

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/3 WITH THIS DOCUMENT.

NOTICE

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

AS81511/3

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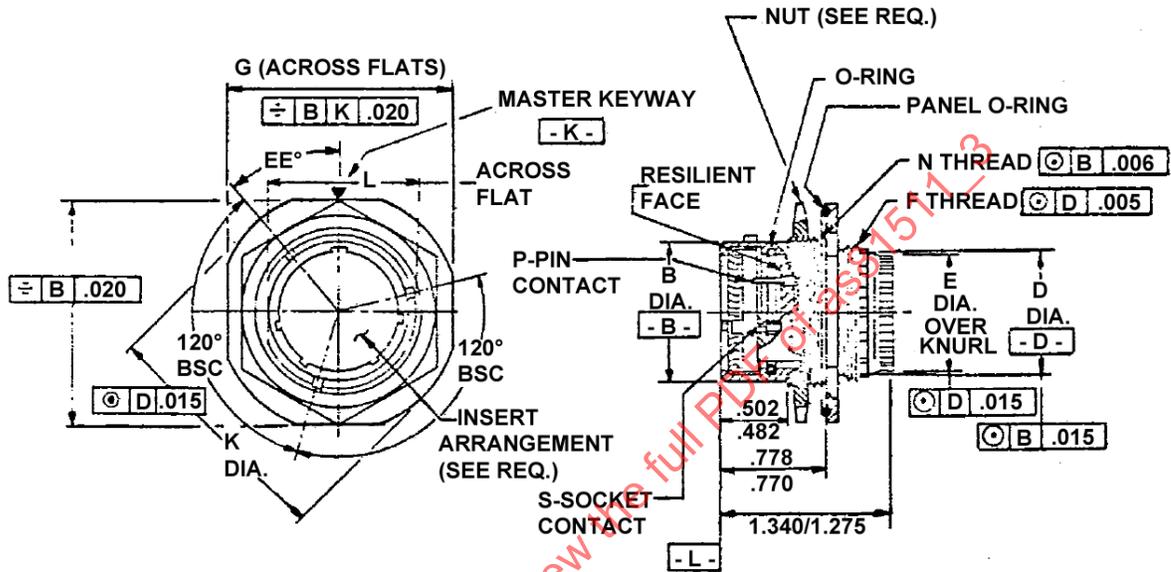
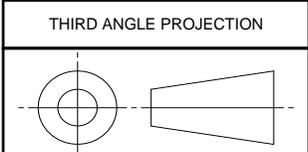


FIGURE 1 - CONNECTOR RECEPTACLE, JAM NUT MOUNT

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81511



AEROSPACE STANDARD

CONNECTOR, RECEPTACLE, JAM NUT MOUNT, ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING, CRIMP TYPE CONTACTS; AND ACCESSORIES (CLASS A, F, AND E - SERIES 2)

AS81511/3
SHEET 1 OF 4

ISSUED 2014-10

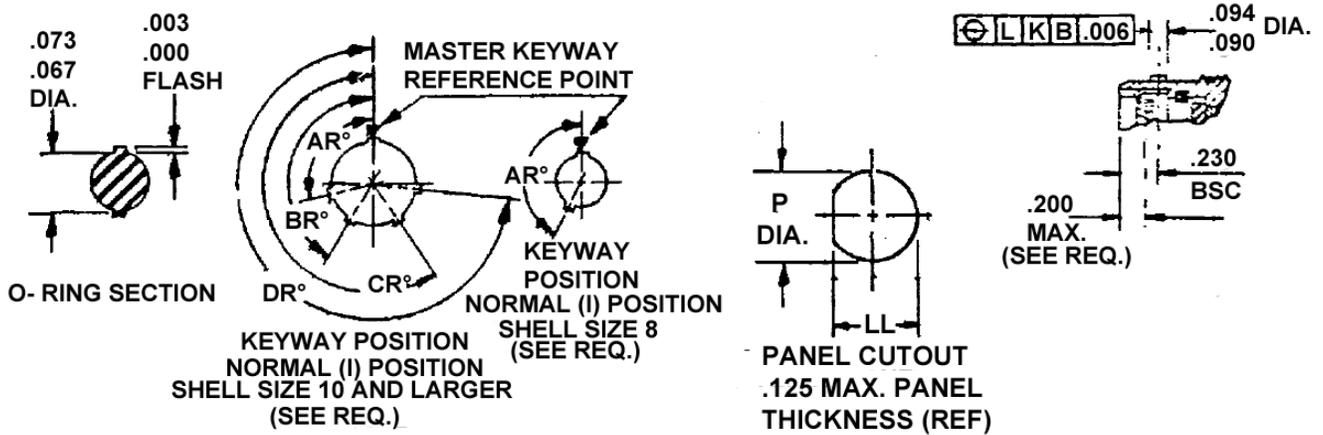


FIGURE 1A - CONNECTOR RECEPTACLE

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.003	0.08	.067	1.70	.200	5.08	.778	19.76
.005	0.13	.073	1.85	.230	5.84	1.275	32.39
.006	0.15	.090	2.29	.482	12.24	1.340	34.04
.015	0.38	.094	2.39	.502	12.75	1.400	35.56
.020	0.51	.125	3.18	.770	19.56		

