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REV.
B

AS85049™/138

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING, REPLACE TABLES WITH WORD TABLES, REPLACE PART NUMBER IMAGES WITH WORD TEXT, AND MOVE NOTES TO REQUIREMENTS SECTION. TO ADD THE AS95234 SPECIFICATION AND APPLICABLE DIMENSIONS TO TABLES 1 AND 2, SHEET 5: CHANGE THE "B" MATERIAL TO READ: B = ELECTROSTATIC FREE MATERIAL, COLOR BLACK, SURFACE RESISTIVITY OF AT LEAST 1×10^5 OHMS/SQUARE BUT LESS THAN 1×10^{12} OHMS/SQUARE WHEN TESTED TO ASTM D257, NON-SLOUGHING. ESD SYMBOL SHALL BE MARKED ON EACH CAP.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

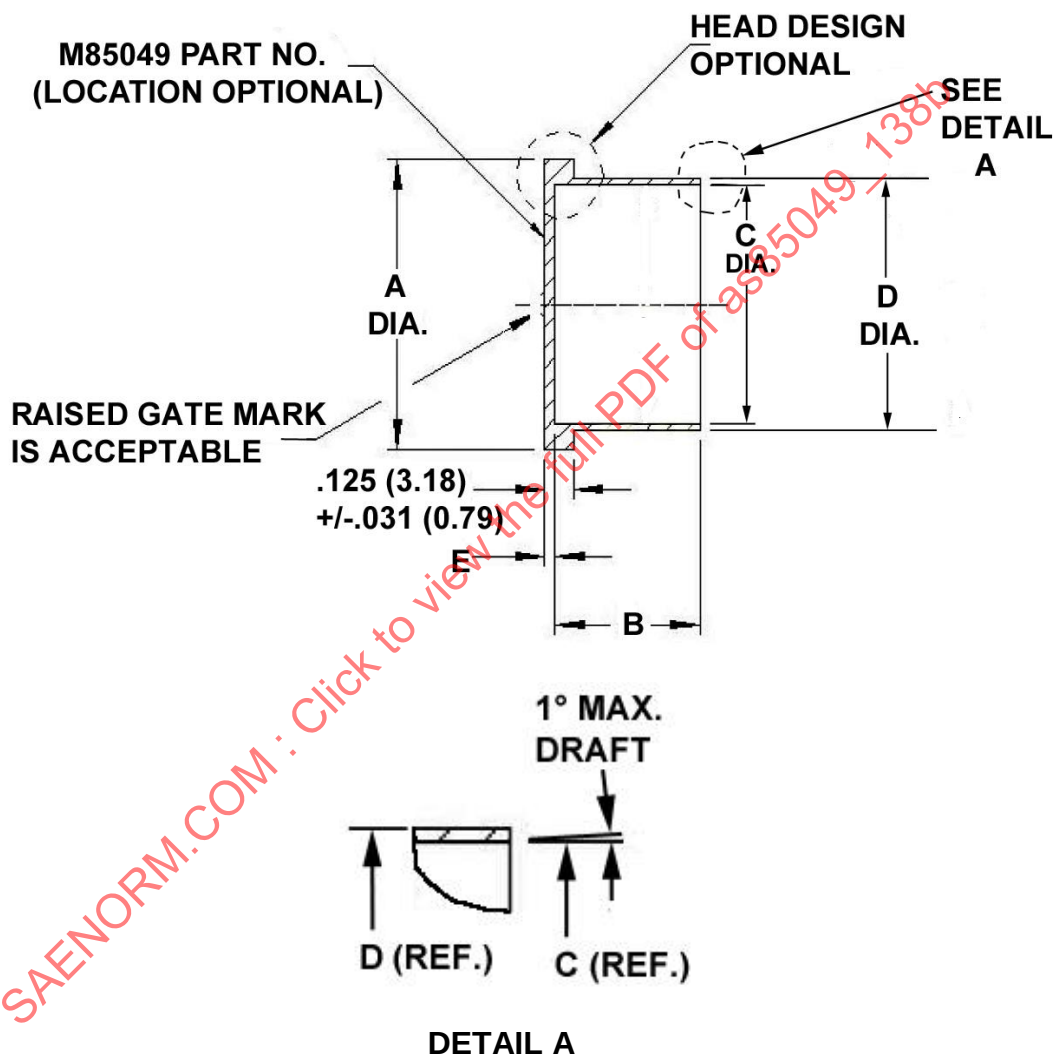
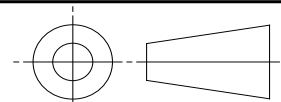


