

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/55 WITH THIS DOCUMENT.

NOTICE

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

AS81511/55

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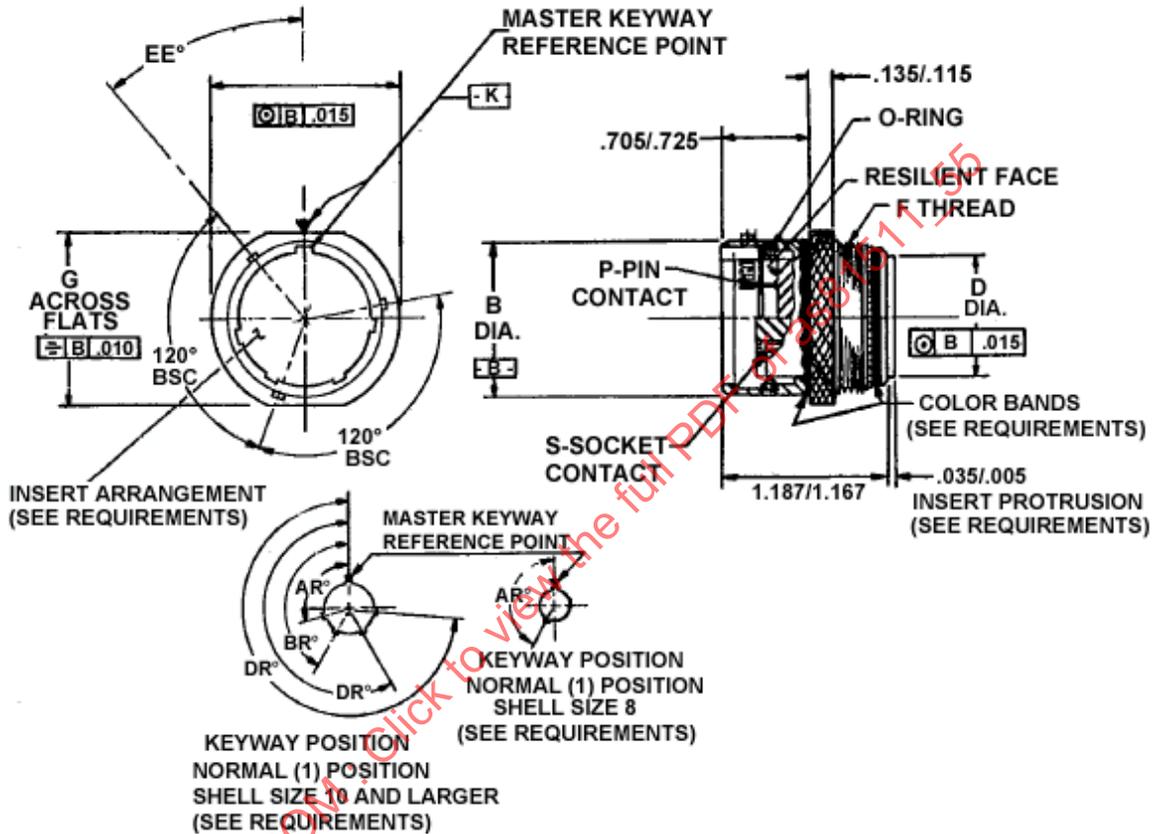
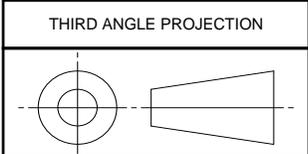


FIGURE 1 - CONNECTOR RECEPTACLE, CABLE CONNECTING (SERIES 4)

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81511



AEROSPACE STANDARD

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

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TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.005	0.13	.015	0.38	.555	14.10	1.167	29.64
.010	0.25	.035	0.89	.575	14.61	1.187	30.15

TABLE 2 - FIGURE 1 DIMENSIONS

SHELL SIZE	B Ø	D Ø	F THREAD	G ACROSS FLATS	K Ø	AR° BSC	BR° BSC	CR° BSC	DR° BSC	EE° BSC POSITION					
										1	2	3	4	5	6
										8	.553 (14.05) .547 (13.89)	.430 (10.92) .424 (10.77)	1/2-28UNEF-2A	.565 (14.35) .553 (14.05)	.780 (19.81) .760 (19.30)
10	.678 (17.22) .672 (17.07)	.555 (14.10) .549 (13.94)	5/8-28UN-2A	.690 (17.53) .678 (17.22)	.900 (22.86) .880 (22.35)	105°	140°	215°	265°	60	46	46	60	89	60
14	.928 (23.57) .922 (23.42)	.805 (20.45) .799 (20.29)	7/8-28UN-2A	.940 (23.88) .928 (23.57)	1.150 (29.21) 1.130 (28.70)	105°	140°	215°	265°	60	46	46	60	89	60
16	1.054 (26.77) 1.048 (26.62)	.930 (23.63) .924 (23.47)	1-28UN-2A	1.066 (27.08) 1.054 (26.77)	1.280 (32.51) 1.260 (32.00)	105°	140°	215°	265°	50	50	50	50	50	50
18	1.178 (29.92) 1.172 (29.77)	1.055 (26.80) 1.049 (26.64)	1 1/8-28UN-2A	1.190 (30.23) 1.178 (29.92)	1.400 (35.56) 1.380 (35.05)	105°	140°	215°	265°	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 ±.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. FOR DIMENSIONS NOT SHOWN HEREIN, REFER TO AS81511 FIGURE 6.

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: M81511/55FD01P1.

