

REV.  
B

RATIONALE

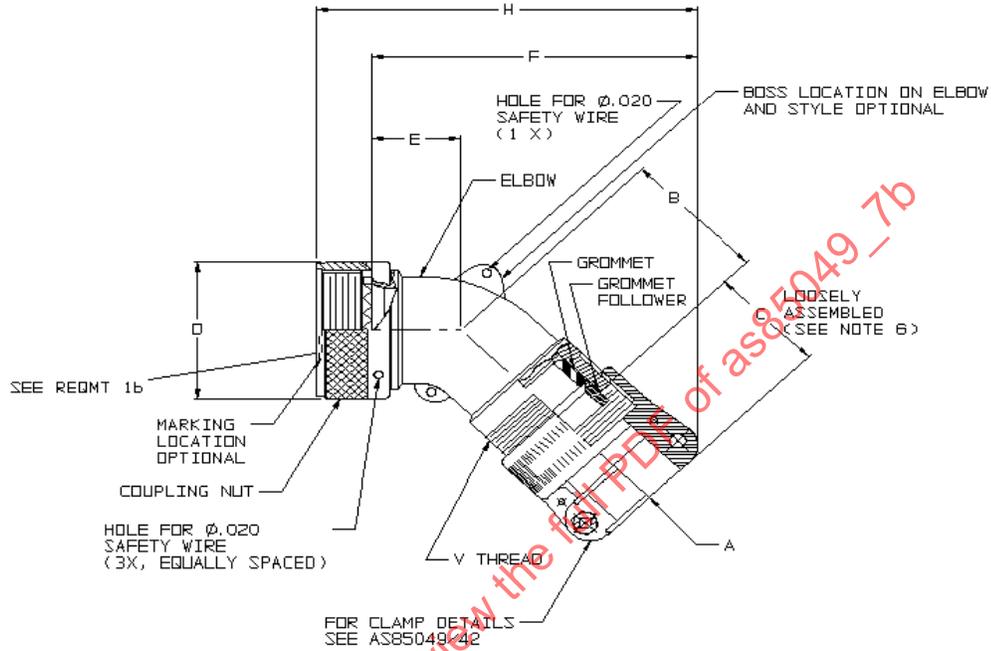
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SAE AS85049/7

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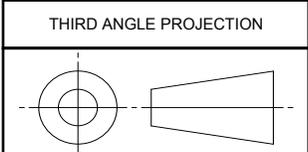


STYLE 1

FIGURE 1 - CONFIGURATION AND DIMENSIONS

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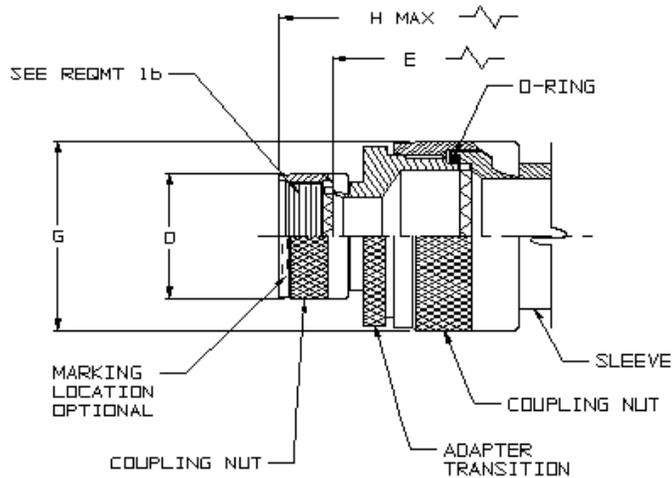
**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

