FEDERAL SUPPLY CLASS
5935

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS WRITTEN TO PERMIT THE CANCELLATION AND SUPERSESSION OF MIL-C-81511/26 WITH THIS DOCUMENT.

NOTICE

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

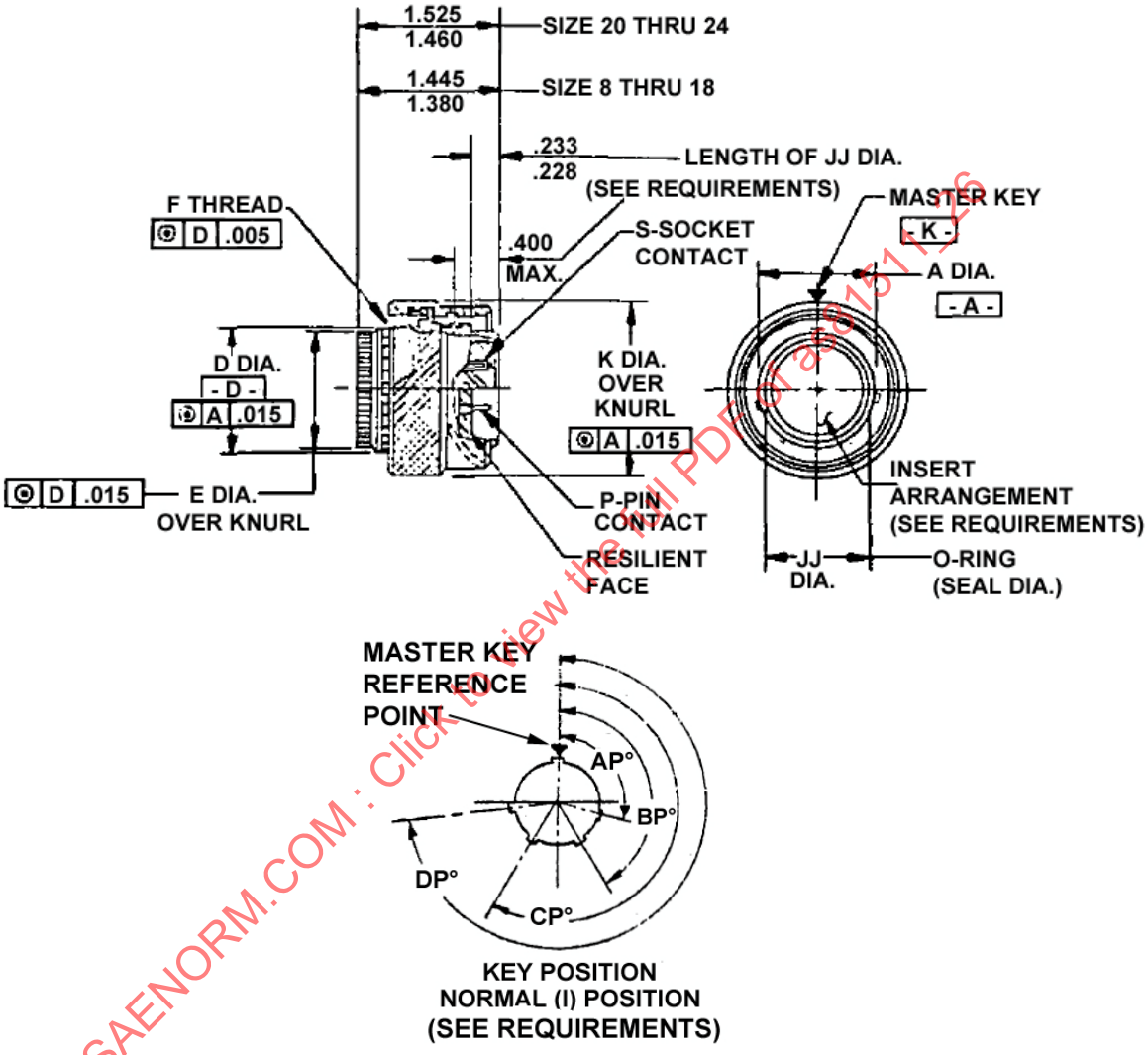
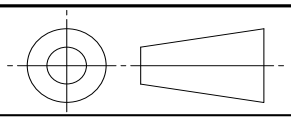


