

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/23 WITH THIS DOCUMENT.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81511.

AS81511/23

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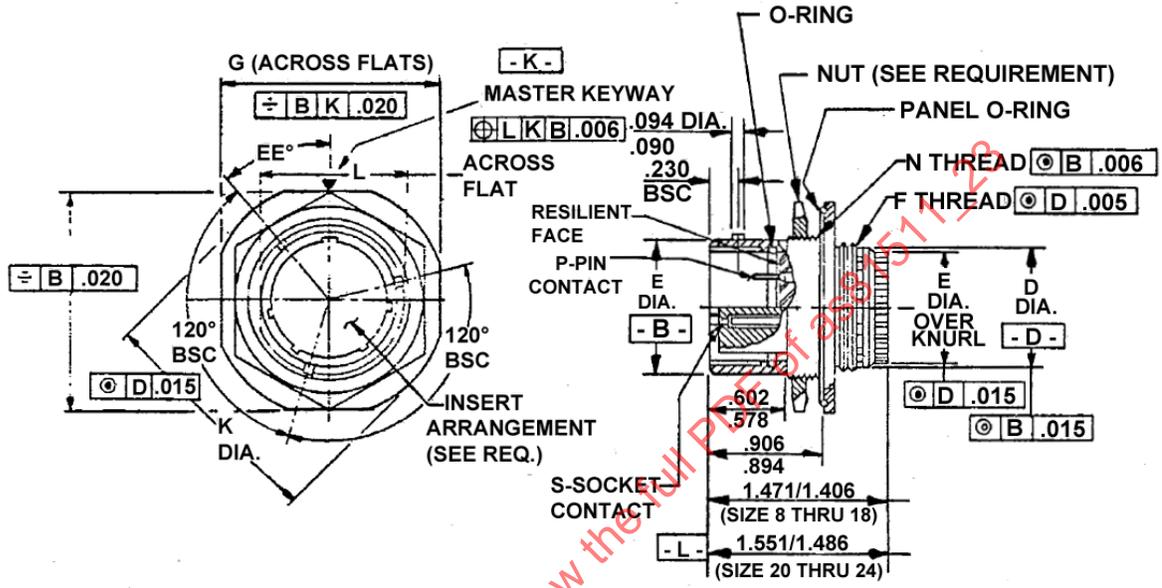
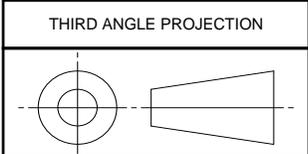


FIGURE 1 - CONNECTOR RECEPTACLE, JAM NUT MOUNT

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| CUSTODIAN: AE-8/AE-8C1 | PROCUREMENT SPECIFICATION: AS81511 | |
| | <p>AEROSPACE STANDARD</p> <p>CONNECTOR, RECEPTACLE, JAM NUT MOUNT, ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING, CRIMP TYPE CONTACTS, CLASS A. F. AND E (SERIES 1)</p> | <p>AS81511/23</p> <p>SHEET 1 OF 4</p> |

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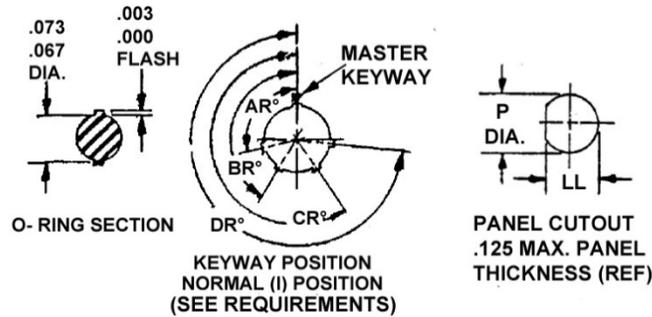


