

RATIONALE

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AS81511/14

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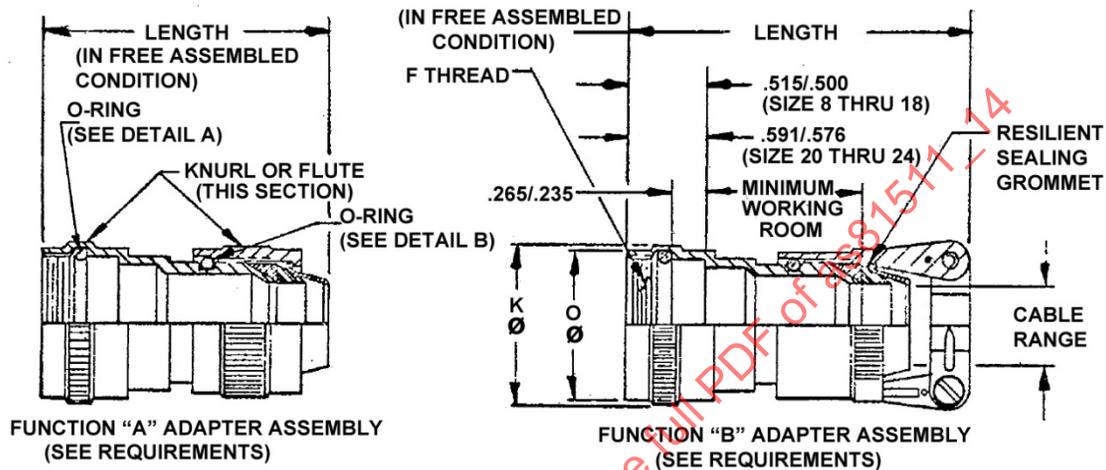
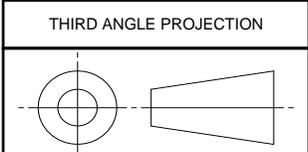


FIGURE 1 - CONNECTOR ACCESSORY, ADAPTER, STRAIGHT (FUNCTION A AND B ASSEMBLIES)

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81511



AEROSPACE STANDARD

ACCESSORY, ADAPTER, STRAIGHT, CONNECTOR, ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING

AS81511/14
SHEET 1 OF 6

ISSUED 2014-10

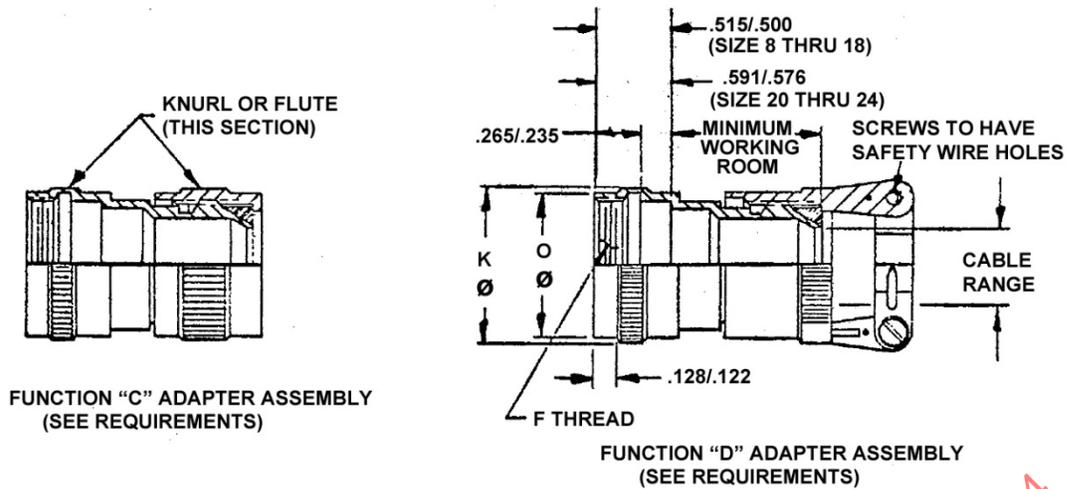


FIGURE 1A - CONNECTOR ADAPTER, STRAIGHT (FUNCTION C AND D ASSEMBLIES)

