

REV.  
B

SAE AS25036

FEDERAL SUPPLY CLASS  
5940

RATIONALE

REVISION REQUIRED TO ADD AMENDMENT AS25036B AND ADDRESS TOOL ISSUES

NOTICE

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS7928.

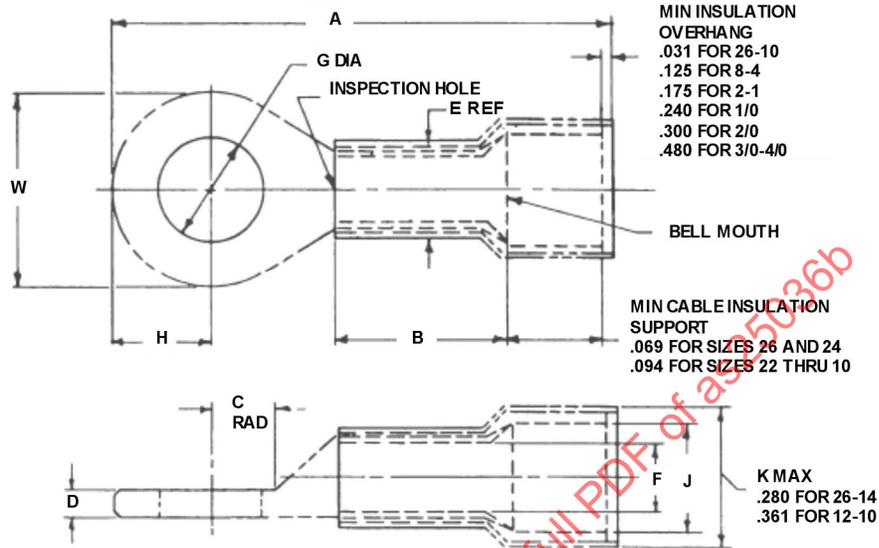


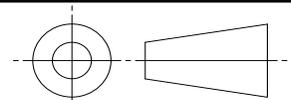
FIGURE 1 - TERMINAL CONSTRUCTION

NOTES:

1. DIMENSIONS IN INCHES.
2. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN.
3. INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE PIECE CONSTRUCTION.
4. WIRE INSERTION IS FACILITATED BY BELL MOUTH.
5. DIMENSION "C RAD" REPRESENTS THE MINIMUM WASHER CLEARANCE RADIUS.
6. DIMENSION "J" REPRESENTS THE MINIMUM OPENING THAT WILL ACCEPT THE FINISHED WIRE.
7. A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

TERMINAL, LUG, CRIMP STYLE, COPPER, INSULATED, RING TONGUE, BELL-MOUTHED, TYPE II, CLASS 1 (FOR 105 °C TOTAL CONDUCTOR TEMPERATURE)

**SAE AS25036**  
SHEET 1 OF 5

**REV. B**

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ISSUED 1998-07 REAFFIRMED 2004-03 REVISED 2010-10