FIGURE 1A – CONNECTOR RECEPTACLE, JAM NUT MOUNT

TABLE 1 – FIGURE 1 METRIC EQUIVALENTS

| INCHES | MILLIMETERS | INCHES | MILLIMETERS | INCHES | MILLIMETERS | INCHES | MILLIMETERS |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| .003 | 0.08 | .067 | 1.70 | .578 | 14.68 | | 37.36 |
| .005 | 0.13 | .073 | 1.85 | .602 | 15.29 | 1.531 | 38.89 |
| .006 | 0.15 | .090 | 2.29 | .894 | 22.71 | | |
| .010 | 0.25 | .094 | 2.39 | .906 | 23.01 | | |
| .015 | 0.38 | .125 | 3.18 | 1.406 | 35.71 | | |
| .020 | 0.51 | .230 | 5.84 | 1.436 | 36.47 | | |

TABLE 2 – FIGURE 1 DIMENSIONS/CONFIGURATION

| SHELL SIZE | B Ø | D Ø | E Ø | F THREAD | G ACROSS FLATS | K Ø | L ACROSS FLAT | N THREAD | P Ø | LL |
|------------|------------------|------------------|------------------|---------------|------------------|------------------|------------------|---------------|------------------|------------------|
| 8 | .553 (14.05) | .430 (10.92) | .422 (10.72) | 1/2-28UNEF-2A | .989 (25.12) | 1.072 (27.23) | .598 (15.19) | 5/8-20UN-2A | .640 (16.26) | .610 (15.49) |
| | .547 (13.89) | .424 (10.77) | .407 (10.34) | | .969 (24.61) | 1.052 (26.72) | .590 (14.99) | | .630 (16.00) | .600 (15.24) |
| | .678 (17.22) | .555 (14.10) | .548 (13.92) | | 1.114 (28.30) | 1.197 (30.40) | .723 (18.36) | | .765 (19.43) | .735 (18.67) |
| 10 | .672 (17.07) | .549 (13.94) | .533 (13.54) | 5/8-28UN-2A | 1.094 (27.79) | 1.177 (29.90) | .715 (18.16) | 3/4-20UNEF-2A | .755 (19.18) | .725 (18.42) |
| | .928 (23.57) | .805 (20.45) | .798 (20.27) | | 1.401 (35.59) | 1.510 (38.35) | .973 (24.71) | | 1.015 (25.78) | .985 (25.02) |
| | .922 (23.42) | .799 (20.29) | .783 (19.89) | | 1.381 (35.08) | 1.490 (37.85) | .965 (24.51) | | 1.005 (25.53) | .975 (24.77) |
| 14 | 1.054 (26.77) | .930 (23.63) | .924 (23.47) | 1-28UN-2A | 1.526 (38.76) | 1.635 (41.53) | 1.098 (27.89) | 1 1/8-20UN-2A | 1.140 (28.96) | 1.110 (28.19) |
| | 1.048 (26.62) | .924 (23.47) | .909 (23.09) | | 1.506 (38.25) | 1.615 (41.02) | 1.090 (27.69) | | 1.130 (28.70) | 1.100 (27.94) |
| | 1.178 (29.92) | 1.055 (26.80) | 1.048 (26.62) | | 1.651 (41.94) | 1.745 (44.32) | 1.222 (31.04) | | 1.265 (32.13) | 1.235 (31.37) |
| 16 | 1.172 (29.77) | 1.049 (26.64) | 1.033 (26.24) | 1 1/8-28UN-2A | 1.631 (41.43) | 1.725 (43.82) | 1.214 (30.84) | 1 1/4-20UN-2A | 1.255 (31.88) | 1.225 (31.12) |
| | 1.303 (33.10) | 1.180 (29.97) | 1.173 (29.79) | | 1.776 (45.11) | 1.870 (47.50) | 1.347 (34.21) | | 1.390 (35.31) | 1.360 (34.54) |
| | 1.297 (32.94) | 1.174 (29.82) | 1.158 (29.41) | | 1.756 (44.60) | 1.850 (46.99) | 1.339 (34.01) | | 1.380 (35.05) | 1.350 (34.29) |
| 18 | 1.428 (36.27) | 1.305 (33.15) | 1.298 (32.97) | 1 3/8-28UN-2A | 1.901 (48.29) | 1.995 (50.67) | 1.472 (37.39) | 1 1/2-20UN-2A | 1.515 (38.48) | 1.485 (37.72) |
| | 1.422 (36.12) | 1.299 (32.99) | 1.283 (32.59) | | 1.881 (47.78) | 1.975 (50.17) | 1.464 (37.19) | | 1.505 (38.23) | 1.475 (37.47) |
| | 1.553 (39.45) | 1.430 (36.32) | 1.423 (36.14) | | 2.026 (51.46) | 2.120 (53.85) | 1.597 (40.56) | | 1.640 (41.66) | 1.610 (40.89) |
| 20 | 1.547 (39.29) | 1.424 (36.17) | 1.408 (35.76) | 1 1/2-28UN-2A | 2.006 (50.95) | 2.100 (53.34) | 1.589 (40.36) | 1 5/8-20UN-2A | 1.630 (41.40) | 1.600 (40.64) |

