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SAE AS85049/6

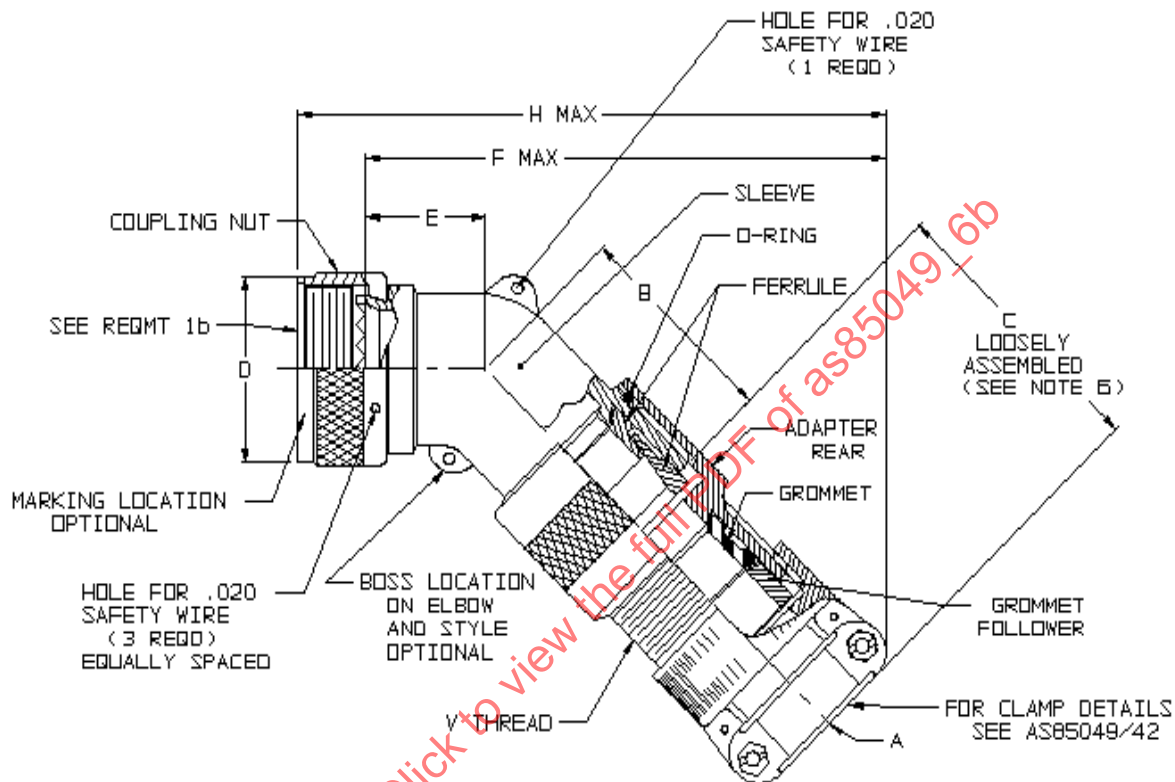
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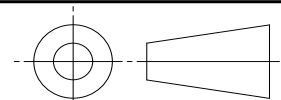


STYLE 1

FIGURE 1 - CONFIGURATION AND DIMENSIONS

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
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AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, CABLE SEALING, 45°, SHIELD TERMINATION, CATEGORY 1A (FOR AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

SAE AS85049/6
SHEET 1 OF 9

REV.
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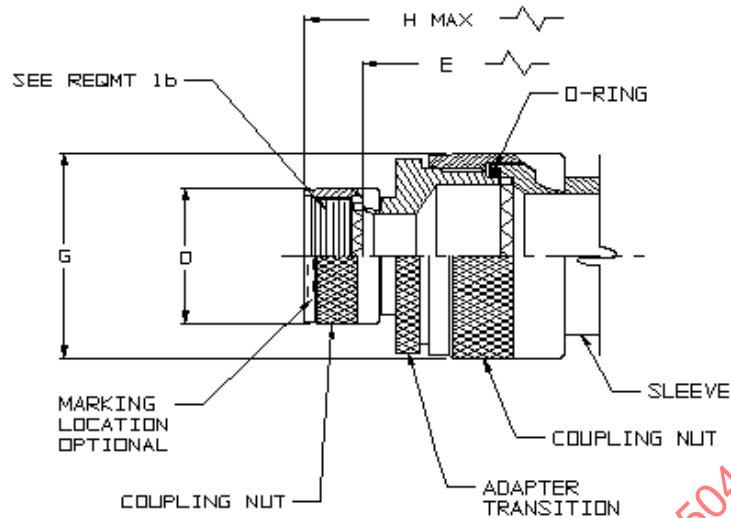
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ISSUED 2001-07 REVISED 2011-01



