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AS85049™/23

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, EXPAND STYLE 2 PART AND INCLUDE SAFETY WIRE HOLES AND REMOVE REFERENCE TO O-RING, TO CHANGE THE MILITARY RESTRICTION WORDING, AND TO UPDATE DOCUMENT FORMAT TO LATEST SAE GUIDELINES.

NOTICE

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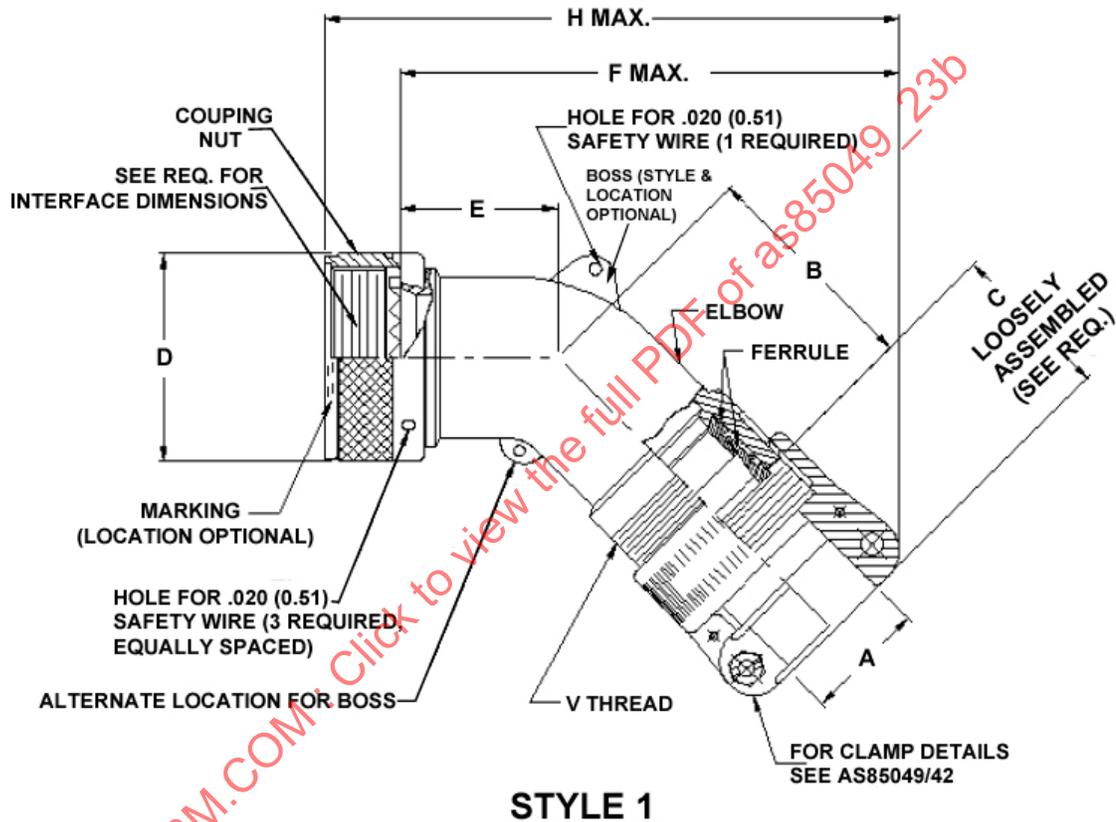
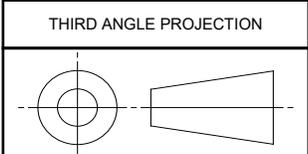