FIGURE 1 – ACCESSORY DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/138B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES,
ELECTRICAL, CAP, DUST,
PLASTIC, CATEGORY 9

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TABLE 1 – FIGURE 1 DIMENSIONS

DASH NUMBER	STANDARD COLOR	A ±.031 (0.79) DIA.	B ±.031 (0.79) DIM.	C ±.010 (0.25) DIA.	D ±.010 (0.25) DIA.	E ±.010 (0.25) DIM.	SUPERSEDES AS90376-
08	RED	.430 (10.92)	.500 (12.70)	.245 (6.22)	.305 (7.75)	.035 (0.89)	-
10	RED	.500 (12.70)	.500 (12.70)	.305 (7.75)	.365 (9.27)	.035 (0.89)	-
11	RED	.585 (14.86)	.500 (12.70)	.345 (8.76)	.405 (10.29)	.035 (0.89)	-
12	YELLOW	.620 (15.75)	.500 (12.70)	.368 (9.35)	.438 (11.13)	.035 (0.89)	-
14	YELLOW	.670 (17.02)	.625 (15.88)	.413 (10.49)	.483 (12.27)	.040 (1.02)	8Y
15	YELLOW	.682 (17.32)	.625 (15.88)	.442 (11.23)	.502 (12.75)	.040 (1.02)	-
16	RED	.740 (18.80)	.500 (12.70)	.480 (12.19)	.540 (13.72)	.040 (1.02)	8R
18	YELLOW	.750 (19.05)	.625 (15.88)	.530 (13.46)	.595 (15.11)	.040 (1.02)	10Y
19	YELLOW	.810 (20.57)	.625 (15.88)	.570 (14.48)	.630 (16.00)	.040 (1.02)	-
20	RED	.840 (21.34)	.500 (12.70)	.605 (15.37)	.665 (16.89)	.040 (1.02)	10R
22	YELLOW	.860 (21.84)	.625 (15.88)	.655 (16.64)	.715 (18.16)	.040 (1.02)	12Y
24	RED	.970 (24.64)	.500 (12.70)	.720 (18.29)	.775 (19.69)	.040 (1.02)	12R
26	YELLOW	1.031 (26.19)	.625 (15.88)	.785 (19.94)	.845 (21.46)	.045 (1.14)	14Y
27	RED	1.050 (26.67)	.500 (12.70)	.810 (20.57)	.870 (22.10)	.045 (1.14)	-
28	RED	1.125 (28.58)	.500 (12.70)	.850 (21.59)	.905 (22.99)	.045 (1.14)	14R
29	YELLOW	1.125 (28.58)	.625 (15.88)	.893 (22.68)	.963 (24.46)	.045 (1.14)	16Y
30	YELLOW	1.160 (29.46)	.625 (15.88)	.910 (23.11)	.980 (24.89)	.045 (1.14)	-
31	RED	1.180 (29.97)	.500 (12.70)	.930 (23.62)	1.000 (25.40)	.045 (1.14)	-
33	RED	1.220 (30.99)	.500 (12.70)	.973 (24.71)	1.035 (26.29)	.045 (1.14)	16R
34	YELLOW	1.250 (31.75)	.625 (15.88)	1.028 (26.11)	1.088 (27.64)	.045 (1.14)	18Y
35	RED	1.312 (33.32)	.500 (12.70)	1.062 (26.97)	1.132 (28.75)	.045 (1.14)	-
36	RED	1.330 (33.78)	.562 (14.27)	1.093 (27.76)	1.155 (29.34)	.045 (1.14)	18R
37	YELLOW	1.375 (34.93)	.625 (15.88)	1.120 (28.45)	1.190 (30.23)	.045 (1.14)	-
38	YELLOW	1.406 (35.71)	.625 (15.88)	1.150 (29.21)	1.215 (30.86)	.050 (1.27)	20Y
39	RED	1.438 (36.53)	.562 (14.27)	1.180 (29.97)	1.250 (31.75)	.050 (1.27)	-
40	YELLOW	1.450 (36.83)	.625 (15.88)	1.200 (30.48)	1.270 (32.26)	.050 (1.27)	-
41	RED	1.465 (37.21)	.562 (14.27)	1.231 (31.27)	1.301 (33.05)	.050 (1.27)	20R
