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FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO ADD AS95234 CONNECTORS TO THE DOCUMENT TITLE AND TABLE 1, TO MODIFY STYLE 2 FIGURE TO SHOW ENTIRE ACCESSORY/DIMENSIONS AND TO ADD SAFETY WIRE HOLES, TO MODIFY STYLE 1 FIGURE TO IDENTIFY UPPER BOSS AND ADD LOCATION/STYLE OPTIONAL, TO UPDATE FINISH RESTRICTION WORDING, AND TO UPDATE DOCUMENT FORMAT TO LATEST SAE GUIDELINES.

NOTICE

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

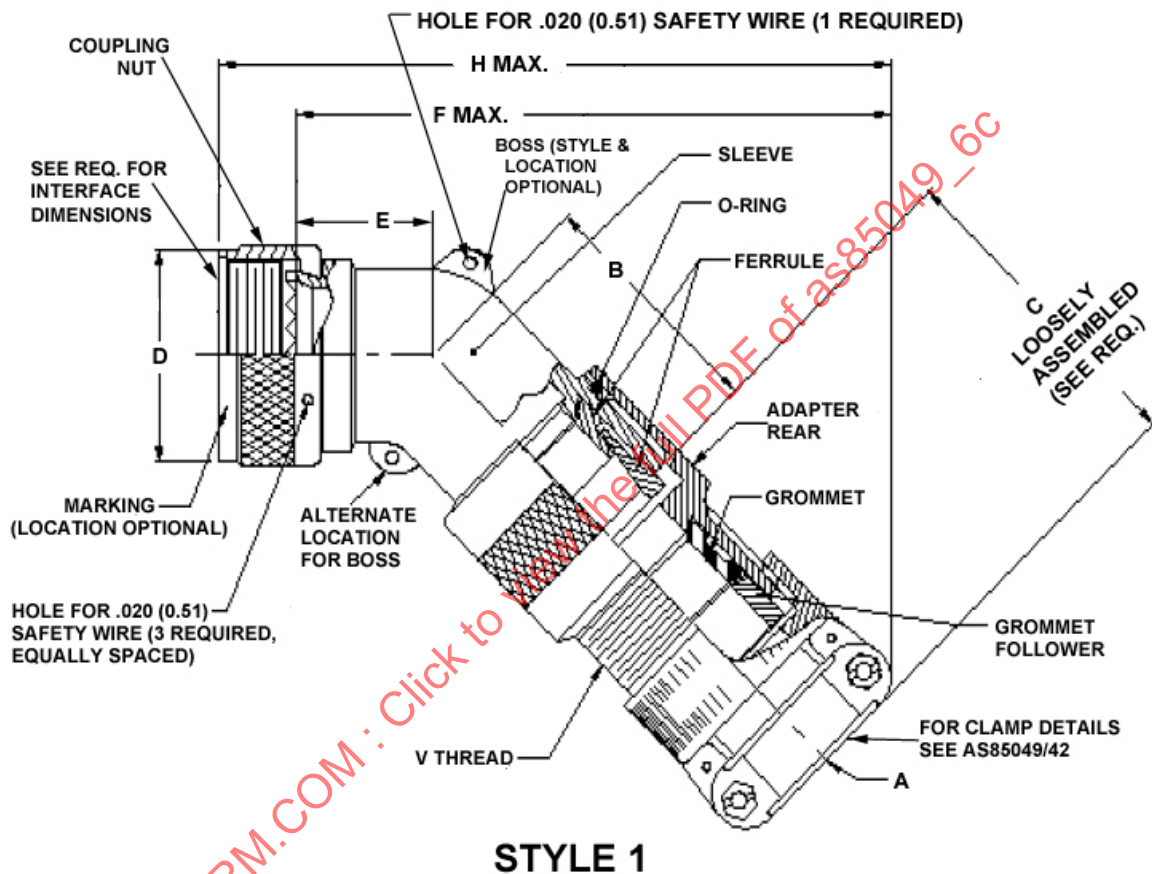
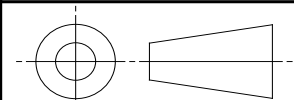


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/6C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



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(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, CABLE SEALING, 45°, SHIELD TERMINATION, CATEGORY 1A (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