FIGURE 1 - CONNECTOR PLUG

THIRD ANGLE PROJECTION



ISSUED 2014-10

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81511

SAE INTERNATIONAL

AEROSPACE STANDARD

CONNECTOR, PLUG, ELECTRICAL, CIRCULAR,
HIGH DENSITY, QUICK DISCONNECT,
ENVIRONMENT RESISTING, CRIMP TYPE CONTACTS
(CLASS A, F AND E - SERIES 1)

AS81511/26
SHEET 1 OF 3

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TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.005	0.13	.233	5.92	1.445	36.70
.015	0.38	.400	10.16	1.460	37.08
.228	5.79	1.380	35.05	1.525	38.74

TABLE 2 - FIGURE 1 DIMENSIONS/CONFIGURATION

SHELL SIZE	A Ø	D Ø	E Ø	F THREAD	K Ø	AP° BSC	BP° BSC	CP° BSC	DP° BSC	JJ Ø
8	.4015 (10.20) .3955 (10.05)	.430 (10.92) .424 (10.77)	.422 (10.72) .407 (10.34)	1/2-28UNEF-2A	.850 (21.59) .830 (21.08)	105°	140°	215°	265°	.382 (9.70) .373 (9.47)
10	.5265 (13.37) .5205 (13.22)	.555 (14.10) .549 (13.94)	.548 (13.92) .533 (13.54)	5/8-28UN-2A	.975 (24.77) .955 (24.26)	95°	141°	208°	236°	.507 (12.88) .498 (12.65)
14	.7765 (19.72) .7705 (19.57)	.805 (20.45) .799 (20.29)	.798 (20.27) .783 (19.89)	7/8-28UN-2A	1.225 (31.12) 1.205 (30.61)	95°	141°	208°	236°	.757 (19.23) .746 (18.95)
16	.9025 (22.92) .8965 (22.77)	.930 (23.63) .924 (23.47)	.924 (23.47) .909 (23.09)	1-28UN-2A	1.350 (34.29) 1.330 (33.78)	80°	142°	196°	293°	.883 (22.43) .872 (22.15)
18	1.0265 (26.07) 1.0205 (25.92)	1.055 (26.80) 1.049 (26.64)	1.048 (26.62) 1.033 (26.24)	1 1/8-28UN-2A	1.475 (37.47) 1.455 (36.96)	80°	142°	196°	293°	1.007 (25.58) .996 (25.30)
20	1.1515 (29.25) 1.1455 (29.10)	1.180 (29.97) 1.174 (29.82)	1.173 (29.79) 1.158 (29.41)	1 1/4-28UN-2A	1.624 (41.25) 1.604 (40.74)	80°	142°	196°	293°	1.132 (28.75) 1.121 (28.47)
22	1.2765 (32.42) 1.2705 (32.27)	1.305 (33.15) 1.299 (32.99)	1.298 (32.97) 1.283 (32.59)	1 3/8-28UN-2A	1.749 (44.42) 1.729 (43.92)	80°	142°	196°	293°	1.257 (31.93) 1.246 (31.65)
24	1.4015 (35.60) 1.3955 (35.45)	1.430 (36.32) 1.408 (35.76)	1.423 (36.14) 1.408 (35.76)	1 1/2-28UN-2A	1.874 (47.60) 1.854 (47.09)	80°	142°	196°	293°	1.382 (35.10) 1.371 (34.82)

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 1. 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. THE .400 MAX. DIMENSION IN FIGURE 1 IS THE DISTANCE FROM THE FRONT OF THE SHELL TO THE POINT AT WHICH A GAGE RING, HAVING THE SAME BASIC DIAMETER AS THE RECEPTACLE SHELL, ENGAGES THE SPRING MEMBER.

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