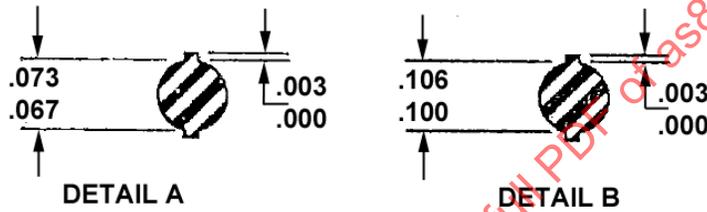


FIGURE 1B - CONNECTOR ADAPTER, STRAIGHT (DETAILS A AND B)

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.003	0.08	.122	3.10	.485	12.32
.067	1.70	.128	3.25	.500	12.70
.073	1.85	.235	5.97	.515	13.08
.100	2.54	.265	6.73	.576	14.63
.106	2.69	.470	11.94	.591	15.01



AEROSPACE STANDARD

ACCESSORY, ADAPTER, STRAIGHT, CONNECTOR,
ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK
DISCONNECT, ENVIRONMENT RESISTING

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TABLE 2 - PART NUMBER AND CHARACTERISTICS

PART NUMBER M81511/14-	SHELL SIZE	FUNCTION SYMBOL (SEE REQ.)	CABLE RANGE		F THREAD (CLASS 2B)	O DIA. (SEE REQ.)	K DIA. (SEE REQ.)	MIN. WORKING ROOM	LENGTH REF. (SEE REQ.)	APPROX. WEIGHT (LB)					
			MIN.	MAX.											
001	8	A	.062 (1.57)	.125 (3.18)	1/2-28UNEF	.555 (14.10)	.640 (16.26)	1.125 (28.58)	2.22	.025					
002			.125 (3.18)	.250 (6.35)					2.72						
003		B	.062 (1.57)	.125 (3.18)					2.72		.036				
004			.125 (3.18)	.250 (6.35)					2.72						
005		A	.062 (1.57)	.125 (3.18)				1.625 (41.28)	2.72	.028					
006			.125 (3.18)	.250 (6.35)					3.22						
007		B	.062 (1.57)	.125 (3.18)					3.22		.039				
008			.125 (3.18)	.250 (6.35)					3.22						
009	10	A	.125 (3.18)	.250 (6.35)	5/8-28UN	.680 (17.27)	.765 (19.43)	1.125 (28.58)	2.22	.027					
010			.250 (6.35)	.375 (9.53)					2.72	.033					
011			.375 (9.53)	.500 (12.70)					2.72	.039					
012		B	.125 (3.18)	.250 (6.35)					1.625 (41.28)	2.72	.038				
013			.250 (6.35)	.375 (9.53)				2.72		.047					
014			.375 (9.53)	.500 (12.70)				2.72		.052					
015		A	.125 (3.18)	.250 (6.35)				1.625 (41.28)		2.72		.031			
016			.250 (6.35)	.375 (9.53)					2.72	.037					
017			.375 (9.53)	.500 (12.70)					2.72	.043					
018		B	.125 (3.18)	.250 (6.35)					1.625 (41.28)	3.22	.042				
019			.250 (6.35)	.375 (9.53)				3.22		.051					
020			.375 (9.53)	.500 (12.70)				3.22		.056					
021		14	A	.250 (6.35)				.375 (9.53)		7/8-28UN		.930 (23.62)	1.015 (25.78)	1.125 (28.58)	2.22
022				.375 (9.53)				.500 (12.70)	2.72		.042				
023				.500 (12.70)				.625 (15.88)	2.72		.052				
024			B	.250 (6.35)				.375 (9.53)	1.625 (41.28)		2.72				.050
025				.375 (9.53)				.500 (12.70)			2.72			.055	
026				.500 (12.70)				.625 (15.88)			2.72			.063	
027			A	.250 (6.35)				.375 (9.53)			1.625 (41.28)			2.72	
028				.375 (9.53)				.500 (12.70)	2.72					.049	
029	.500 (12.70)			.625 (15.88)	2.72	.059									
030	B		.250 (6.35)	.375 (9.53)	1.625 (41.28)	3.22	.057								
031			.375 (9.53)	.500 (12.70)		3.22		.062							
032			.500 (12.70)	.625 (15.88)		3.22		.070							
033	16	A	.250 (6.35)	.375 (9.53)		1-28UN		1.056 (26.82)	1.140 (28.96)	1.125 (28.58)	2.22	.038			
034			.375 (9.53)	.500 (12.70)	2.72		.044								
035			.500 (12.70)	.625 (15.88)	2.72		.054								
036		B	.250 (6.35)	.375 (9.53)	1.625 (41.28)		2.72				.052				
037			.375 (9.53)	.500 (12.70)			2.72			.057					
038			.500 (12.70)	.625 (15.88)			2.72			.065					
039		A	.250 (6.35)	.375 (9.53)			1.625 (41.28)			2.72		.045			
040			.375 (9.53)	.500 (12.70)	2.72					.051					
041			.500 (12.70)	.625 (15.88)	2.72					.061					
042		B	.250 (6.35)	.375 (9.53)	1.625 (41.28)					3.22	.059				
043			.375 (9.53)	.500 (12.70)			3.22			.064					
044			.500 (12.70)	.625 (15.88)			3.22			.072					
045		18	A	.375 (9.53)			.500 (12.70)			1 1/8-28UN		1.180 (29.97)	1.265 (32.13)	1.125 (28.58)	2.22
046				.500 (12.70)	.625 (15.88)		2.72				.057				
047				.625 (15.88)	.750 (19.05)		2.72				.055				
048			B	.375 (9.53)	.500 (12.70)		1.625 (41.28)				2.72				.059
049	.500 (12.70)			.625 (15.88)	2.72	.067									
050	.625 (15.88)			.750 (19.05)	2.72	.074									
051	A		.375 (9.53)	.500 (12.70)	1.625 (41.28)	2.72		.054							
052			.500 (12.70)	.625 (15.88)		2.72	.065								
053			.625 (15.88)	.750 (19.05)		2.72	.063								
054	B		.375 (9.53)	.500 (12.70)		1.625 (41.28)	3.22		.067						
055		.500 (12.70)	.625 (15.88)	3.22	.075										
056		.625 (15.88)	.750 (19.05)	3.22	.082										