42	YELLOW	1.500 (38.10)	.625 (15.88)	1.270 (32.26)	1.340 (34.04)	.050 (1.27)	22Y
43	YELLOW	1.547 (39.29)	.625 (15.88)	1.297 (32.94)	1.367 (34.72)	.050 (1.27)	-
44	RED	1.570 (39.88)	.562 (14.27)	1.320 (33.53)	1.390 (35.31)	.050 (1.27)	-
45	RED	1.590 (40.39)	.562 (14.27)	1.340 (34.04)	1.410 (35.81)	.050 (1.27)	22R
46	YELLOW	1.610 (40.89)	.625 (15.88)	1.360 (34.54)	1.430 (36.32)	.050 (1.27)	-
47	YELLOW	1.640 (41.66)	.625 (15.88)	1.390 (35.31)	1.460 (37.08)	.050 (1.27)	24Y
48	RED	1.665 (42.29)	.562 (14.27)	1.415 (35.94)	1.485 (37.72)	.050 (1.27)	-
49	YELLOW	1.700 (43.18)	.625 (15.88)	1.450 (36.83)	1.520 (38.61)	.050 (1.27)	-
50	RED	1.700 (43.18)	.562 (14.27)	1.463 (37.16)	1.533 (38.94)	.050 (1.27)	24R
50A	YELLOW	1.755 (44.58)	.625 (15.88)	1.505 (38.23)	1.575 (40.00)	.050 (1.27)	-
51	YELLOW	1.810 (45.97)	.625 (15.88)	1.540 (39.12)	1.610 (40.89)	.050 (1.27)	25Y
52	RED	1.820 (46.23)	.562 (14.27)	1.570 (39.88)	1.640 (41.66)	.050 (1.27)	-
53	RED	1.850 (46.99)	.562 (14.27)	1.600 (40.64)	1.670 (42.42)	.055 (1.40)	-
55	YELLOW	1.875 (47.63)	.625 (15.88)	1.648 (41.86)	1.718 (43.64)	.055 (1.40)	28Y
57	RED	1.950 (49.53)	.562 (14.27)	1.715 (43.56)	1.790 (45.47)	.055 (1.40)	28R
58	YELLOW	1.988 (50.49)	.625 (15.88)	1.753 (44.53)	1.828 (46.43)	.055 (1.40)	-
60	RED	2.020 (51.31)	.562 (14.27)	1.770 (44.96)	1.840 (46.74)	.055 (1.40)	-
61	RED	2.064 (52.43)	.625 (15.88)	1.824 (46.33)	1.904 (48.36)	.055 (1.40)	-
63	YELLOW	2.125 (53.98)	.625 (15.88)	1.890 (48.01)	1.970 (50.04)	.055 (1.40)	32Y
65	RED	2.220 (56.39)	.562 (14.27)	1.965 (49.91)	2.040 (51.82)	.055 (1.40)	32R
66	RED	2.317 (58.85)	.625 (15.88)	2.087 (53.01)	2.157 (54.79)	.055 (1.40)	-
71	YELLOW	2.340 (59.44)	.625 (15.88)	2.140 (54.36)	2.210 (56.13)	.055 (1.40)	36Y
74	RED	2.435 (61.85)	.600 (15.24)	2.215 (56.26)	2.290 (58.17)	.055 (1.40)	36R
75	YELLOW	2.500 (63.50)	.600 (15.24)	2.280 (57.91)	2.355 (59.82)	.055 (1.40)	-
76	RED	2.547 (64.69)	.625 (15.88)	2.332 (59.23)	2.402 (61.01)	.060 (1.52)	-
77	YELLOW	2.600 (66.04)	.625 (15.88)	2.380 (60.45)	2.450 (62.23)	.060 (1.52)	40Y
81	RED	2.660 (67.56)	.600 (15.24)	2.440 (61.98)	2.530 (64.26)	.060 (1.52)	40R
87	YELLOW	2.875 (73.03)	.625 (15.88)	2.630 (66.80)	2.700 (68.58)	.060 (1.52)	44Y
90	RED	2.960 (75.18)	.600 (15.24)	2.720 (69.09)	2.812 (71.42)	.060 (1.52)	44R
96	YELLOW	3.125 (79.38)	.625 (15.88)	2.880 (73.15)	2.950 (74.93)	.060 (1.52)	48Y
98	RED	3.225 (81.92)	.600 (15.24)	2.960 (75.18)	3.050 (77.47)	.060 (1.52)	48R



