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AS81511/53

FEDERAL SUPPLY CLASS
5935

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/53 WITH THIS DOCUMENT.

NOTICE

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

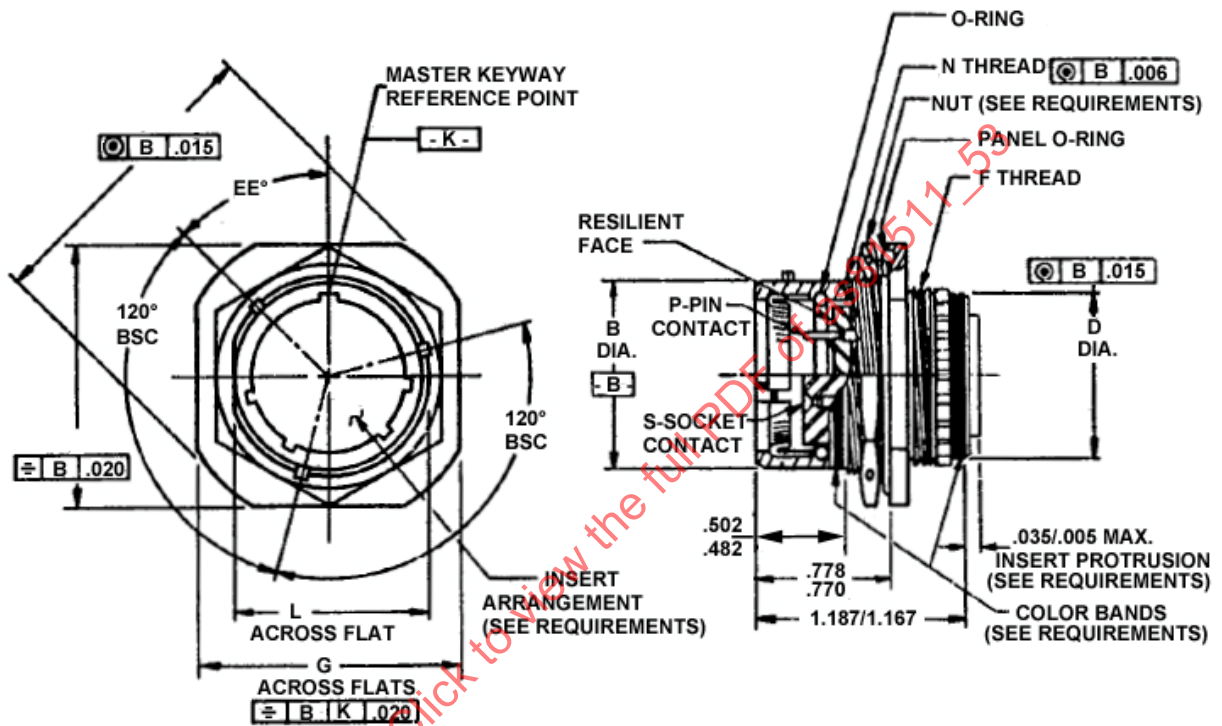
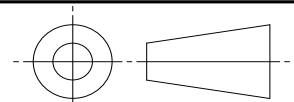


FIGURE 1—CONNECTOR RECEPTACLE, JAM NUT MOUNT (SERIES 4)

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81511



AEROSPACE STANDARD

CONNECTOR, RECEPTACLE, JAM NUT MOUNT, ELECTRICAL,
CIRCULAR, HIGH DENSITY, QUICK DISCONNECT,
ENVIRONMENT RESISTING, INDIVIDUAL RELEASE, CRIMP
TYPE CONTACTS (CLASS A, F, AND W - SERIES 4)

AS81511/53
SHEET 1 OF 4

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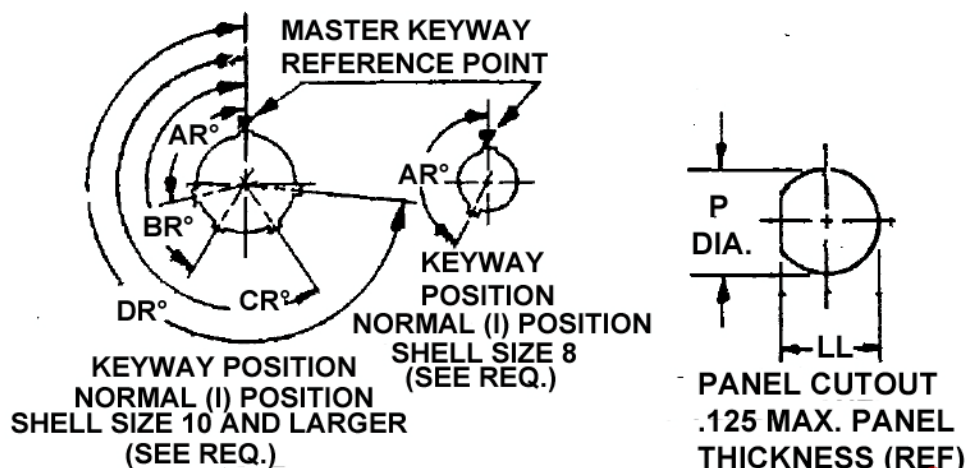