TABLE 2 - FIGURE 1 DIMENSIONS

SHELL SIZE	B Ø	D Ø	E Ø	F THREAD	G ACROSS FLATS	K Ø	L ACROSS FLAT	LL	N THREAD	P Ø
8	.553 (14.05)	.430 (10.92)	.422 (10.72)	1/2-28UNEF-2A	.989 (25.12)	1.072 (27.23)	.598 (15.19)	.610 (15.49)	5/8-20UN-2A	.640 (16.26)
	.547 (13.89)	.424 (10.77)	.407 (10.34)		.969 (24.61)	1.052 (26.72)	.590 (14.99)	.600 (15.24)		.630 (16.00)
	.678 (17.22)	.555 (14.10)	.548 (13.92)		1.114 (28.30)	1.197 (30.40)	.723 (18.36)	.735 (18.67)		.765 (19.43)
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)	.725 (18.42)	3/4-20UNEF-2A	.755 (19.18)
	.928 (23.57)	.805 (20.45)	.798 (20.27)		1.401 (35.59)	1.510 (38.35)	.973 (24.71)	.985 (25.02)		1.015 (25.78)
	.922 (23.42)	.799 (20.29)	.783 (19.89)		1.381 (35.08)	1.490 (37.85)	.965 (24.51)	.975 (24.77)		1.005 (25.53)
14	1.054 (26.77)	.930 (23.63)	.924 (23.47)	7/8-28UN-2A	1.526 (38.76)	1.635 (41.53)	1.098 (27.89)	1.110 (28.19)	1-20UNEF-2A	1.140 (28.96)
	1.048 (26.62)	.924 (23.47)	.909 (23.09)		1.506 (38.25)	1.615 (41.02)	1.090 (27.69)	1.100 (27.94)		1.130 (28.70)
	1.178 (29.92)	1.055 (26.80)	1.048 (26.62)		1.651 (41.94)	1.745 (44.32)	1.222 (31.04)	1.235 (31.37)		1.265 (32.13)
16	1.172 (29.77)	1.049 (26.64)	1.033 (26.24)	1-28UN-2A	1.631 (41.43)	1.725 (43.82)	1.214 (30.84)	1.225 (31.12)	1 1/8-20UN-2A	1.255 (31.88)
	1.172 (29.77)	1.049 (26.64)	1.033 (26.24)		1.631 (41.43)	1.725 (43.82)	1.214 (30.84)	1.225 (31.12)		1.255 (31.88)
	1.172 (29.77)	1.049 (26.64)	1.033 (26.24)		1.631 (41.43)	1.725 (43.82)	1.214 (30.84)	1.225 (31.12)		1.255 (31.88)

TABLE 2A - FIGURE 1 DIMENSIONS (CONTINUED)

SHELL SIZE	AR° BSC	BR° BSC	CR° BSC	DR° BSC	PANEL O-RING	EE° BSC POSITION					
						1	2	3	4	5	6
						8	128°	--	--	--	AS3582-018
10	105°	140°	215°	265°	AS3582-020	60	46	46	60	89	60
14	105°	140°	215°	265°	AS3582-024	60	46	46	60	89	60
16	105°	140°	215°	265°	AS3582-026	50	50	50	50	50	50
18	105°	140°	215°	265°	AS3582-028	50	50	50	50	50	50

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

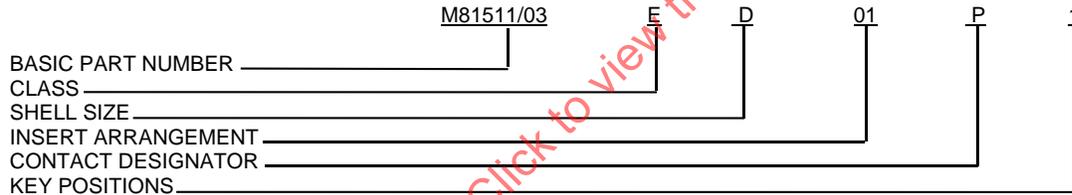
1. DESIGN:

CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2. DIMENSIONS ARE IN INCHES AND ARE AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.016 INCHES. THE NORMAL MATING KEYWAY POSITION IS SHOWN IN FIGURES 1 AND 1A. FOR ALTERNATE KEYWAY POSITIONS, SEE AS81511 FIGURE 4. THE .200 MAX. DIMENSION IN FIGURE 1A IS THE DISTANCE FROM THE FRONT OF THE SHELL TO THE POINT AT WHICH A GAGE PIN, HAVING THE SAME BASIC DIAMETER AS THE PLUG SHELL, ENGAGES THE SPRING MEMBER. CONNECTORS ARE SERIES 2, CLASSES ARE A, F, AND E. CONTACTS ARE CRIMP TYPE REMOVABLE, STYLE P AND S.

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: M81511/03ED01P1.



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 AS81511/6 PLUG.

7. CONNECTOR WEIGHT:

THE CONNECTOR REFERENCE WEIGHTS ARE LISTED IN TABLE 3.

8. SLOTTED NUT:

THE SLOTTED NUT SHALL CONFORM TO AS81511/20.