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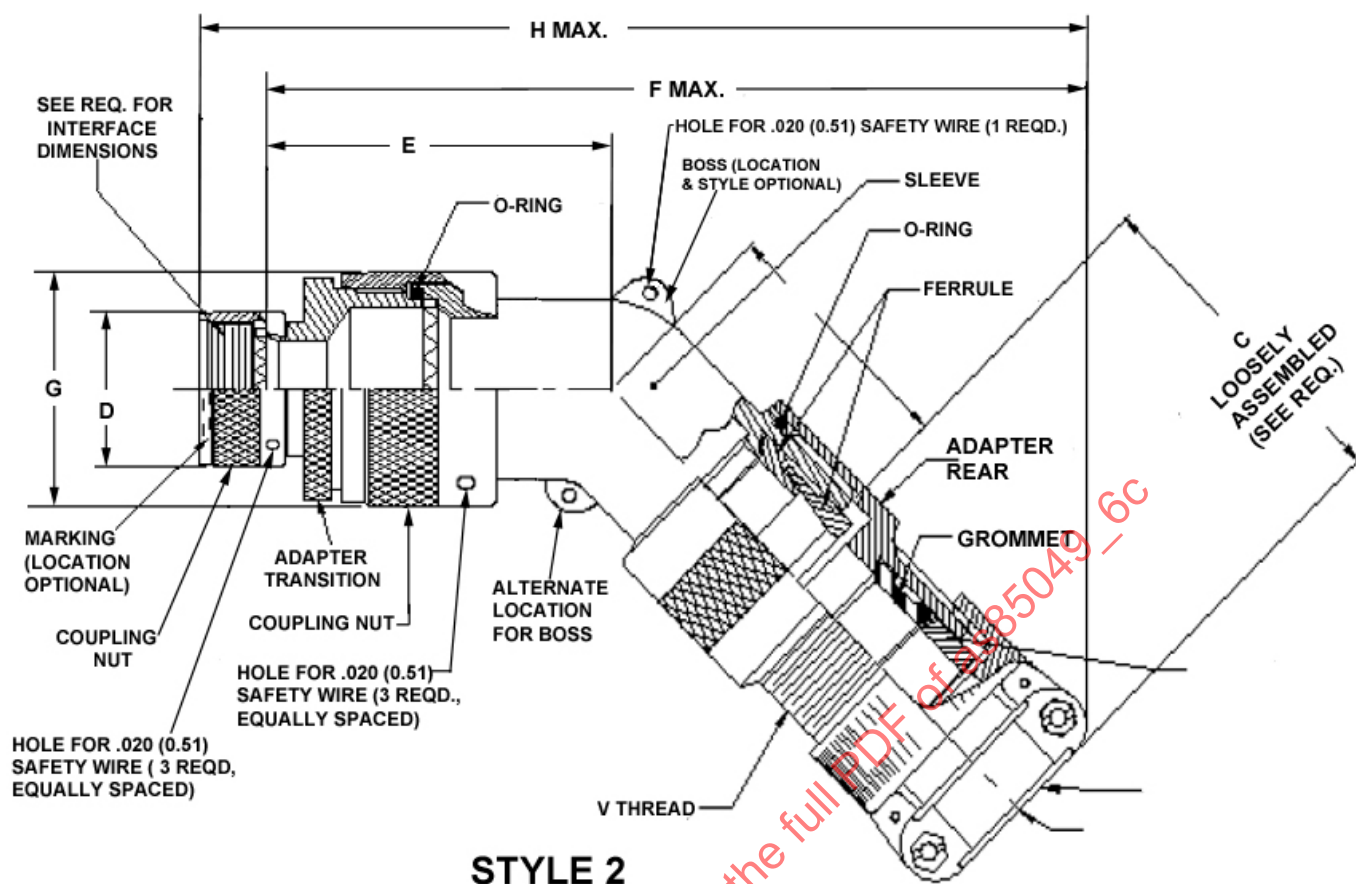


FIGURE 1A - CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - FIGURE 1 DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE DESIGN REQ.)		STYLE	B ±.125		C REF.	
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	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		4	.125 (3.18)	.312 (7.92)	1	1.910 (48.51)	1.544 (39.22)					
7	7	12	12, 12S	12	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)		



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TABLE 1 - FIGURE 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 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE DESIGN REQ.)		STYLE	B ±.125	C REF.
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	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)
20		20	.875 (22.23)	1.144 (29.06)				1	2.093 (53.16)	2.230 (56.64)
21		28	28	N/A				16	.625 (15.88)	.937 (23.80)
22					24	1.000 (25.40)	1.375 (34.93)	1	2.156 (54.76)	2.024 (51.41)
23					32	32	N/A	16	.625 (15.88)	.937 (23.80)
24		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		36	36	N/A	16	.625 (15.88)	.937 (23.80)	1	2.690 (68.33)	2.000 (50.80)
27					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	40	N/A	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 - FIGURE 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)



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TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE DESIGN REQ.)				STYLE	B ±.125	C REF.		
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	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			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	61	N/A	48	N/A	32	1.437	(36.50)	1.875	(47.63)	1	2.344	(59.54)	2.600	(66.04)
38					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	10	.350	(8.89)	.625	(15.88)	1	2.450	(62.23)	1.844

TABLE 1 - FIGURE 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 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE DESIGN REQ.)				STYLE	B ±.125	C REF.		
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	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		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					10	.350	(8.89)	.625	(15.88)	1	2.450	(62.23)	1.844	(46.84)
57	N/A	22	22	22	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					12	.500	(12.70)	.750	(19.05)	1	2.500	(63.50)	1.916	(48.67)



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TABLE 1 - FIGURE 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)				B ±.125	C REF.	
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL- 83723 SERIES III		WIRE BUNDLE ACCOMMODATION RANGE		STYLE				
						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)



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, CABLE SEALING, 45°, SHIELD TERMINATION, CATEGORY 1A (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/6
SHEET 5 OF 7

REV.
C