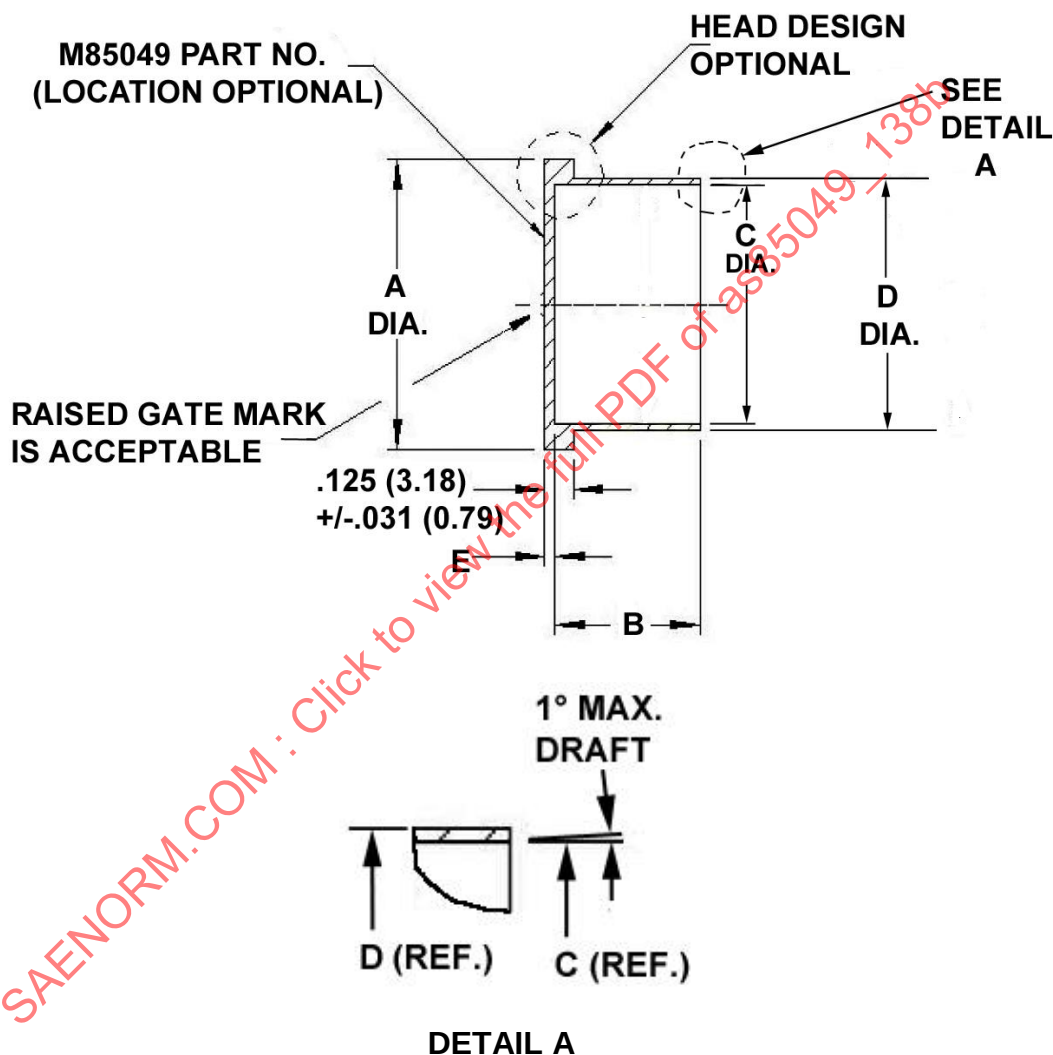
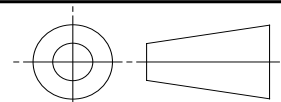


FIGURE 1 – ACCESSORY DIMENSIONS AND CONFIGURATION

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS85049/138B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



## AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES,  
ELECTRICAL, CAP, DUST,  
PLASTIC, CATEGORY 9

AS85049™/138  
SHEET 1 OF 6

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**TABLE 1 – FIGURE 1 DIMENSIONS**

| DASH NUMBER | STANDARD COLOR | A ±.031<br>(0.79) DIA. | B ±.031<br>(0.79) DIM. | C ±.010<br>(0.25) DIA. | D ±.010<br>(0.25) DIA. | E ±.010<br>(0.25) DIM. | SUPERSEDES<br>AS90376- |
|-------------|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 08          | RED            | .430 (10.92)           | .500 (12.70)           | .245 (6.22)            | .305 (7.75)            | .035 (0.89)            | -                      |
| 10          | RED            | .500 (12.70)           | .500 (12.70)           | .305 (7.75)            | .365 (9.27)            | .035 (0.89)            | -                      |
| 11          | RED            | .585 (14.86)           | .500 (12.70)           | .345 (8.76)            | .405 (10.29)           | .035 (0.89)            | -                      |
| 12          | YELLOW         | .620 (15.75)           | .500 (12.70)           | .368 (9.35)            | .438 (11.13)           | .035 (0.89)            | -                      |
| 14          | YELLOW         | .670 (17.02)           | .625 (15.88)           | .413 (10.49)           | .483 (12.27)           | .040 (1.02)            | 8Y                     |
| 15          | YELLOW         | .682 (17.32)           | .625 (15.88)           | .442 (11.23)           | .502 (12.75)           | .040 (1.02)            | -                      |
| 16          | RED            | .740 (18.80)           | .500 (12.70)           | .480 (12.19)           | .540 (13.72)           | .040 (1.02)            | 8R                     |
| 18          | YELLOW         | .750 (19.05)           | .625 (15.88)           | .530 (13.46)           | .595 (15.11)           | .040 (1.02)            | 10Y                    |
| 19          | YELLOW         | .810 (20.57)           | .625 (15.88)           | .570 (14.48)           | .630 (16.00)           | .040 (1.02)            | -                      |
| 20          | RED            | .840 (21.34)           | .500 (12.70)           | .605 (15.37)           | .665 (16.89)           | .040 (1.02)            | 10R                    |
| 22          | YELLOW         | .860 (21.84)           | .625 (15.88)           | .655 (16.64)           | .715 (18.16)           | .040 (1.02)            | 12Y                    |
| 24          | RED            | .970 (24.64)           | .500 (12.70)           | .720 (18.29)           | .775 (19.69)           | .040 (1.02)            | 12R                    |
| 26          | YELLOW         | 1.031 (26.19)          | .625 (15.88)           | .785 (19.94)           | .845 (21.46)           | .045 (1.14)            | 14Y                    |
| 27          | RED            | 1.050 (26.67)          | .500 (12.70)           | .810 (20.57)           | .870 (22.10)           | .045 (1.14)            | -                      |
| 28          | RED            | 1.125 (28.58)          | .500 (12.70)           | .850 (21.59)           | .905 (22.99)           | .045 (1.14)            | 14R                    |
| 29          | YELLOW         | 1.125 (28.58)          | .625 (15.88)           | .893 (22.68)           | .963 (24.46)           | .045 (1.14)            | 16Y                    |
| 30          | YELLOW         | 1.160 (29.46)          | .625 (15.88)           | .910 (23.11)           | .980 (24.89)           | .045 (1.14)            | -                      |
| 31          | RED            | 1.180 (29.97)          | .500 (12.70)           | .930 (23.62)           | 1.000 (25.40)          | .045 (1.14)            | -                      |