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

**SAE AS85049/7**  
SHEET 1 OF 9

**REV. B**



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)	1.027 (26.09)
2					6	.250 (6.35)	.437 (11.10)	2	1.910 (48.51)	1.027 (26.09)
3	N/A	8	8S	8	4	.125 (3.18)	.250 (6.35)	1	1.182 (30.02)	1.027 (26.09)
4					4	.125 (3.18)	.312 (7.92)	1	1.850 (46.99)	1.027 (26.09)
5		10	10S, 10SL	10	6	.250 (6.35)	.375 (9.53)	1	1.245 (31.62)	1.027 (26.09)
6					4	.125 (3.18)	.312 (7.92)	1	1.910 (48.51)	1.027 (26.09)
7	7	12	12, 12S	12	6	.250 (6.35)	.437 (11.10)	1	1.910 (48.51)	1.027 (26.09)
8					10	.350 (8.89)	.500 (12.70)	1	1.910 (48.51)	1.027 (26.09)
9					6	.250 (6.35)	.437 (11.10)	1	2.000 (50.80)	1.027 (26.09)
10	12	14	14, 14S	14	10	.350 (8.89)	.575 (14.61)	1	1.655 (42.04)	1.027 (26.09)
11					6	.250 (6.35)	.437 (11.10)	1	2.110 (53.59)	1.027 (26.09)
12	19	16	16, 16S	16	12	.500 (12.70)	.700 (17.78)	1	1.750 (44.45)	1.059 (26.90)
13					10	.350 (8.89)	.625 (15.88)	1	2.300 (58.42)	1.027 (26.09)
14	27	18	18	18	16	.625 (15.88)	.779 (19.79)	1	1.938 (49.23)	1.156 (29.36)
15					10	.350 (8.89)	.625 (15.88)	1	2.300 (58.42)	1.027 (26.09)
16	37	20	20	20	16	.625 (15.88)	.904 (22.96)	1	1.938 (49.23)	1.156 (29.36)

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)	1.059 (26.90)	
18					20	.875 (22.23)	1.029 (26.14)	1	2.093 (53.16)	1.375 (34.93)	
19	N/A	24	24	24	12	.500 (12.70)	.750 (19.05)	1	2.450 (62.23)	1.059 (26.90)	
20					20	.875 (22.23)	1.144 (29.06)	1	2.093 (53.16)	1.375 (34.93)	
21	N/A	N/A	28	N/A	16	.625 (15.88)	.937 (23.80)	1	2.500 (63.50)	1.156 (29.36)	
22					24	1.000 (25.40)	1.375 (34.93)	1	2.156 (54.76)	1.500 (38.10)	
23					32	16	.625 (15.88)	.937 (23.80)	1	2.600 (66.04)	1.156 (29.36)
24						20	.875 (22.23)	1.250 (31.75)	1	2.600 (66.04)	1.375 (34.93)
25						28	1.250 (31.75)	1.625 (41.28)	1	2.250 (57.15)	1.781 (45.24)
26			36		16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	1.156 (29.36)	
27					24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	1.500 (38.10)	
28					32	1.437 (36.50)	1.840 (46.74)	1	2.344 (59.54)	1.830 (46.48)	
29					40	16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	1.156 (29.36)
30						24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	1.500 (38.10)
31	32	1.437 (36.50)	1.875 (47.63)	1		2.344 (59.54)	1.830 (46.48)				