STYLE 2

FIGURE 1 - CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - DIMENSIONS

DASH NO	CONNECTOR SHELL SIZE				Clamp Size	A (See note 6)		Style	B ±.125	C Ref
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 Crimp	MIL-DTL-83723 Series III		WIRE BUNDLE ACCOMMODATION RANGE				
						MIN	MAX			
1	3	N/A	N/A	N/A	4	.125 (3.18)	.250 (6.35)	1	1.790 (45.47)	1.544 (39.22)
2					6	.250 (6.35)	.437 (11.10)	2	1.910 (48.51)	1.544 (39.22)
3	N/A	8	8S	8	4	.125 (3.18)	.250 (6.35)	1	1.182 (30.02)	1.544 (39.22)
4		10	10S, 10SL	10	4	.125 (3.18)	.312 (7.92)	1	1.850 (46.99)	1.544 (39.22)
5					6	.250 (6.35)	.375 (9.53)	1	1.245 (31.62)	1.544 (39.22)
6		7	12	12, 12S	12	4	.125 (3.18)	.312 (7.92)	1	1.910 (48.51)
7	6					.250 (6.35)	.437 (11.10)	1	1.910 (48.51)	1.544 (39.22)
8	10					.350 (8.89)	.500 (12.70)	1	1.910 (48.51)	1.844 (46.84)
9	12	14	14, 14S	14	6	.250 (6.35)	.437 (11.10)	1	2.000 (50.80)	1.544 (39.22)
10					10	.350 (8.89)	.575 (14.61)	1	1.655 (42.04)	1.844 (46.84)
11	19	16	16, 16S	16	6	.250 (6.35)	.437 (11.10)	1	2.110 (53.59)	1.544 (39.22)
12					12	.500 (12.70)	.700 (17.78)	1	1.750 (44.45)	1.916 (48.67)
13	27	18	18	18	10	.350 (8.89)	.625 (15.88)	1	2.300 (58.42)	1.844 (46.84)
14					16	.625 (15.88)	.779 (19.79)	1	1.938 (49.23)	2.000 (50.80)
15	37	20	20	20	10	.350 (8.89)	.625 (15.88)	1	2.300 (58.42)	1.844 (46.84)
16					16	.625 (15.88)	.904 (22.96)	1	1.938 (49.23)	2.000 (50.80)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	D DIA MAX	E ±.125	V THREAD CLASS 2A	F MAX	G DIA MAX	H MAX
1	.669 (16.99)	.561 (14.25)	.625-24 UNEF	3.37 (85.60)	—	3.74 (95.00)
2	.669 (16.99)	1.375 (34.93)	.750-20 UNEF	4.33 (109.98)	.858 (21.79)	4.70 (119.38)
3	.617 (15.67)	.500 (12.70)	.625-24 UNEF	2.88 (73.15)	—	3.25 (82.55)
4	.734 (18.64)	.561 (14.25)	.625-24 UNEF	3.41 (86.61)	—	3.78 (96.01)
5	.734 (18.64)	.561 (14.25)	.750-20 UNEF	3.05 (77.47)	—	3.42 (86.87)
6	.858 (21.79)	.625 (15.88)	.625-24 UNEF	3.52 (89.41)	—	3.89 (98.81)
7	.858 (21.79)	.625 (15.88)	.750-20 UNEF	3.58 (90.93)	—	3.95 (100.33)
8	.858 (21.79)	.625 (15.88)	1.000-20 UNEF	3.86 (98.04)	—	4.23 (107.44)
9	.984 (24.99)	.688 (17.48)	.750-20 UNEF	3.71 (94.23)	—	4.08 (103.63)
10	.984 (24.99)	.688 (17.48)	1.000-20 UNEF	3.74 (95.00)	—	4.11 (104.39)
11	1.112 (28.24)	.781 (19.84)	.750-20 UNEF	3.88 (98.55)	—	4.25 (107.95)
12	1.112 (28.24)	.781 (19.84)	1.1875-18 UNEF	4.03 (102.36)	—	4.40 (111.76)
13	1.218 (30.94)	.968 (24.59)	1.000-20 UNEF	4.48 (113.79)	—	4.85 (123.19)
14	1.218 (30.94)	.968 (24.59)	1.4375-18 UNEF	4.49 (114.05)	—	4.86 (123.44)
15	1.345 (34.16)	.968 (24.59)	1.000-20 UNEF	4.48 (113.79)	—	4.85 (123.19)
16	1.345 (34.16)	.968 (24.59)	1.4375-18 UNEF	4.49 (114.05)	—	4.86 (123.44)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF	
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP	MIL-DTL-83723 SERIES III		WIRE BUNDLE ACCOMMODATION RANGE					
						MIN	MAX				
17	N/A	22	22	22	12	.500 (12.70)	.750 (19.05)	1	2.450 (62.23)	1.916 (48.67)	
18					20	.875 (22.23)	1.029 (26.14)	1	2.093 (53.16)	2.230 (56.64)	
19		24	24	24	12	.500 (12.70)	.750 (19.05)	1	2.450 (62.23)	1.916 (48.67)	
20					20	.875 (22.23)	1.144 (29.06)	1	2.093 (53.16)	2.230 (56.64)	
21		N/A	28	N/A	16	.625 (15.88)	.937 (23.80)	1	2.500 (63.50)	2.000 (50.80)	
22					24	1.000 (25.40)	1.375 (34.93)	1	2.156 (54.76)	2.024 (51.41)	
23					16	.625 (15.88)	.937 (23.80)	1	2.600 (66.04)	2.000 (50.80)	
24			32		20	.875 (22.23)	1.250 (31.75)	1	2.600 (66.04)	2.230 (56.64)	
25					28	1.250 (31.75)	1.625 (41.28)	1	2.250 (57.15)	2.550 (64.77)	
26					16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	2.000 (50.80)	
27			36		24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	2.024 (51.41)	
28					32	1.437 (36.50)	1.840 (46.74)	1	2.344 (59.54)	2.600 (66.04)	
29			40		16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	2.000 (50.80)	
30					24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	2.024 (51.41)	
31					32	1.437 (36.50)	1.875 (47.63)	1	2.344 (59.54)	2.600 (66.04)	