| 33          | RED            | 1.220 (30.99)          | .500 (12.70)           | .973 (24.71)           | 1.035 (26.29)          | .045 (1.14)            | 16R                    |
| 34          | YELLOW         | 1.250 (31.75)          | .625 (15.88)           | 1.028 (26.11)          | 1.088 (27.64)          | .045 (1.14)            | 18Y                    |
| 35          | RED            | 1.312 (33.32)          | .500 (12.70)           | 1.062 (26.97)          | 1.132 (28.75)          | .045 (1.14)            | -                      |
| 36          | RED            | 1.330 (33.78)          | .562 (14.27)           | 1.093 (27.76)          | 1.155 (29.34)          | .045 (1.14)            | 18R                    |
| 37          | YELLOW         | 1.375 (34.93)          | .625 (15.88)           | 1.120 (28.45)          | 1.190 (30.23)          | .045 (1.14)            | -                      |
| 38          | YELLOW         | 1.406 (35.71)          | .625 (15.88)           | 1.150 (29.21)          | 1.215 (30.86)          | .050 (1.27)            | 20Y                    |
| 39          | RED            | 1.438 (36.53)          | .562 (14.27)           | 1.180 (29.97)          | 1.250 (31.75)          | .050 (1.27)            | -                      |
| 40          | YELLOW         | 1.450 (36.83)          | .625 (15.88)           | 1.200 (30.48)          | 1.270 (32.26)          | .050 (1.27)            | -                      |
| 41          | RED            | 1.465 (37.21)          | .562 (14.27)           | 1.231 (31.27)          | 1.301 (33.05)          | .050 (1.27)            | 20R                    |
| 42          | YELLOW         | 1.500 (38.10)          | .625 (15.88)           | 1.270 (32.26)          | 1.340 (34.04)          | .050 (1.27)            | 22Y                    |
| 43          | YELLOW         | 1.547 (39.29)          | .625 (15.88)           | 1.297 (32.94)          | 1.367 (34.72)          | .050 (1.27)            | -                      |
| 44          | RED            | 1.570 (39.88)          | .562 (14.27)           | 1.320 (33.53)          | 1.390 (35.31)          | .050 (1.27)            | -                      |
| 45          | RED            | 1.590 (40.39)          | .562 (14.27)           | 1.340 (34.04)          | 1.410 (35.81)          | .050 (1.27)            | 22R                    |
| 46          | YELLOW         | 1.610 (40.89)          | .625 (15.88)           | 1.360 (34.54)          | 1.430 (36.32)          | .050 (1.27)            | -                      |
| 47          | YELLOW         | 1.640 (41.66)          | .625 (15.88)           | 1.390 (35.31)          | 1.460 (37.08)          | .050 (1.27)            | 24Y                    |
| 48          | RED            | 1.665 (42.29)          | .562 (14.27)           | 1.415 (35.94)          | 1.485 (37.72)          | .050 (1.27)            | -                      |
| 49          | YELLOW         | 1.700 (43.18)          | .625 (15.88)           | 1.450 (36.83)          | 1.520 (38.61)          | .050 (1.27)            | -                      |
| 50          | RED            | 1.700 (43.18)          | .562 (14.27)           | 1.463 (37.16)          | 1.533 (38.94)          | .050 (1.27)            | 24R                    |
| 50A         | YELLOW         | 1.755 (44.58)          | .625 (15.88)           | 1.505 (38.23)          | 1.575 (40.00)          | .050 (1.27)            | -                      |
| 51          | YELLOW         | 1.810 (45.97)          | .625 (15.88)           | 1.540 (39.12)          | 1.610 (40.89)          | .050 (1.27)            | 25Y                    |