TABLE 1 – DIMENSIONS

| DASH NO. | WIRE SIZE | STUD SIZE | A<br>MAX | B<br>MIN | C<br>MIN<br>RAD | D     |       | E DIA       | F DIA       | G DIA |       | J<br>MIN<br>DIA | W     |       | INSULATING SLEEVE COLOR |
|----------|-----------|-----------|----------|----------|-----------------|-------|-------|-------------|-------------|-------|-------|-----------------|-------|-------|-------------------------|
|          |           |           |          |          |                 | MAX   | MIN   |             |             | MAX   | MIN   |                 | MAX   | MIN   |                         |
| 143      | 26-24     | 2         | 0.740    | 0.126    | 0.133           | 0.028 | 0.022 | 0.215/0.190 | 0.033/0.027 | 0.098 | 0.090 | 0.084           | 0.210 | 0.133 | Yellow                  |
| 144      | 26-24     | 4         | 0.755    | 0.126    | 0.171           | 0.028 | 0.022 | 0.215/0.190 | 0.033/0.027 | 0.122 | 0.114 | 0.084           | 0.260 | 0.193 | Yellow                  |
| 145      | 26-24     | 6         | 0.855    | 0.126    | 0.202           | 0.028 | 0.022 | 0.215/0.190 | 0.033/0.027 | 0.152 | 0.142 | 0.084           | 0.260 | 0.245 | Yellow                  |
| 146      | 26-24     | 8         | 0.855    | 0.126    | 0.202           | 0.028 | 0.022 | 0.215/0.190 | 0.033/0.027 | 0.178 | 0.168 | 0.084           | 0.330 | 0.245 | Yellow                  |
| 147      | 26-24     | 10        | 0.865    | 0.126    | 0.227           | 0.028 | 0.022 | 0.215/0.190 | 0.033/0.027 | 0.203 | 0.193 | 0.084           | 0.330 | 0.245 | Yellow                  |
| 159      | 22-18     | 2         | 0.755    | 0.156    | 0.115           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.098 | 0.090 | 0.120           | 0.230 | 0.198 | Red                     |
| 148      | 22-18     | 4         | 0.755    | 0.156    | 0.125           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.122 | 0.114 | 0.120           | 0.230 | 0.210 | Red                     |
| 101      | 22-18     | 6         | 0.790    | 0.156    | 0.125           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.152 | 0.142 | 0.120           | 0.230 | 0.210 | Red                     |
| 102      | 22-18     | 6         | 0.865    | 0.156    | 0.202           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.152 | 0.142 | 0.120           | 0.260 | 0.245 | Red                     |
| 149      | 22-18     | 8         | 0.930    | 0.156    | 0.202           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.178 | 0.168 | 0.120           | 0.320 | 0.305 | Red                     |
| 103      | 22-18     | 10        | 1.090    | 0.156    | 0.234           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.203 | 0.193 | 0.120           | 0.320 | 0.305 | Red                     |
| 150      | 22-18     | 1/4       | 1.090    | 0.156    | 0.265           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.275 | 0.260 | 0.120           | 0.473 | 0.450 | Red                     |
| 104      | 22-18     | 5/16      | 1.090    | 0.156    | 0.296           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.338 | 0.323 | 0.120           | 0.473 | 0.450 | Red                     |
| 105      | 22-18     | 3/8       | 1.320    | 0.156    | 0.328           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.400 | 0.385 | 0.120           | 0.540 | 0.520 | Red                     |
| 151      | 22-18     | 1/2       | 1.320    | 0.156    | 0.453           | 0.035 | 0.027 | 0.215/0.190 | 0.073/0.052 | 0.525 | 0.510 | 0.120           | 0.720 | 0.705 | Red                     |
| 152      | 16-14     | 4         | 0.774    | 0.156    | 0.125           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.122 | 0.114 | 0.153           | 0.260 | 0.240 | Blue                    |
| 106      | 16-14     | 6         | 0.815    | 0.156    | 0.125           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.152 | 0.142 | 0.153           | 0.260 | 0.240 | Blue                    |
| 107      | 16-14     | 6         | 0.910    | 0.156    | 0.202           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.152 | 0.142 | 0.153           | 0.317 | 0.302 | Blue                    |
| 153      | 16-14     | 8         | 0.955    | 0.156    | 0.202           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.178 | 0.168 | 0.153           | 0.317 | 0.302 | Blue                    |
| 108      | 16-14     | 10        | 0.955    | 0.156    | 0.234           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.203 | 0.193 | 0.153           | 0.317 | 0.302 | Blue                    |

TABLE 1 – DIMENSIONS (CONT'D)