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	D DIA MAX	E ±.125	V THREAD CLASS 2A	F MAX	G DIA MAX	H MAX
17	1.468 (37.29)	1.063 (27.00)	1.1875-18 UNEF	4.81 (122.17)	—	5.18 (131.57)
18	1.468 (37.29)	1.063 (27.00)	1.750-18 UNS	4.98 (126.49)	—	5.35 (135.89)
19	1.593 (40.46)	1.063 (27.00)	1.1875-18 UNEF	4.81 (122.17)	—	5.18 (131.57)
20	1.593 (40.46)	1.063 (27.00)	1.750-18 UNS	4.98 (126.49)	—	5.35 (135.89)
21	1.969 (50.01)	1.188 (30.18)	1.4375-18 UNEF	5.11 (129.79)	—	5.64 (143.26)
22	1.969 (50.01)	1.188 (30.18)	2.000-18 UNS	5.09 (129.29)	—	5.62 (142.75)
23	2.219 (56.36)	1.250 (31.75)	1.4375-18 UNEF	5.24 (133.10)	—	5.77 (146.56)
24	2.219 (56.36)	1.250 (31.75)	1.750-18 UNS	5.52 (140.21)	—	6.05 (153.67)
25	2.219 (56.36)	1.250 (31.75)	2.250-16 UN	5.73 (145.54)	—	6.26 (159.00)
26	2.469 (62.71)	1.281 (32.54)	1.4375-18 UNEF	5.33 (135.38)	—	5.86 (148.84)
27	2.469 (62.71)	1.281 (32.54)	2.000-18 UNS	5.56 (141.22)	—	6.09 (154.69)
28	2.469 (62.71)	1.281 (32.54)	2.500-16 UN	5.95 (151.13)	—	6.48 (164.59)
29	2.719 (69.06)	2.031 (51.59)	1.4375-18 UNEF	6.08 (154.43)	—	6.61 (167.89)
30	2.719 (69.06)	2.031 (51.59)	2.000-18 UNS	6.31 (160.27)	—	6.84 (173.74)
31	2.719 (69.06)	2.031 (51.59)	2.500-16 UN	6.70 (170.18)	—	7.23 (183.64)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP	MIL-DTL-83723 SERIES III		WIRE BUNDLE ACCOMMODATION RANGE				
						MIN	MAX			
32	N/A	N/A	44	N/A	16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	2.000 (50.80)
33					24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	2.024 (51.41)
34					32	1.437 (36.50)	1.875 (47.63)	1	2.344 (59.54)	2.600 (66.04)
35			48		16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	2.000 (50.80)
36					24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	2.024 (51.41)
37					32	1.437 (36.50)	1.875 (47.63)	1	2.344 (59.54)	2.600 (66.04)
38	61	N/A	12		.500 (12.70)	.750 (19.05)	1	2.450 (62.23)	1.916 (48.67)	
39			20		.875 (22.23)	1.184 (30.07)	1	2.093 (53.16)	2.230 (56.64)	
40	19	16	16, 16S	16	10	.350 (8.89)	.625 (15.88)	1	2.110 (53.59)	1.844 (46.84)
41	27	18	18	18	4	.125 (3.18)	.312 (7.92)	1	2.300 (58.42)	1.544 (39.22)
42					6	.250 (6.35)	.437 (11.10)	1	2.300 (58.42)	1.544 (39.22)
43	37	20	20	20	6	.250 (6.35)	.437 (11.10)	1	2.300 (58.42)	1.544 (39.22)
44	N/A	22	22	22	4	.125 (3.18)	.312 (7.92)	1	2.450 (62.23)	1.544 (39.22)
45					6	.250 (6.35)	.437 (11.10)	1	2.450 (62.23)	1.544 (39.22)
46		24	24	24	24	10	.350 (8.89)	.625 (15.88)	1	2.450 (62.23)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	D DIA MAX	E ±.125	V THREAD CLASS 2A	F MAX	G DIA MAX	H MAX