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TABLE 2 - CONNECTOR INTERFACE COVERS
SUGGESTED DASH NUMBER TO SHELL SIZE REFERENCE

DASH NUMBER	AS50151		MIL-DTL-26482 SERIES I & II		MIL-DTL-38999 SERIES I		MIL-DTL-38999 SERIES II		MIL-DTL-38999 SERIES III		AS95234	
	PLUG	RECPT.	PLUG	RECPT.	PLUG	RECPT.	PLUG	RECPT.	PLUG	RECPT.	PLUG	RECPT.
08												
10												
11	8S											
12												
14	10,10SL											
15												
16		8S										
18	12,12S			8				8				
19												
20		10S,10SL				9				9(A)		
22	14,14S			10				10				
24		12,12S	8				8			11(B)		
26	16,16S					11						
27				12			10	12	9(A)			
28		14,14S			9					13(C)		
29												
30	18		10									
31				14		13		14	11(B)			
33		16,16S			11		12			15(D)		
34	20		12			15						
35				16				16				
36		18										
37					13		14		13(C)			
38	22		14							17(E)		
39						17						
40				18				18				
41		20					16		15(D)	19(F)		
42	24		16		15							
43						19						
44				20				20				
45		22								21(G)		
46			18						17(E)			
47					17		18					
48						21						
49				22				22				
50	28	24	20		19		20		19(F)	23(H)		
50A											28	
51						23						
52				24				24				
53					21		22		21(G)	25(J)		
55			22			25						
57	32	28			23		24		23(H)			
58											32	
60			24									
61												28
63					25				25(J)			
65	36	32										
66												32
71												
74	40	36										
75												
76												36
77												
81	44	40										
87												
90	48	44										
96												
98		48										



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TABLE 2 - CONNECTOR INTERFACE COVERS
SUGGESTED DASH NUMBER TO SHELL SIZE REFERENCE (CONTINUED)

DASH NUMBER	MIL-DTL-83723 SERIES III		MIL-DTL-83723 SERIES III		AS81511 SERIES I, II, III, & IV		MIL-DTL-28840	
	PLUG	RECEPT.	PLUG	RECEPT.	PLUG	RECEPT.	PLUG	RECEPT.
08								
10								
11								
12								
14								
15								
16								
18		8						
19				8				
20						8		
22		10						
24	8		8	10		10		11
26								
27					8			
28		12						13
29	10		10	12				
30		14			10			
31								
33				14		14	11	
34		16						15
35	12		12	16				
36								17
37	14		14			16	13	
38		18						
39				18				
40					14			
41	16		16			18	15	
42								
43		20						19
44				20	16			
45	18		18					
46						20	17	
47								
48		22						
49				22	18			
50	20		20			22	19	23
51		24						
52				24				
53	22		22		20	24		25
55							23	
57	24		24		22			
60		28					25	29
63					24			
65								33
71							29	
74								
75							33	
77								
81								
87								
90								
96								
98								



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