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)	1.156 (29.36)		
33					24	1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	1.500 (38.10)		
34					32	1.437 (36.50)	1.875 (47.63)	1	2.344 (59.54)	1.830 (46.48)		
35					16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	1.156 (29.36)		
36			24		1.000 (25.40)	1.375 (34.93)	1	2.690 (68.33)	1.500 (38.10)			
37			32		1.437 (36.50)	1.875 (47.63)	1	2.344 (59.54)	1.830 (46.48)			
38			61		N/A	N/A	12	.500 (12.70)	.750 (19.05)	1	2.450 (62.23)	1.059 (26.90)
39							20	.875 (22.23)	1.184 (30.07)	1	2.093 (53.16)	1.375 (34.93)
40	19	16	16, 16S	16	10	.350 ( 8.89)	.625 (15.88)	1	2.110 (53.59)	1.027 (26.09)		
41	27	18	18	18	4	.125 ( 3.18)	.312 ( 7.92)	1	2.300 (58.42)	1.027 (26.09)		
42					6	.250 ( 6.35)	.437 (11.10)	1	2.300 (58.42)	1.027 (26.09)		
43	37	20	20	20	6	.250 ( 6.35)	.437 (11.10)	1	2.300 (58.42)	1.027 (26.09)		
44	N/A	22	22	22	4	.125 ( 3.18)	.312 ( 7.92)	1	2.450 (62.23)	1.027 (26.09)		
45					6	.250 ( 6.35)	.437 (11.10)	1	2.450 (62.23)	1.027 (26.09)		
46					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)	1.059 (26.90)
48			40		12	.500 (12.70)	.750 (19.05)	1	2.690 (68.33)	1.059 (26.90)
49		10	10S, 10SL	10	6	.250 (6.35)	.437 (11.10)	2	1.910 (48.51)	1.027 (26.09)
50	12	14	14, 14S	14	12	.500 (12.70)	.750 (19.05)	2	2.300 (58.42)	1.059 (26.90)
51	19	16	16, 16S	16	16	.625 (15.88)	.937 (23.80)	2	2.450 (62.23)	1.156 (29.36)
52	27	18	18	18	12	.500 (12.70)	.750 (19.05)	1	2.300 (58.42)	1.059 (26.90)
53	61	N/A	N/A	N/A	16	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	1.156 (29.36)
54	37	20	20	20	12	.500 (12.70)	.750 (19.05)	1	2.300 (58.42)	1.059 (26.90)
55					20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	1.375 (34.93)
56	N/A	22	22	22	10	.350 (8.89)	.625 (15.88)	1	2.450 (62.23)	1.027 (26.09)
57					16	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	1.156 (29.36)
58					20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	1.375 (34.93)
59					24	.625 (15.88)	.937 (23.80)	1	2.450 (62.23)	1.156 (29.36)
60	N/A	28	N/A	N/A	12	.500 (12.70)	.750 (19.05)	1	2.500 (63.50)	1.059 (26.90)

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)	1.375 (34.93)		
62			32		24	1.000 (25.40)	1.375 (34.93)	1	2.600 (66.04)	1.500 (38.10)		
63			36		20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	1.375 (34.93)		
64					28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	1.781 (45.24)		
65			40		N/A	20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	1.375 (34.93)	
66						28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	1.781 (45.24)	
67						44	20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	1.375 (34.93)
68							28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	1.781 (45.24)
69						48	20	.875 (22.23)	1.250 (31.75)	1	2.690 (68.33)	1.375 (34.93)
70							28	1.250 (31.75)	1.625 (41.28)	1	2.690 (68.33)	1.781 (45.24)
71	7	12	12, 12S	12	10	.350 ( 8.89)	.625 (15.88)	2	2.110 (53.59)	1.027 (26.09)		
72	27	18	18	18	16	.625 (15.88)	.937 (23.80)	2	2.450 (62.23)	1.156 (29.36)		
73	N/A	24	24	24	20	.875 (22.23)	1.250 (31.75)	2	2.500 (63.50)	1.375 (34.93)		
74	12	14	14, 14S	14	4	.125 ( 3.18)	.312 ( 7.92)	1	2.000 (50.80)	1.027 (26.09)		
75	19	16	16, 16S	16	4	.125 ( 3.18)	.312 ( 7.92)	1	2.110 (53.59)	1.027 (26.09)		

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:

1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
3. MILLIMETERS ARE IN PARENTHESES.
4. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.005 FOR THREE PLACE DECIMALS AND ±.02 FOR TWO PLACE DECIMALS.
5. LOOSELY ASSEMBLED IS DEFINED AS THE AS85049/42 CLAMP TIGHTENED TO THE AS85049/7 CONNECTOR ACCESSORY BODY A MINIMUM OF TWO FULL THREAD LENGTHS.
6. "WIRE BUNDLE ACCOMMODATION RANGE" IS DEFINED AS THE ENVELOPE AREA OF THE WIRE BUNDLE. THIS DIMENSION IS NOT MEANT TO DEFINE CLAMP HARDWARE LIMITS.

REQUIREMENTS:

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