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

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CUSTODIAN: AE-8/AE-8C1

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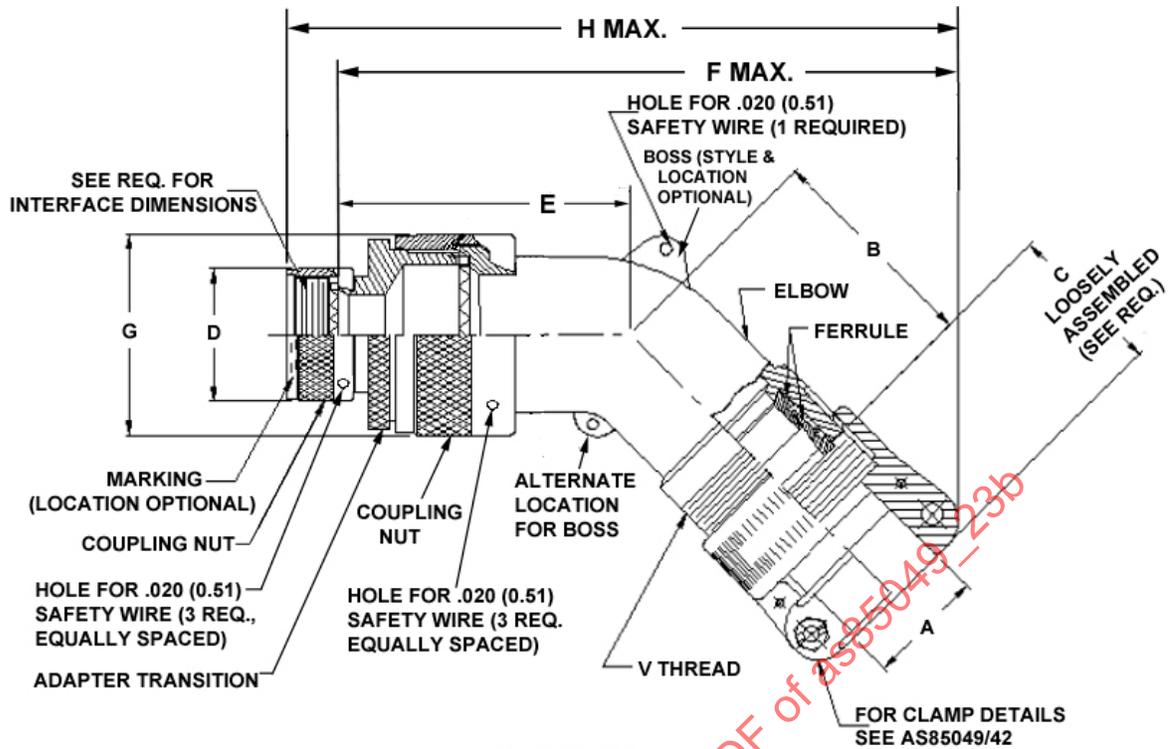
(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, 45°, SHIELD TERMINATION, CATEGORY 3A (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

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ISSUED 1998-08 REVISED 2016-07 REAFFIRMED 2021-03



