

AS85049/138

RATIONALE

UPDATE AND CLARIFY MATERIAL AND DIMENSIONAL INFORMATION. ENDEAVOR TO INCLUDE ALL CONNECTOR ACCESSORIES IN AS85049. REPLACES SAE AS90376.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS85049.

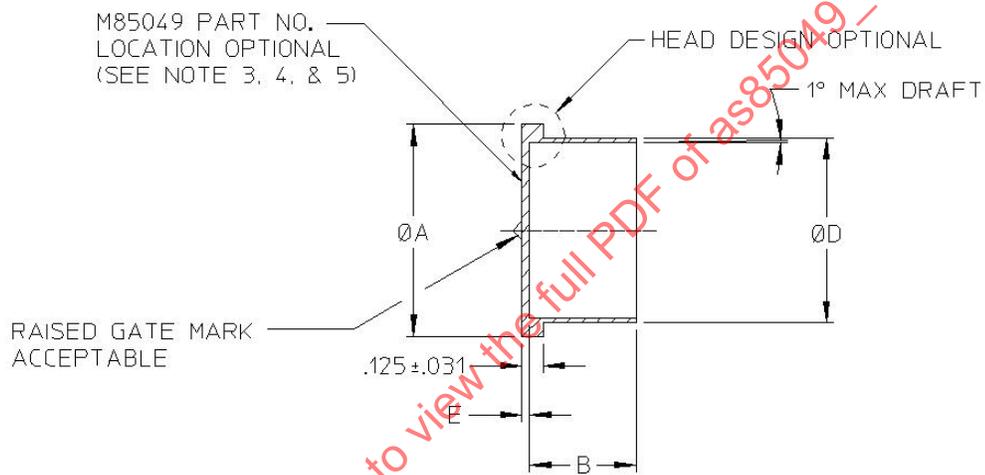
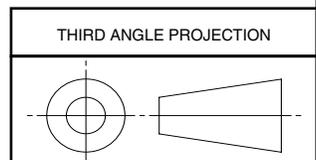


FIGURE 1 - DIMENSIONS AND CONFIGURATION



CUSTODIAN: SAE AE-8/AE-8C1

ISSUED 2006-09

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

CONNECTOR ACCESSORIES,  
ELECTRICAL, CAP, DUST,  
PLASTIC, CATEGORY 9

**AS85049/138**  
SHEET 1 OF 6

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TABLE 1 - DIMENSIONS

DASH NUMBER	STANDARD COLOR	A ±.031(.79) DIA	B ±.031(.79) DIM	C ±.010(.25) DIA	D ±.010(.25) DIA	E ±.010(.25) DIM	SUPERCEDES 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
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
60	RED	2.020 (51.31)	.562 (14.27)	1.770 (44.96)	1.840 (46.74)	.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
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)	-
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

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DASH NUMBER	MIL-DTL-5015		MIL-DTL-26482 SERIES I & II		MIL-DTL-38999 SERIES I		MIL-DTL-38999 SERIES II		MIL-DTL-38999 SERIES III	
	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)
51						23				
52				24				24		
53					21		22		21(G)	25(J)
55			22			25				
57	32	28			23		24		23(H)	
60			24							
63					25				25(J)	
65	36	32								
71										
74	40	36								
75										
77										
81	44	40								
87										
90	48	44								
96										
98		48								

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

AS85049/138

DASH NUMBER	MIL-DTL-83723 SERIES III THREADED COUPLING		MIL-DTL-83723 SERIES III BAYONET COUPLING		MIL-C-81511 SERIES I, II, III, & IV		MIL-C-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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