| 52          | RED            | 1.820 (46.23)          | .562 (14.27)           | 1.570 (39.88)          | 1.640 (41.66)          | .050 (1.27)            | -                      |
| 53          | RED            | 1.850 (46.99)          | .562 (14.27)           | 1.600 (40.64)          | 1.670 (42.42)          | .055 (1.40)            | -                      |
| 55          | YELLOW         | 1.875 (47.63)          | .625 (15.88)           | 1.648 (41.86)          | 1.718 (43.64)          | .055 (1.40)            | 28Y                    |
| 57          | RED            | 1.950 (49.53)          | .562 (14.27)           | 1.715 (43.56)          | 1.790 (45.47)          | .055 (1.40)            | 28R                    |
| 58          | YELLOW         | 1.988 (50.49)          | .625 (15.88)           | 1.753 (44.53)          | 1.828 (46.43)          | .055 (1.40)            | -                      |
| 60          | RED            | 2.020 (51.31)          | .562 (14.27)           | 1.770 (44.96)          | 1.840 (46.74)          | .055 (1.40)            | -                      |
| 61          | RED            | 2.064 (52.43)          | .625 (15.88)           | 1.824 (46.33)          | 1.904 (48.36)          | .055 (1.40)            | -                      |
| 63          | YELLOW         | 2.125 (53.98)          | .625 (15.88)           | 1.890 (48.01)          | 1.970 (50.04)          | .055 (1.40)            | 32Y                    |
| 65          | RED            | 2.220 (56.39)          | .562 (14.27)           | 1.965 (49.91)          | 2.040 (51.82)          | .055 (1.40)            | 32R                    |
| 66          | RED            | 2.317 (58.85)          | .625 (15.88)           | 2.087 (53.01)          | 2.157 (54.79)          | .055 (1.40)            | -                      |
| 71          | YELLOW         | 2.340 (59.44)          | .625 (15.88)           | 2.140 (54.36)          | 2.210 (56.13)          | .055 (1.40)            | 36Y                    |
| 74          | RED            | 2.435 (61.85)          | .600 (15.24)           | 2.215 (56.26)          | 2.290 (58.17)          | .055 (1.40)            | 36R                    |
| 75          | YELLOW         | 2.500 (63.50)          | .600 (15.24)           | 2.280 (57.91)          | 2.355 (59.82)          | .055 (1.40)            | -                      |
| 76          | RED            | 2.547 (64.69)          | .625 (15.88)           | 2.332 (59.23)          | 2.402 (61.01)          | .060 (1.52)            | -                      |
| 77          | YELLOW         | 2.600 (66.04)          | .625 (15.88)           | 2.380 (60.45)          | 2.450 (62.23)          | .060 (1.52)            | 40Y                    |
| 81          | RED            | 2.660 (67.56)          | .600 (15.24)           | 2.440 (61.98)          | 2.530 (64.26)          | .060 (1.52)            | 40R                    |
| 87          | YELLOW         | 2.875 (73.03)          | .625 (15.88)           | 2.630 (66.80)          | 2.700 (68.58)          | .060 (1.52)            | 44Y                    |
| 90          | RED            | 2.960 (75.18)          | .600 (15.24)           | 2.720 (69.09)          | 2.812 (71.42)          | .060 (1.52)            | 44R                    |
| 96          | YELLOW         | 3.125 (79.38)          | .625 (15.88)           | 2.880 (73.15)          | 2.950 (74.93)          | .060 (1.52)            | 48Y                    |
| 98          | RED            | 3.225 (81.92)          | .600 (15.24)           | 2.960 (75.18)          | 3.050 (77.47)          | .060 (1.52)            | 48R                    |



