

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/45 WITH THIS DOCUMENT.

NOTICE

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

AS81511/45

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

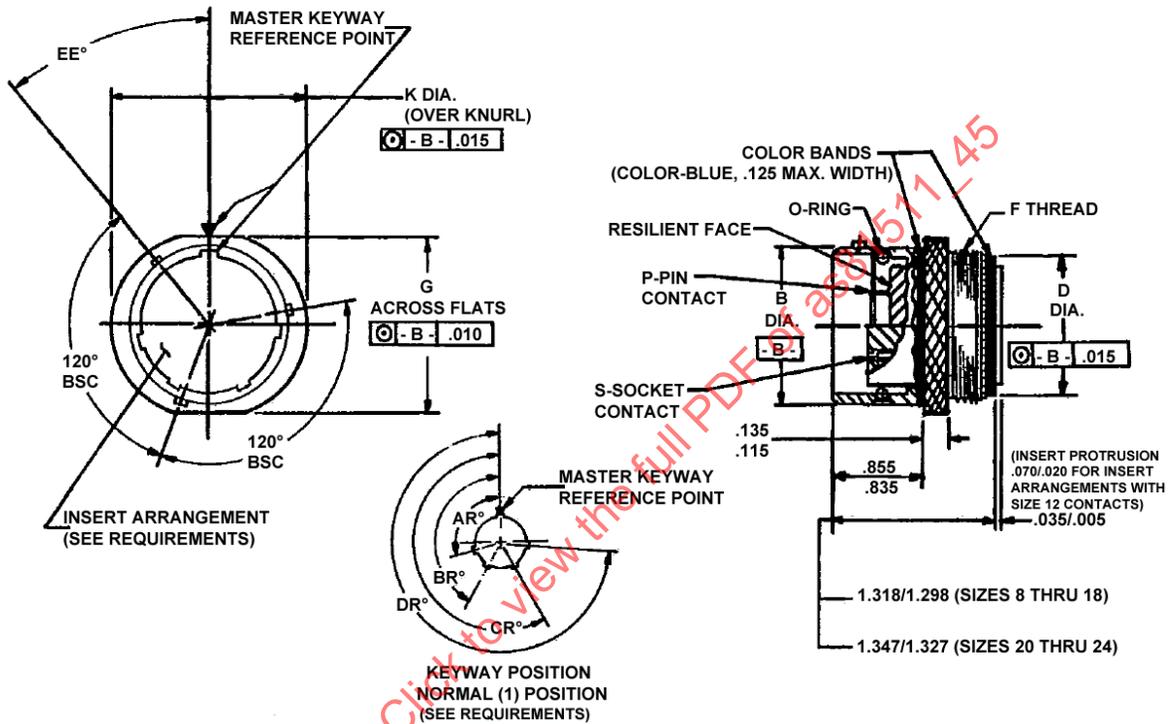
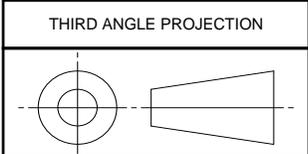


FIGURE 1 CONNECTOR RECEPTACLE, FLANGE MOUNT (SERIES 3)

SAENORM.COM: Click to view the full PDF of AS81511-45

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS81511/45>



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 AND F - SERIES 3)

AS81511/45
SHEET 1 OF 3

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.005	0.13	.115	2.92	.855	21.72	1.327	33.71
.010	0.25	.135	3.43	1.298	32.97	1.347	34.21
.015	0.38	.835	21.21	1.318	33.48		

TABLE 2 - FIGURE 1 DIMENSIONS/CONFIGURATION

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)	.430 (10.92)	1/2-28UNEF-2A	.565 (14.35)	.780 (19.81)	105°	140	215°	265°	60	46	43	60	89	43
	.547 (13.89)	.424 (10.77)		.553 (14.05)	.760 (19.30)										
10	.678 (17.22)	.555 (14.10)	5/8-28UN-2A	.690 (17.53)	.900 (22.86)	95°	141°	208°	236°	53	87	51	77	87	87
	.672 (17.07)	.549 (13.94)		.678 (17.22)	.880 (22.35)										
14	.928 (23.57)	.805 (20.45)	7/8-28UN-2A	.940 (23.88)	1.150 (29.21)	95°	141°	208°	236°	53	87	51	77	87	87
	.922 (23.42)	.799 (20.29)		.928 (23.57)	1.130 (28.70)										
16	1.054 (26.77)	.930 (23.63)	1-28UN-2A	1.066 (27.08)	1.280 (32.51)	80°	142°	196°	293°	98	98	98	98	98	98
	1.048 (26.62)	.924 (23.47)		1.054 (26.77)	1.260 (32.00)										
18	1.178 (29.92)	1.055 (26.80)	1 1/8-28UN-2A	1.190 (30.23)	1.400 (35.56)	80°	142°	196°	293°	98	98	98	98	98	98
	1.172 (29.77)	1.049 (26.64)		1.178 (29.92)	1.380 (35.05)										
20	1.303 (33.10)	1.180 (29.97)	1 1/4-28UN-2A	1.315 (33.40)	1.525 (38.74)	80°	142°	196°	293°	98	98	98	98	98	98
	1.297 (32.94)	1.174 (29.82)		1.305 (33.15)	1.505 (38.23)										
22	1.428 (36.27)	1.305 (33.15)	1 3/8-28UN-2A	1.440 (36.58)	1.650 (41.91)	80°	142°	196°	293°	98	98	98	98	98	98
	1.422 (36.12)	1.299 (32.99)		1.430 (36.32)	1.630 (41.40)										
24	1.553 (39.45)	1.430 (36.32)	1 1/2-28UN-2A	1.565 (39.75)	1.775 (45.09)	80°	142°	196°	293°	98	98	98	98	98	98
	1.547 (39.29)	1.424 (36.17)		1.555 (39.50)	1.755 (44.58)										

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 8. FOR DIMENSIONS NOT SHOWN IN FIGURE 1, REFER TO AS81511, FIGURE 13.

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