32	2.969 (75.41)	2.031 (51.59)	1.437-18 UNEF	6.08 (154.43)	—	6.61 (167.89)
33	2.969 (75.41)	2.031 (51.59)	2.000-18 UNS	6.31 (160.27)	—	6.84 (173.74)
34	2.969 (75.41)	2.031 (51.59)	2.500-16 UN	6.70 (170.18)	—	7.23 (183.64)
35	3.219 (81.76)	2.031 (51.59)	1.437-18 UNEF	6.08 (154.43)	—	6.61 (167.89)
36	3.219 (81.76)	2.031 (51.59)	2.000-18 UNS	6.31 (160.27)	—	6.84 (173.74)
37	3.219 (81.76)	2.031 (51.59)	2.500-16 UN	6.70 (170.18)	—	7.23 (183.64)
38	1.653 (41.99)	1.063 (27.00)	1.1875-18 UNEF	4.81 (122.17)	—	5.18 (131.57)
39	1.653 (41.99)	1.063 (27.00)	1.750-18 UNS	4.98 (126.49)	—	5.35 (135.89)
40	1.112 (28.24)	.781 (19.84)	1.000-20 UNEF	4.16 (105.66)	—	4.53 (115.06)
41	1.218 (30.94)	.968 (24.59)	.625-24 UNEF	4.13 (104.90)	—	4.50 (114.30)
42	1.218 (30.94)	.968 (24.59)	.750-20 UNEF	4.20 (106.68)	—	4.57 (116.08)
43	1.345 (34.16)	.968 (24.59)	.750-20 UNEF	4.20 (106.68)	—	4.57 (116.08)
44	1.468 (37.29)	1.063 (27.00)	.625-24 UNEF	4.34 (110.24)	—	4.71 (119.63)
45	1.468 (37.29)	1.063 (27.00)	.750-20 UNEF	4.40 (111.76)	—	4.77 (121.16)
46	1.593 (40.46)	1.063 (27.00)	1.000-20 UNEF	4.68 (118.87)	—	5.05 (128.27)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP	MIL-DTL-83723 SERIES III		WIRE BUNDLE ACCOMMODATION RANGE				
						MIN	MAX			
47	N/A	N/A	36	N/A	12	.500 (12.70)	.750 (19.05)	1	2.690 (68.33)	1.916 (48.67)
48			40		12	.500 (12.70)	.750 (19.05)	1	2.690 (68.33)	1.916 (48.67)
49		10	10S, 10SL	10	6	.250 (6.35)	.437 (11.10)	2	1.910 (48.51)	1.544 (39.22)
50	12	14	14, 14S	14	12	.500 (12.70)	.750 (19.05)	2	2.300 (58.42)	1.916 (48.67)
51	19	16	16, 16S	16	16	.625 (15.88)	.937 (23.80)	2	2.450 (62.23)	2.000 (50.80)
52	27	18	18	18	12	.500 (12.70)	.750 (19.05)	1	2.300 (58.42)	1.916 (48.67)
53	61	N/A	N/A	N/A	16	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	2.000 (50.80)
54	37	20	20	20	12	.500 (12.70)	.750 (19.05)	1	2.300 (58.42)	1.916 (48.67)
55					20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	2.230 (56.64)
56	N/A	22	22	22	10	.350 (8.89)	.625 (15.88)	1	2.450 (62.23)	1.844 (46.84)
57					16	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	2.000 (50.80)
58					20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	2.230 (56.64)
59					16	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	2.000 (50.80)
60		N/A	28	N/A	12	.500 (12.70)	.750 (19.05)	1	2.500 (63.50)	1.916 (48.67)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	D DIA MAX	E ±.125	V THREAD CLASS 2A	F MAX	G DIA MAX	H MAX