STYLE 2

FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - FIGURE 1 DIMENSIONS

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE REQ.)		STYLE	B DIM. ±.125 (±3.2)	C DIM. (REF.)	D DIA. MAX.
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN.	MAX.				
1	3	8	8S	8	4	.125 (3.2)	.250 (6.4)	1	1.790 (45.5)	1.027 (26.1)	.669 (17.0)
2					6	.250 (6.4)	.437 (11.1)	2	1.910 (48.5)	1.027 (26.1)	.669 (17.0)
3	7	10	10S, 10SL	10	4	.125 (3.2)	.250 (6.4)	1	1.182 (30.0)	1.027 (26.1)	.617 (15.7)
4					4	.125 (3.2)	.312 (7.9)	1	1.850 (47.0)	1.027 (26.1)	.734 (18.6)
5	7	12	12, 12S	12	6	.250 (6.4)	.375 (9.5)	1	1.245 (31.6)	1.027 (26.1)	.734 (18.6)
6					4	.125 (3.2)	.312 (7.9)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
7	12	14	14, 14S	14	6	.250 (6.4)	.437 (11.1)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
8					10	.350 (8.9)	.500 (12.7)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
9	19	16	16, 16S	16	6	.250 (6.4)	.437 (11.1)	1	2.000 (50.8)	1.027 (26.1)	.984 (25.0)
10					10	.350 (8.9)	.575 (14.6)	1	1.655 (42.0)	1.027 (26.1)	.984 (25.0)
11	27	18	18	18	6	.250 (6.4)	.437 (11.1)	1	2.110 (53.6)	1.027 (26.1)	1.112 (28.2)
12					12	.500 (12.7)	.700 (17.8)	1	1.750 (44.5)	1.059 (26.9)	1.112 (28.2)
13	14	18	18	18	10	.350 (8.9)	.625 (15.9)	1	2.300 (58.4)	1.027 (26.1)	1.218 (30.9)
14					16	.625 (15.9)	.779 (19.8)	1	1.938 (49.2)	1.156 (29.4)	1.218 (30.9)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. ±.125 (±3.2)	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
1	.561 (14.2)	.625-24 UNEF	3.00 (76.2)	-	3.39 (86.1)
2	1.375 (34.9)	.750-20 UNEF	3.97 (100.8)	.858 (21.8)	4.36 (110.7)
3	.500 (12.7)	.625-24 UNEF	2.52 (64.0)	-	2.91 (73.9)
4	.561 (14.2)	.625-24 UNEF	3.05 (77.5)	-	3.44 (87.4)
5	.561 (14.2)	.750-20 UNEF	2.69 (68.3)	-	3.08 (78.2)
6	.625 (15.9)	.625-24 UNEF	3.16 (80.3)	-	3.55 (90.2)
7	.625 (15.9)	.750-20 UNEF	3.22 (81.8)	-	3.61 (91.7)
8	.625 (15.9)	1.000-20 UNEF	3.29 (83.6)	-	3.68 (93.5)
9	.688 (17.5)	.750-20 UNEF	3.35 (85.1)	-	3.74 (95.0)
10	.688 (17.5)	1.000-20 UNEF	3.17 (80.5)	-	3.56 (90.4)
11	.781 (19.8)	.750-20 UNEF	3.52 (89.4)	-	3.91 (99.3)
12	.781 (19.8)	1.187-18 UNEF	3.43 (87.1)	-	3.82 (97.0)
13	.968 (24.6)	1.000-20 UNEF	3.91 (99.3)	-	4.30 (109.2)
14	.968 (24.6)	1.437-18 UNEF	3.90 (99.1)	-	4.29 (109.0)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE REQ.)		STYLE	B DIM. ±.125 (±3.2)	C DIM. (REF.)	D DIA. MAX.			
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN.	MAX.							
15	X	X	X	X	10	.350 (8.9)	.625 (15.9)	1	2.300 (58.4)	1.027 (26.1)	1.345 (34.2)			
16					16	.625 (15.9)	.904 (23.0)	1	1.938 (49.2)	1.156 (29.4)	1.345 (34.2)			
17					22	.500 (12.7)	.750 (19.1)	1	2.450 (62.2)	1.059 (26.9)	1.468 (37.3)			
18					20	.875 (22.2)	1.029 (26.1)	1	2.093 (53.2)	1.375 (34.9)	1.468 (37.3)			
19					24	24	24	12	.500 (12.7)	.750 (19.1)	1	2.450 (62.2)	1.069 (27.2)	1.593 (40.5)
20								20	.875 (22.2)	1.144 (29.1)	1	2.093 (53.2)	1.375 (34.9)	1.593 (40.5)
21					28	28	28	16	.625 (15.9)	.937 (23.8)	1	2.500 (63.5)	1.156 (29.4)	1.969 (50.0)
22								24	1.000 (25.4)	1.375 (34.9)	1	2.156 (54.8)	1.500 (38.1)	1.969 (50.0)
23								16	.625 (15.9)	.937 (23.8)	1	2.600 (66.0)	1.156 (29.4)	2.219 (56.4)
24								20	.875 (22.2)	1.250 (31.8)	1	2.600 (66.0)	1.375 (34.9)	2.219 (56.4)
25								28	1.250 (31.8)	1.625 (41.3)	1	2.250 (57.2)	1.781 (45.2)	2.219 (56.4)
26								16	.625 (15.9)	.937 (23.8)	1	2.690 (68.3)	1.156 (29.4)	2.469 (62.7)
27								24	1.000 (25.4)	1.375 (34.9)	1	2.690 (68.3)	1.500 (38.1)	2.469 (62.7)
28								32	1.437 (36.5)	1.840 (46.7)	1	2.344 (59.5)	1.830 (46.5)	2.469 (62.7)