| DASH NO. | WIRE SIZE | STUD SIZE | A<br>MAX | B<br>MIN | C<br>MIN<br>RAD | D     |       | E DIA       | F DIA       | G DIA |       | J<br>MIN<br>DIA | W     |       | INSULATING SLEEVE COLOR |
|----------|-----------|-----------|----------|----------|-----------------|-------|-------|-------------|-------------|-------|-------|-----------------|-------|-------|-------------------------|
|          |           |           |          |          |                 | MAX   | MIN   |             |             | MAX   | MIN   |                 | MAX   | MIN   |                         |
| 154      | 16-14     | 1/4       | 1.085    | 0.156    | 0.265           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.275 | 0.260 | 0.153           | 0.473 | 0.450 | Blue                    |
| 109      | 16-14     | 5/16      | 1.085    | 0.156    | 0.296           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.338 | 0.323 | 0.153           | 0.473 | 0.450 | Blue                    |
| 110      | 16-14     | 3/8       | 1.225    | 0.156    | 0.328           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.400 | 0.385 | 0.153           | 0.540 | 0.520 | Blue                    |
| 155      | 16-14     | 1/2       | 1.320    | 0.156    | 0.453           | 0.035 | 0.029 | 0.240/0.210 | 0.095/0.081 | 0.525 | 0.510 | 0.153           | 0.720 | 0.705 | Blue                    |
| 111      | 12-10     | 6         | 1.120    | 0.234    | 0.202           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.152 | 0.142 | 0.210           | 0.380 | 0.365 | Yellow                  |
| 156      | 12-10     | 8         | 1.120    | 0.234    | 0.202           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.178 | 0.168 | 0.210           | 0.380 | 0.365 | Yellow                  |
| 112      | 12-10     | 10        | 1.120    | 0.234    | 0.234           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.203 | 0.193 | 0.210           | 0.380 | 0.365 | Yellow                  |
| 157      | 12-10     | 1/4       | 1.322    | 0.234    | 0.265           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.275 | 0.260 | 0.210           | 0.536 | 0.516 | Yellow                  |
| 113      | 12-10     | 5/16      | 1.322    | 0.234    | 0.296           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.338 | 0.323 | 0.210           | 0.536 | 0.516 | Yellow                  |
| 114      | 12-10     | 3/8       | 1.414    | 0.234    | 0.328           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.400 | 0.385 | 0.210           | 0.598 | 0.573 | Yellow                  |
| 158      | 12-10     | 1/2       | 1.414    | 0.234    | 0.453           | 0.043 | 0.037 | 0.300/0.275 | 0.139/0.129 | 0.525 | 0.510 | 0.210           | 0.720 | 0.705 | Yellow                  |
| 115      | 8         | 10        | 1.402    | 0.315    | 0.234           | 0.084 | 0.038 | 0.350/0.300 | 0.186/0.176 | 0.203 | 0.193 | 0.257           | 0.429 | 0.386 | Red                     |
| 116      | 8         | 1/4       | 1.466    | 0.315    | 0.265           | 0.084 | 0.038 | 0.350/0.300 | 0.186/0.176 | 0.275 | 0.260 | 0.257           | 0.478 | 0.435 | Red                     |
| 117      | 8         | 5/16      | 1.544    | 0.315    | 0.296           | 0.084 | 0.038 | 0.350/0.300 | 0.186/0.176 | 0.338 | 0.323 | 0.257           | 0.590 | 0.547 | Red                     |
| 118      | 8         | 3/8       | 1.544    | 0.315    | 0.328           | 0.084 | 0.038 | 0.350/0.300 | 0.186/0.176 | 0.400 | 0.385 | 0.257           | 0.590 | 0.547 | Red                     |
| 119      | 6         | 10        | 1.599    | 0.375    | 0.238           | 0.084 | 0.043 | 0.410/0.360 | 0.232/0.222 | 0.203 | 0.193 | 0.310           | 0.503 | 0.460 | Blue                    |
| 120      | 6         | 1/4       | 1.599    | 0.375    | 0.265           | 0.084 | 0.043 | 0.410/0.360 | 0.232/0.222 | 0.275 | 0.260 | 0.310           | 0.503 | 0.460 | Blue                    |
| 121      | 6         | 5/16      | 1.762    | 0.375    | 0.305           | 0.084 | 0.043 | 0.410/0.360 | 0.232/0.222 | 0.338 | 0.323 | 0.310           | 0.623 | 0.580 | Blue                    |
| 122      | 6         | 3/8       | 1.762    | 0.375    | 0.328           | 0.084 | 0.043 | 0.410/0.360 | 0.232/0.222 | 0.400 | 0.385 | 0.310           | 0.623 | 0.580 | Blue                    |
| 123      | 4         | 1/4       | 1.812    | 0.437    | 0.276           | 0.096 | 0.047 | 0.500/0.425 | 0.290/0.280 | 0.275 | 0.260 | 0.370           | 0.570 | 0.480 | Yellow                  |