47	2.469 (62.71)	1.281 (32.54)	1.1875-18 UNEF	5.20 (132.08)	—	5.73 (145.54)
48	2.719 (69.06)	2.031 (51.59)	1.1875-18 UNEF	5.95 (151.13)	—	6.48 (164.59)
49	.734 (18.64)	1.375 (34.93)	.750-20 UNEF	4.33 (109.98)	.858 (21.79)	4.70 (119.38)
50	.984 (24.99)	1.717 (43.61)	1.1875-18 UNEF	5.36 (136.14)	1.218 (30.94)	5.73 (145.54)
51	1.112 (28.24)	1.812 (46.02)	1.4375-18 UNEF	5.70 (144.78)	1.468 (37.29)	6.07 (154.18)
52	1.218 (30.94)	.968 (24.59)	1.1875-18 UNEF	4.61 (117.09)	—	4.98 (126.49)
53	1.653 (41.99)	1.063 (27.00)	1.4375-18 UNEF	4.95 (125.73)	—	5.32 (135.13)
54	1.345 (34.16)	.968 (24.59)	1.1875-18 UNEF	4.61 (117.09)	—	4.98 (126.49)
55	1.345 (34.16)	1.963 (49.86)	1.750-18 UNS	6.14 (155.96)	1.969 (50.01)	6.51 (165.35)
56	1.468 (37.29)	1.063 (27.00)	1.000-20 UNEF	4.68 (118.87)	—	5.05 (128.27)
57	1.468 (37.29)	1.063 (27.00)	1.4375-18 UNEF	4.95 (125.73)	—	5.32 (135.13)
58	1.468 (37.29)	1.936 (49.17)	1.750-18 UNS	6.14 (155.96)	1.969 (50.01)	6.51 (165.35)
59	1.593 (40.46)	1.063 (27.00)	1.4375-18 UNEF	4.95 (125.73)	—	5.32 (135.13)
60	1.969 (50.01)	1.188 (30.18)	1.1875-18 UNEF	4.97 (126.24)	—	5.50 (139.70)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF	
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP	MIL-DTL-83723 SERIES III		WIRE BUNDLE ACCOMMODATION RANGE					
						MIN	MAX				
61	N/A	N/A	28	N/A	20	.875 (22.23)	1.250 (31.75)	1	2.500 (63.50)	2.230 (56.64)	
62			32		24	1.000 (25.40)	1.375 (34.93)	1	2.600 (66.04)	2.024 (51.41)	
63			36		20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	2.230 (56.64)	
64					28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	2.550 (64.77)	
65			40		20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	2.230 (56.64)	
66					28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	2.550 (64.77)	
67			44		20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	2.230 (56.64)	
68					28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	2.550 (64.77)	
69			48		20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	2.230 (56.64)	
70					28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	2.550 (64.77)	
71	7	12	12, 12S	12	10	.350 (8.89)	.625 (15.88)	2	2.110 (53.59)	1.844 (46.84)	
72	27	18	18	18	16	.625 (15.88)	.937 (23.80)	2	2.450 (62.23)	2.000 (50.80)	
73	N/A	24	24	24	20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	2.230 (56.64)	
74	12	14	14, 14S	14	4	.125 (3.18)	.312 (7.92)	1	2.000 (50.80)	1.544 (39.22)	
75	19	16	16, 16S	16	4	.125 (3.18)	.312 (7.92)	1	2.110 (53.59)	1.544 (39.22)	