TABLE 2 - PART NUMBER AND CHARACTERISTICS (CONTINUED)

PART NUMBER M81511/14-	SHELL SIZE	FUNCTION SYMBOL (SEE REQ.)	CABLE RANGE		F THREAD (CLASS 2B)	O DIA. (SEE REQ.)	K DIA. (SEE REQ.)	MIN. WORKING ROOM	LENGTH REF. (SEE REQ.)	APPROX. WEIGHT (LB)							
			MIN.	MAX.													
057	8	C	.062 (1.57)	.125 (3.18)	1/2-28UNEF	.555 (14.10)	.640 (16.26)	1.125 (28.58)	1.71 (43.43)	.022							
058			.125 (3.18)	.250 (6.35)					2.47 (62.74)								
059		D	.062 (1.57)	.125 (3.18)					1.625 (41.28)		2.21 (56.13)	.025					
060			.125 (3.18)	.250 (6.35)							2.97 (75.44)						
061		C	.062 (1.57)	.125 (3.18)				5/8-28UN	.680 (17.27)	.765 (19.43)	1.125 (28.58)	2.21 (56.13)	.036				
062			.125 (3.18)	.250 (6.35)								2.47 (62.74)					
063		D	.062 (1.57)	.125 (3.18)								1.625 (41.28)		2.21 (56.13)	.028		
064			.125 (3.18)	.250 (6.35)										2.97 (75.44)			
065	10	C	.125 (3.18)	.250 (6.35)	7/8-28UN	.930 (23.62)	1.015 (25.78)				1.125 (28.58)	1.71 (43.43)	.024				
066			.250 (6.35)	.375 (9.53)								2.47 (62.74)	.028				
067			.375 (9.53)	.500 (12.70)								2.21 (56.13)	.034				
068		D	.125 (3.18)	.250 (6.35)								1.625 (41.28)	2.47 (62.74)	.043			
069			.250 (6.35)	.375 (9.53)				2.97 (75.44)	.046								
070			.375 (9.53)	.500 (12.70)				2.21 (56.13)	.028								
071		C	.125 (3.18)	.250 (6.35)				1-28UN	1.047 (26.59)	1.120 (28.45)	1.125 (28.58)	2.21 (56.13)	.032				
072			.250 (6.35)	.375 (9.53)								2.47 (62.74)	.038				
073			.375 (9.53)	.500 (12.70)								2.97 (75.44)	.039				
074		D	.125 (3.18)	.250 (6.35)								1.625 (41.28)	2.21 (56.13)	.047			
075			.250 (6.35)	.375 (9.53)							2.47 (62.74)		.049				
076			.375 (9.53)	.500 (12.70)							2.97 (75.44)		.050				
077		14	C	.250 (6.35)							.375 (9.53)	1-28UN	1.180 (29.97)	1.265 (32.13)	1.125 (28.58)	1.71 (43.43)	.031
078				.375 (9.53)							.500 (12.70)					2.47 (62.74)	.037
079				.500 (12.70)							.625 (15.88)					2.21 (56.13)	.045
080			D	.250 (6.35)							.375 (9.53)					1.625 (41.28)	2.47 (62.74)
081	.375 (9.53)			.500 (12.70)	2.97 (75.44)	.049											
082	.500 (12.70)			.625 (15.88)	2.21 (56.13)	.055											