TABLE 1 – DIMENSIONS (CONT'D)

| Dash No. | Wire Size | Stud Size |     | A Max | B Min | C Min Rad | D     |       | F DIA       | G Dia |       | J Min Dia | W     |       | Insulating Sleeve Color |
|----------|-----------|-----------|-----|-------|-------|-----------|-------|-------|-------------|-------|-------|-----------|-------|-------|-------------------------|
|          |           | 5/16      | 3/8 |       |       |           | Max   | Min   |             | Max   | Min   |           | Max   | Min   |                         |
| 124      | 4         | 5/16      | 3/8 | 1.879 | 0.437 | 0.308     | 0.096 | 0.047 | 0.290/0.280 | 0.338 | 0.323 | 0.370     | 0.648 | 0.605 | Yellow                  |
| 125      | 4         | 3/8       | 3/8 | 1.879 | 0.437 | 0.328     | 0.096 | 0.047 | 0.290/0.280 | 0.400 | 0.385 | 0.370     | 0.648 | 0.605 | Yellow                  |
| 126      | 2         | 1/4       | 2/8 | 2.069 | 0.505 | 0.343     | 0.109 | 0.054 | 0.365/0.355 | 0.275 | 0.260 | 0.453     | 0.711 | 0.668 | Red                     |
| 127      | 2         | 3/8       | 3/8 | 2.069 | 0.505 | 0.343     | 0.109 | 0.054 | 0.365/0.355 | 0.400 | 0.385 | 0.453     | 0.711 | 0.668 | Red                     |
| 128      | 2         | 1/2       | 5/8 | 2.269 | 0.505 | 0.453     | 0.109 | 0.054 | 0.365/0.355 | 0.525 | 0.510 | 0.453     | 0.804 | 0.740 | Red                     |
| 129      | 1         | 1/4       | 2/8 | 2.150 | 0.565 | 0.383     | 0.125 | 0.070 | 0.398/0.388 | 0.275 | 0.260 | 0.500     | 0.783 | 0.740 | Clear                   |
| 130      | 1         | 3/8       | 3/8 | 2.150 | 0.565 | 0.383     | 0.125 | 0.070 | 0.398/0.388 | 0.400 | 0.385 | 0.500     | 0.783 | 0.740 | Clear                   |
| 131      | 1         | 1/2       | 5/8 | 2.370 | 0.565 | 0.453     | 0.125 | 0.070 | 0.398/0.388 | 0.525 | 0.510 | 0.500     | 0.887 | 0.740 | Clear                   |
| 132      | 0         | 1/4       | 2/8 | 2.401 | 0.630 | 0.418     | 0.125 | 0.070 | 0.398/0.388 | 0.275 | 0.260 | 0.550     | 0.853 | 0.810 | Blue                    |
| 133      | 0         | 3/8       | 3/8 | 2.401 | 0.630 | 0.418     | 0.125 | 0.070 | 0.458/0.438 | 0.400 | 0.385 | 0.550     | 0.853 | 0.810 | Blue                    |
| 134      | 0         | 1/2       | 5/8 | 2.525 | 0.630 | 0.453     | 0.125 | 0.070 | 0.458/0.438 | 0.525 | 0.510 | 0.550     | 0.903 | 0.860 | Blue                    |
| 135      | 00        | 5/16      | 3/8 | 2.750 | 0.700 | 0.473     | 0.129 | 0.075 | 0.520/0.500 | 0.338 | 0.323 | 0.610     | 0.956 | 0.913 | Yellow                  |
| 136      | 00        | 3/8       | 3/8 | 2.750 | 0.700 | 0.473     | 0.129 | 0.075 | 0.520/0.500 | 0.400 | 0.385 | 0.610     | 0.956 | 0.913 | Yellow                  |
| 137      | 00        | 1/2       | 5/8 | 2.750 | 0.700 | 0.473     | 0.129 | 0.075 | 0.520/0.500 | 0.525 | 0.510 | 0.610     | 0.956 | 0.913 | Yellow                  |
| 138      | 000       | 3/8       | 3/8 | 3.000 | 0.718 | 0.513     | 0.140 | 0.085 | 0.577/0.557 | 0.400 | 0.385 | 0.680     | 1.053 | 1.010 | Red                     |
| 139      | 000       | 1/2       | 5/8 | 3.000 | 0.718 | 0.513     | 0.140 | 0.085 | 0.577/0.557 | 0.525 | 0.510 | 0.680     | 1.053 | 1.010 | Red                     |
| 140      | 0000      | 3/8       | 3/8 | 3.300 | 0.734 | 0.560     | 0.150 | 0.095 | 0.645/0.622 | 0.400 | 0.385 | 0.750     | 1.148 | 1.095 | Blue                    |
| 141      | 0000      | 1/2       | 5/8 | 3.300 | 0.734 | 0.560     | 0.150 | 0.095 | 0.645/0.622 | 0.525 | 0.510 | 0.750     | 1.148 | 1.095 | Blue                    |