TABLE 2A – FIGURE 1 DIMENSIONS/CONFIGURATION (CONTINUED)

| SHELL SIZE | AR° BSC | BR° BSC | CR° BSC | DR° BSC | PANEL O-RING | EE° BSC POSITION | | | | | |
|------------|---------|---------|---------|---------|--------------|------------------|------|------|------|------|------------|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | | | 8 | 105° | 140° | 215° | 265° | AS3582-018 |
| 10 | 95° | 141° | 208° | 236° | AS3582-020 | 53 | 87 | 51 | 77 | 87 | 87 |
| 14 | 95° | 141° | 208° | 236° | AS3582-024 | 53 | 87 | 51 | 77 | 87 | 87 |
| 16 | 80° | 142° | 196° | 293° | AS3582-026 | 98 | 98 | 98 | 98 | 98 | 98 |
| 18 | 80° | 142° | 196° | 293° | AS3582-028 | 98 | 98 | 98 | 98 | 98 | 98 |
| 20 | 80° | 142° | 196° | 293° | AS3582-029 | 98 | 98 | 98 | 98 | 98 | 98 |
| 22 | 80° | 142° | 196° | 293° | AS3582-030 | 98 | 98 | 98 | 98 | 98 | 98 |
| 24 | 80° | 142° | 196° | 293° | AS3582-031 | 98 | 98 | 98 | 98 | 98 | 98 |

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81511.

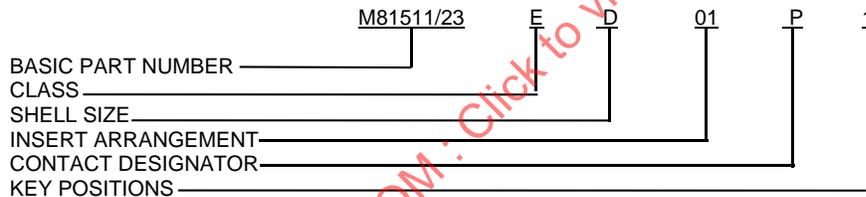
1. DESIGN:

CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.016 INCHES. NORMAL MATING KEYWAY POSITION SHOWN IN FIGURE 1A. FOR ALTERNATE KEYWAY POSITIONS, SEE AS81511, FIGURE 8. SLOTTED NUT SHALL CONFORM TO AS81511/20.

2. FOR INSERT ARRANGEMENTS, SEE AS81511, APPENDIX A.

3. PART NUMBER:

THE CONNECTOR PART NUMBER WILL CONSIST OF THE LETTER M, THE BASIC SPECIFICATION NUMBER/APPLICABLE SPECIFICATION SHEET, AND THE APPLICABLE ALPHA-NUMERIC CHARACTERS ON THE CONNECTOR SHELL. THE PART NUMBER SHALL BE FORMULATED AS IN THE FOLLOWING EXAMPLE: M81511/23ED01P1.



4. SHELL POLARIZATION:

1 THROUGH 6 KEY POSITION.

5. INSERTION AND REMOVAL TOOLS:

AS81969/2 INSERTION TOOL, AS81969/3 REMOVAL TOOL.

6. MATING CONNECTOR:

THIS RECEPTACLE MATES DIRECTLY WITH AN AS81511/26 PLUG.