083	C		.250 (6.35)	.375 (9.53)	1-28UN	1.171 (29.74)	1.245 (31.62)				1.125 (28.58)				2.21 (56.13)	.038	
084			.375 (9.53)	.500 (12.70)											2.47 (62.74)	.044	
085			.500 (12.70)	.625 (15.88)											2.97 (75.44)	.052	
086	D		.250 (6.35)	.375 (9.53)											1.625 (41.28)	2.21 (56.13)	.053
087		.375 (9.53)	.500 (12.70)	2.47 (62.74)				.056									
088		.500 (12.70)	.625 (15.88)	2.97 (75.44)				.062									
089	16	C	.250 (6.35)	.375 (9.53)				1-28UN	1.180 (29.97)	1.265 (32.13)	1.125 (28.58)	1.71 (43.43)	.033				
090			.375 (9.53)	.500 (12.70)								2.47 (62.74)	.039				
091			.500 (12.70)	.625 (15.88)								2.21 (56.13)	.047				
092		D	.250 (6.35)	.375 (9.53)								1.625 (41.28)	2.47 (62.74)	.048			
093			.375 (9.53)	.500 (12.70)	2.97 (75.44)	.051											
094			.500 (12.70)	.625 (15.88)	2.21 (56.13)	.057											
095		C	.250 (6.35)	.375 (9.53)	1-28UN	1.171 (29.74)	1.245 (31.62)				1.125 (28.58)	2.21 (56.13)	.040				
096			.375 (9.53)	.500 (12.70)								2.47 (62.74)	.046				
097			.500 (12.70)	.625 (15.88)								2.97 (75.44)	.054				
098		D	.250 (6.35)	.375 (9.53)								1.625 (41.28)	2.21 (56.13)	.056			
099			.375 (9.53)	.500 (12.70)							2.47 (62.74)		.058				
100			.500 (12.70)	.625 (15.88)							2.97 (75.44)		.064				
101	18	C	.375 (9.53)	.500 (12.70)				1 1/8-28UN	1.171 (29.74)	1.245 (31.62)	1.125 (28.58)	1.71 (43.43)	.041				
102			.500 (12.70)	.625 (15.88)								2.47 (62.74)	.049				
103			.625 (15.88)	.750 (19.05)								2.21 (56.13)	.047				
104		D	.375 (9.53)	.500 (12.70)								1.625 (41.28)	2.47 (62.74)	.053			
105			.500 (12.70)	.625 (15.88)							2.97 (75.44)		.059				
106			.625 (15.88)	.750 (19.05)							2.21 (56.13)		.066				
107		C	.375 (9.53)	.500 (12.70)	1 1/8-28UN	1.171 (29.74)	1.245 (31.62)				1.125 (28.58)	2.21 (56.13)	.049				
108			.500 (12.70)	.625 (15.88)								2.47 (62.74)	.057				
109			.625 (15.88)	.750 (19.05)								2.97 (75.44)	.055				
110		D	.375 (9.53)	.500 (12.70)								1.625 (41.28)	2.21 (56.13)	.061			
111			.500 (12.70)	.625 (15.88)							2.47 (62.74)		.067				
112			.625 (15.88)	.750 (19.05)							2.97 (75.44)		.074				