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	D DIA MAX	E ±.125	V THREAD CLASS 2A	F MAX	G DIA MAX	H MAX
61	1.969 (50.01)	1.188 (30.18)	1.750-18 UNS	5.39 (136.91)	—	5.92 (150.37)
62	2.219 (56.36)	1.250 (31.75)	2.000-18 UNS	5.47 (138.94)	—	6.00 (152.40)
63	2.469 (62.71)	1.281 (32.54)	1.750-18 UNS	5.62 (142.75)	—	6.15 (156.21)
64	2.469 (62.71)	1.281 (32.54)	2.250-16 UN	6.08 (154.43)	—	6.61 (167.89)
65	2.719 (69.06)	2.031 (51.59)	1.750-18 UNS	6.37 (161.80)	—	6.90 (175.26)
66	2.719 (69.06)	2.031 (51.59)	2.250-16 UN	6.83 (173.48)	—	7.36 (186.94)
67	2.969 (75.41)	2.031 (51.59)	1.750-18 UNS	6.37 (161.80)	—	6.90 (175.26)
68	2.969 (75.41)	2.031 (51.59)	2.250-16 UN	6.83 (173.48)	—	7.36 (186.94)
69	3.219 (81.76)	2.031 (51.59)	1.750-18 UNS	6.37 (161.80)	—	6.90 (175.26)
70	3.219 (81.76)	2.031 (51.59)	2.250-16 UN	6.83 (173.48)	—	7.36 (186.94)
71	.858 (21.79)	1.529 (38.84)	1.000-20 UNEF	4.90 (124.46)	1.112 (28.24)	5.27 (133.86)
72	1.218 (30.94)	1.812 (46.02)	1.4375-18 UNEF	5.69 (144.53)	1.468 (37.29)	6.06 (153.92)
73	1.593 (40.46)	1.936 (49.17)	1.750-18 UNS	6.13 (155.70)	1.969 (50.01)	6.50 (165.10)
74	.984 (24.99)	.688 (17.48)	.625-24 UNEF	3.64 (92.46)	—	4.01 (101.85)
75	1.112 (28.24)	.781 (19.84)	.625-24 UNEF	3.81 (96.77)	—	4.18 (106.17)

NOTES:

- DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING.
- METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
- MILLIMETERS ARE IN PARENTHESES.
- UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.005 (.13 MM) FOR THREE PLACE DECIMALS AND ±.02 (.51 MM) FOR TWO PLACE DECIMALS.
- LOOSELY ASSEMBLED IS DEFINED AS THE AS85049/42 CLAMP TIGHTENED TO THE AS85049/6 CONNECTOR ACCESSORY BODY A MINIMUM OF TWO FULL THREAD LENGTHS.
- "WIRE BUNDLE ACCOMMODATION RANGE" IS DEFINED AS THE ENVELOPE AREA FOR THE WIRE BUNDLE. THIS DIMENSION IS NOT MEANT TO DEFINE THE CLAMP HARDWARE LIMITS.

REQUIREMENTS:

- DESIGN AND CONSTRUCTION:
 - DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.
 - INTERFACE DIMENSIONS SHALL CONFORM TO SAE AS85049 FIGURE 4 OR 4A.
 - FIGURE 1 CONSISTS OF A COUPLING NUT AND FOLLOWER. THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE FOLLOWER.