FIGURE 1 - CONNECTOR RECEPTACLE, JAM NUT MOUNT (SERIES 4) (CONTINUED)

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.003	0.08	.035	0.89	.100	2.54	.502	12.75
.005	0.13	.067	1.70	.125	3.18	.770	19.56
.006	0.15	.073	1.85	.200	5.08	.778	19.76
.015	0.38	.090	2.29	.230	5.84	1.167	29.64
.020	0.51	.094	2.39	.482	12.24	1.187	30.15

TABLE 2 - FIGURE 1 DIMENSIONS

SHELL SIZE	B Ø	D Ø	F THREAD	G ACROSS FLATS	K Ø	L ACROSS FLAT	N THREAD	P Ø	LL
8	.553 (14.05) .547 (13.89)	.430 (10.92) .424 (10.77)	1/2-28UNEF-2A	.989 (25.12) .969 (24.61)	1.072 (27.23) 1.052 (26.72)	.598 (15.19) .590 (14.99)	5/8-20UN-2A	.640 (16.26) .630 (16.00)	.610 (15.49) .600 (15.24)
10	.678 (17.22) .672 (17.07)	.555 (14.10) .549 (13.94)	5/8-28UN-2A	1.114 (28.30) 1.094 (27.79)	1.197 (30.40) 1.177 (29.90)	.723 (18.36) .715 (18.16)	3/4-20UNEF-2A	.765 (19.43) .755 (19.18)	.735 (18.67) .725 (18.42)
14	.928 (23.57) .922 (23.42)	.805 (20.45) .799 (20.29)	7/8-28UN-2A	1.401 (35.59) 1.381 (35.08)	1.510 (38.35) 1.490 (37.85)	.973 (24.71) .965 (24.51)	1-20UNEF-2A	1.015 (25.78) 1.005 (25.53)	.985 (25.02) .975 (24.77)
16	1.054 (26.77) 1.048 (26.62)	.930 (23.63) .924 (23.47)	1-28UN-2A	1.526 (38.76) 1.506 (38.25)	1.635 (41.53) 1.615 (41.02)	1.098 (27.89) 1.090 (27.69)	1 1/8-20UN-2A	1.140 (28.96) 1.130 (28.70)	1.110 (28.19) 1.100 (27.94)
18	1.178 (29.92) 1.172 (29.77)	1.055 (26.80) 1.049 (26.64)	1 1/8-28UN-2A	1.651 (41.94) 1.631 (41.43)	1.745 (44.32) 1.725 (43.82)	1.222 (31.04) 1.214 (30.84)	1 1/4-20UN-2A	1.265 (32.13) 1.255 (31.88)	1.235 (31.37) 1.225 (31.12)



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TABLE 2A - FIGURE 1 DIMENSIONS

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	40	40	40	40	40	40
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 DOCUMENT AND THE LATEST ISSUE OF AS81511.

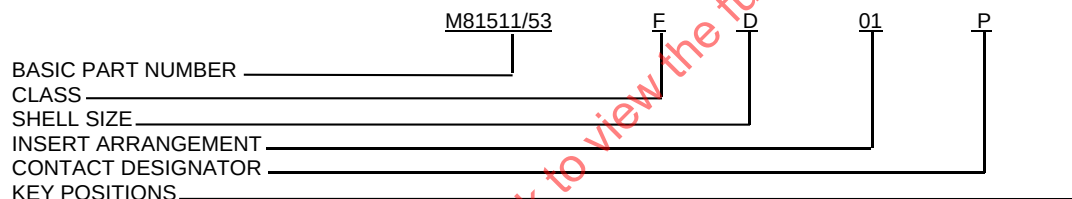
1. DESIGN:

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 MM. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ± 0.016 INCHES. NORMAL MATING KEYWAY POSITION SHOWN IN FIGURE 1. FOR ALTERNATE KEYWAY POSITIONS, SEE AS81511, FIGURE 4. COLOR BANDS SHALL BE BLUE IN COLOR, .100 MAX. WIDTH AND SHALL BE VISIBLE WHEN MOUNTED. INSERT PROTRUSION FOR INSERTS CONTAINING SIZE 12 CONTACTS SHALL BE .070/.020. 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: M81511/53FD01P1.



4. SHELL POLARIZATION:

1 THROUGH 6 KEY POSITION.

5. INSERTION AND REMOVAL TOOLS:

AS81969/16 INSERTION/REMOVAL TOOL.

6. MATING CONNECTOR:

THIS RECEPTACLE MATES DIRECTLY WITH AS81511/6 AND /56 PLUGS.

APPLICATION NOTES:

- AS81511 CONNECTORS AND ACCESSORIES ARE NOT RECOMMENDED FOR NEW DESIGN.
- FOR SHELL SIZES 20, 22, AND 24, USE AS81511/23 OR /49.