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TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. ±.125 (±3.2)	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
15	.968 (24.6)	1.000-20 UNEF	3.91 (99.3)	-	4.30 (109.2)
16	.968 (24.6)	1.437-18 UNEF	3.90 (99.1)	-	4.29 (109.0)
17	1.063 (27.0)	1.187-18 UNEF	4.21 (106.9)	-	4.60 (116.8)
18	1.063 (27.0)	1.750-18 UNS	4.38 (111.3)	-	4.77 (121.2)
19	1.063 (27.0)	1.187-18 UNEF	4.21 (106.9)	-	4.60 (116.8)
20	1.063 (27.0)	1.750-18 UNS	4.38 (111.3)	-	4.77 (121.2)
21	1.188 (30.2)	1.437-18 UNEF	4.52 (114.8)	-	5.05 (128.3)
22	1.188 (30.2)	2.000-18 UNS	4.72 (119.9)	-	5.23 (132.8)
23	1.250 (31.8)	1.437-18 UNEF	4.65 (118.1)	-	5.18 (131.6)
24	1.250 (31.8)	1.750-18 UNS	4.92 (125.0)	-	5.45 (138.4)
25	1.250 (31.8)	2.250-16 UN	5.19 (131.8)	-	5.72 (145.3)
26	1.281 (32.5)	1.437-18 UNEF	4.74 (120.4)	-	5.27 (133.9)
27	1.281 (32.5)	2.000-18 UNS	5.19 (131.8)	-	5.72 (145.3)
28	1.281 (32.5)	2.500-16 UN	5.41 (137.4)	-	5.94 (150.9)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE NOTE 6)		STYLE	B DIM. ±.125 (±3.2)	C DIM. (REF.)	D DIA. MAX.
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN.	MAX.				
29					16	.625 (15.9)	.937 (23.8)	1	2.690 (68.3)	1.156 (29.4)	2.719 (69.1)
30			40		24	1.000 (25.4)	1.375 (34.9)	1	2.690 (68.3)	1.500 (38.1)	2.719 (69.1)
31					32	1.437 (36.5)	1.875 (47.6)	1	2.344 (59.5)	1.830 (46.5)	2.719 (69.1)
32					16	.625 (15.9)	.937 (23.8)	1	2.690 (68.3)	1.156 (29.4)	2.969 (75.4)
33			44		24	1.000 (25.4)	1.375 (34.9)	1	2.690 (68.3)	1.500 (38.1)	2.969 (75.4)
34					32	1.437 (36.5)	1.875 (47.6)	1	2.344 (59.5)	1.830 (46.5)	2.969 (75.4)
35					16	.625 (15.9)	.937 (23.8)	1	2.690 (68.3)	1.156 (29.4)	3.219 (81.8)
36			48		24	1.000 (25.4)	1.375 (34.9)	1	2.690 (68.3)	1.500 (38.1)	3.219 (81.8)
37					32	1.437 (36.5)	1.875 (47.6)	1	2.344 (59.5)	1.830 (46.5)	3.219 (81.8)
38					12	.500 (12.7)	.750 (19.1)	1	2.450 (62.2)	1.059 (26.9)	1.653 (42.0)
39	61				20	.875 (22.2)	1.184 (30.1)	1	2.093 (53.2)	1.375 (34.9)	1.653 (42.0)
40	19	16	16, 16S	16	10	.350 (8.9)	.625 (15.9)	1	2.110 (53.6)	1.027 (26.1)	1.112 (28.2)
41		18	18	18	4	.125 (3.2)	.312 (7.9)	1	2.300 (58.4)	1.027 (26.1)	1.218 (30.9)
42	27				6	.250 (6.4)	.437 (11.1)	1	2.300 (58.4)	1.027 (26.1)	1.218 (30.9)