**AEROSPACE STANDARD**

(R) CONNECTOR ACCESSORIES,  
ELECTRICAL, CAP, DUST,  
PLASTIC, CATEGORY 9

**AS85049™/138**  
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B**

**TABLE 2 - CONNECTOR INTERFACE COVERS**  
**SUGGESTED DASH NUMBER TO SHELL SIZE REFERENCE**

| DASH<br>NUMBER | AS50151 |          | MIL-DTL-26482<br>SERIES I & II |        | MIL-DTL-38999<br>SERIES I |        | MIL-DTL-38999<br>SERIES II |        | MIL-DTL-38999<br>SERIES III |        | AS95234 |        |
|----------------|---------|----------|--------------------------------|--------|---------------------------|--------|----------------------------|--------|-----------------------------|--------|---------|--------|
|                | PLUG    | RECPT.   | PLUG                           | RECPT. | PLUG                      | RECPT. | PLUG                       | RECPT. | PLUG                        | RECPT. | PLUG    | RECPT. |
| 08             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 10             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 11             | 8S      |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 12             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 14             | 10,10SL |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 15             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 16             |         | 8S       |                                |        |                           |        |                            |        |                             |        |         |        |
| 18             | 12,12S  |          |                                | 8      |                           |        |                            | 8      |                             |        |         |        |
| 19             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 20             |         | 10S,10SL |                                |        |                           | 9      |                            |        |                             | 9(A)   |         |        |
| 22             | 14,14S  |          |                                | 10     |                           |        |                            | 10     |                             |        |         |        |
| 24             |         | 12,12S   | 8                              |        |                           |        | 8                          |        |                             | 11(B)  |         |        |
| 26             | 16,16S  |          |                                |        |                           | 11     |                            |        |                             |        |         |        |
| 27             |         |          |                                | 12     |                           |        | 10                         | 12     |                             | 9(A)   |         |        |
| 28             |         | 14,14S   |                                |        | 9                         |        |                            |        |                             | 13(C)  |         |        |
| 29             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 30             | 18      |          | 10                             |        |                           |        |                            |        |                             |        |         |        |
| 31             |         |          |                                | 14     |                           | 13     |                            | 14     |                             | 11(B)  |         |        |
| 33             |         | 16,16S   |                                |        | 11                        |        | 12                         |        |                             | 15(D)  |         |        |
| 34             | 20      |          | 12                             |        |                           | 15     |                            |        |                             |        |         |        |
| 35             |         |          |                                | 16     |                           |        |                            | 16     |                             |        |         |        |
| 36             |         | 18       |                                |        |                           |        |                            |        |                             |        |         |        |
| 37             |         |          |                                |        | 13                        |        | 14                         |        |                             | 13(C)  |         |        |
| 38             | 22      |          | 14                             |        |                           |        |                            |        |                             | 17(E)  |         |        |
| 39             |         |          |                                |        |                           | 17     |                            |        |                             |        |         |        |
| 40             |         |          |                                | 18     |                           |        |                            | 18     |                             |        |         |        |
| 41             |         | 20       |                                |        |                           |        | 16                         |        | 15(D)                       | 19(F)  |         |        |
| 42             | 24      |          | 16                             |        | 15                        |        |                            |        |                             |        |         |        |
| 43             |         |          |                                |        |                           | 19     |                            |        |                             |        |         |        |
| 44             |         |          |                                | 20     |                           |        |                            | 20     |                             |        |         |        |
| 45             |         | 22       |                                |        |                           |        |                            |        |                             | 21(G)  |         |        |
| 46             |         |          | 18                             |        |                           |        |                            |        | 17(E)                       |        |         |        |
| 47             |         |          |                                |        | 17                        |        | 18                         |        |                             |        |         |        |
| 48             |         |          |                                |        |                           | 21     |                            |        |                             |        |         |        |
| 49             |         |          |                                | 22     |                           |        |                            | 22     |                             |        |         |        |
| 50             | 28      | 24       | 20                             |        | 19                        |        | 20                         |        | 19(F)                       | 23(H)  |         |        |
| 50A            |         |          |                                |        |                           |        |                            |        |                             |        | 28      |        |
| 51             |         |          |                                |        |                           | 23     |                            |        |                             |        |         |        |
| 52             |         |          |                                | 24     |                           |        |                            | 24     |                             |        |         |        |
| 53             |         |          |                                |        | 21                        |        | 22                         |        | 21(G)                       | 25(J)  |         |        |
| 55             |         |          | 22                             |        |                           | 25     |                            |        |                             |        |         |        |
| 57             | 32      | 28       |                                |        | 23                        |        | 24                         |        | 23(H)                       |        |         |        |
| 58             |         |          |                                |        |                           |        |                            |        |                             |        | 32      |        |
| 60             |         |          | 24                             |        |                           |        |                            |        |                             |        |         |        |
| 61             |         |          |                                |        |                           |        |                            |        |                             |        |         | 28     |
| 63             |         |          |                                |        | 25                        |        |                            |        | 25(J)                       |        |         |        |
| 65             | 36      | 32       |                                |        |                           |        |                            |        |                             |        |         |        |
| 66             |         |          |                                |        |                           |        |                            |        |                             |        |         | 32     |
| 71             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 74             | 40      | 36       |                                |        |                           |        |                            |        |                             |        |         |        |
| 75             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 76             |         |          |                                |        |                           |        |                            |        |                             |        |         | 36     |
| 77             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 81             | 44      | 40       |                                |        |                           |        |                            |        |                             |        |         |        |
| 87             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 90             | 48      | 44       |                                |        |                           |        |                            |        |                             |        |         |        |
| 96             |         |          |                                |        |                           |        |                            |        |                             |        |         |        |
| 98             |         | 48       |                                |        |                           |        |                            |        |                             |        |         |        |



### AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES,  
ELECTRICAL, CAP, DUST,  
PLASTIC, CATEGORY 9

**AS85049™/138**  
SHEET 3 OF 6

**REV.  
B**

**TABLE 2 - CONNECTOR INTERFACE COVERS**  
**SUGGESTED DASH NUMBER TO SHELL SIZE REFERENCE (CONTINUED)**

| DASH<br>NUMBER | MIL-DTL-83723 SERIES III |         | MIL-DTL-83723 SERIES III |         | AS81511 SERIES I, II, III, & IV |         | MIL-DTL-28840 |         |
|----------------|--------------------------|---------|--------------------------|---------|---------------------------------|---------|---------------|---------|
|                | PLUG                     | RECEPT. | PLUG                     | RECEPT. | PLUG                            | RECEPT. | PLUG          | RECEPT. |
| 08             |                          |         |                          |         |                                 |         |               |         |
| 10             |                          |         |                          |         |                                 |         |               |         |
| 11             |                          |         |                          |         |                                 |         |               |         |
| 12             |                          |         |                          |         |                                 |         |               |         |
| 14             |                          |         |                          |         |                                 |         |               |         |
| 15             |                          |         |                          |         |                                 |         |               |         |
| 16             |                          |         |                          |         |                                 |         |               |         |
| 18             |                          | 8       |                          |         |                                 |         |               |         |
| 19             |                          |         |                          | 8       |                                 |         |               |         |
| 20             |                          |         |                          |         |                                 | 8       |               |         |
| 22             |                          | 10      |                          |         |                                 |         |               |         |
| 24             | 8                        |         | 8                        | 10      |                                 | 10      |               | 11      |
| 26             |                          |         |                          |         |                                 |         |               |         |
| 27             |                          |         |                          |         | 8                               |         |               |         |
| 28             |                          | 12      |                          |         |                                 |         |               | 13      |
| 29             | 10                       |         | 10                       | 12      |                                 |         |               |         |
| 30             |                          | 14      |                          |         | 10                              |         |               |         |
| 31             |                          |         |                          |         |                                 |         |               |         |
| 33             |                          |         |                          | 14      |                                 | 14      | 11            |         |
| 34             |                          | 16      |                          |         |                                 |         |               | 15      |
| 35             | 12                       |         | 12                       | 16      |                                 |         |               |         |
| 36             |                          |         |                          |         |                                 |         |               | 17      |
| 37             | 14                       |         | 14                       |         |                                 | 16      | 13            |         |
| 38             |                          | 18      |                          |         |                                 |         |               |         |
| 39             |                          |         |                          | 18      |                                 |         |               |         |
| 40             |                          |         |                          |         | 14                              |         |               |         |
| 41             | 16                       |         | 16                       |         |                                 | 18      | 15            |         |
| 42             |                          |         |                          |         |                                 |         |               |         |
| 43             |                          | 20      |                          |         |                                 |         |               | 19      |
| 44             |                          |         |                          | 20      | 16                              |         |               |         |
| 45             | 18                       |         | 18                       |         |                                 |         |               |         |
| 46             |                          |         |                          |         |                                 | 20      | 17            |         |
| 47             |                          |         |                          |         |                                 |         |               |         |
| 48             |                          | 22      |                          |         |                                 |         |               |         |
| 49             |                          |         |                          | 22      | 18                              |         |               |         |
| 50             | 20                       |         | 20                       |         |                                 | 22      | 19            | 23      |
| 51             |                          | 24      |                          |         |                                 |         |               |         |
| 52             |                          |         |                          | 24      |                                 |         |               |         |
| 53             | 22                       |         | 22                       |         | 20                              | 24      |               | 25      |
| 55             |                          |         |                          |         |                                 |         | 23            |         |
| 57             | 24                       |         | 24                       |         | 22                              |         |               |         |
| 60             |                          | 28      |                          |         |                                 |         | 25            | 29      |
| 63             |                          |         |                          |         | 24                              |         |               |         |
| 65             |                          |         |                          |         |                                 |         |               | 33      |
| 71             |                          |         |                          |         |                                 |         | 29            |         |
| 74             |                          |         |                          |         |                                 |         |               |         |
| 75             |                          |         |                          |         |                                 |         | 33            |         |
| 77             |                          |         |                          |         |                                 |         |               |         |
| 81             |                          |         |                          |         |                                 |         |               |         |
| 87             |                          |         |                          |         |                                 |         |               |         |
| 90             |                          |         |                          |         |                                 |         |               |         |
| 96             |                          |         |                          |         |                                 |         |               |         |
| 98             |                          |         |                          |         |                                 |         |               |         |



**AEROSPACE STANDARD**

(R) CONNECTOR ACCESSORIES,  
ELECTRICAL, CAP, DUST,  
PLASTIC, CATEGORY 9

**AS85049™/138**  
SHEET 4 OF 6

**REV.  
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