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TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. ±.125 (±3.2)	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
29	2.031 (51.6)	1.437-18 UNEF	5.49 (139.4)	-	6.02 (152.9)
30	2.031 (51.6)	2.000-18 UNS	5.94 (150.9)	-	6.47 (164.3)
31	2.031 (51.6)	2.500-16 UN	6.16 (156.5)	-	6.69 (169.9)
32	2.031 (51.6)	1.437-18 UNEF	5.49 (139.4)	-	6.02 (152.9)
33	2.031 (51.6)	2.000-18 UNS	5.94 (150.9)	-	6.47 (164.3)
34	2.031 (51.6)	2.500-16 UN	6.16 (156.5)	-	6.69 (169.9)
35	2.031 (51.6)	1.437-18 UNEF	5.49 (139.4)	-	6.02 (152.9)
36	2.031 (51.6)	2.000-18 UNS	5.94 (150.9)	-	6.47 (164.3)
37	2.031 (51.6)	2.500-16 UN	6.16 (156.5)	-	6.69 (169.9)
38	1.063 (27.0)	1.187-18 UNEF	4.21 (106.9)	-	4.60 (116.8)
39	1.063 (27.0)	1.750-18 UNS	4.38 (111.3)	-	4.77 (121.2)
40	.781 (19.8)	1.000-20 UNEF	3.59 (91.2)	-	3.98 (101.1)
41	.968 (24.6)	.625-24 UNEF	3.80 (96.5)	-	4.19 (106.4)
42	.968 (24.6)	.750-20 UNEF	3.84 (97.5)	-	4.23 (107.4)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE NOTE 6)		STYLE	B DIM. ±.125 (±3.2)	C DIM. (REF.)	D DIA. MAX.
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL- 83723 SERIES III		MIN.	MAX.				
	43	37	20	20		20	6				
44	X	X	X	X	4	.125 (3.2)	.312 (7.9)	1	2.450 (62.2)	1.027 (26.1)	1.468 (37.3)
45					6	.250 (6.4)	.437 (11.1)	1	2.450 (62.2)	1.027 (26.1)	1.468 (37.3)
46					10	.350 (8.9)	.625 (15.9)	1	2.450 (62.2)	1.027 (26.1)	1.593 (40.5)
47					12	.500 (12.7)	.750 (19.1)	1	2.690 (68.3)	1.059 (26.9)	2.469 (62.7)
48					12	.500 (12.7)	.750 (19.1)	1	2.690 (68.3)	1.059 (26.9)	2.719 (69.1)
49	10	10S, 10SL	10	6	.250 (6.4)	.437 (11.1)	2	1.910 (48.5)	1.027 (26.1)	.734 (18.6)	
50	12	14	14, 14S	14	12	.500 (12.7)	.750 (19.1)	2	2.300 (58.4)	1.059 (26.9)	.984 (25.0)
51	19	16	16, 16S	16	16	.625 (15.9)	.937 (23.8)	2	2.450 (62.2)	1.156 (29.4)	1.112 (28.2)
52	27	18	18	18	12	.500 (12.7)	.750 (19.1)	1	2.300 (58.4)	1.059 (26.9)	1.218 (30.9)
53	61	X	X	X	16	.625 (15.9)	.937 (23.8)	1	2.450 (62.2)	1.156 (29.4)	1.653 (42.0)
54	37	20	20	20	12	.500 (12.7)	.750 (19.1)	1	2.300 (58.4)	1.059 (26.9)	1.345 (34.2)
55					20	.875 (22.2)	1.250 (31.8)	2	2.500 (63.5)	1.375 (34.9)	1.345 (34.2)
56	X	22	22	22	10	.350 (8.9)	.625 (15.9)	1	2.450 (62.2)	1.027 (26.1)	1.468 (37.3)

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TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. ±.125 (±3.2)	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
43	.968 (24.6)	.750-20 UNEF	3.84 (97.5)	-	4.23 (107.4)
44	1.063 (27.0)	.625-24 UNEF	3.98 (101.1)	-	4.37 (111.0)
45	1.063 (27.0)	.750-20 UNEF	4.04 (102.6)	-	4.43 (112.5)
46	1.063 (27.0)	1.000-20 UNEF	4.11 (104.4)	-	4.50 (114.3)
47	1.281 (32.5)	1.187-18 UNEF	4.60 (116.8)	-	5.13 (130.3)
48	2.031 (51.6)	1.187-18 UNEF	5.35 (135.9)	-	5.88 (149.4)
49	1.375 (34.9)	.750-20 UNEF	3.97 (100.8)	.858 (21.8)	4.36 (110.7)
50	1.717 (43.6)	1.187-18 UNEF	4.76 (120.9)	1.218 (30.9)	5.15 (130.8)
51	1.812 (46.0)	1.437-18 UNEF	5.11 (129.8)	1.468 (37.3)	5.50 (139.7)
52	.968 (24.6)	1.187-18 UNEF	4.01 (101.9)	-	4.40 (111.8)
53	1.063 (27.0)	1.437-18 UNEF	4.36 (110.7)	-	4.75 (120.7)
54	.968 (24.6)	1.187-18 UNEF	4.01 (101.9)	-	4.40 (111.8)
55	1.936 (49.2)	1.750-18 UNS	5.54 (140.7)	1.969 (50.0)	5.93 (150.6)
56	1.063 (27.0)	1.000-20 UNEF	4.11 (104.4)	-	4.50 (114.3)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE NOTE 6)		STYLE	B DIM. ±.125 (±3.2)	C DIM. (REF.)	D DIA. MAX.
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN.	MAX.				
57		22	22	22	16	.625 (15.9)	.937 (23.8)	1	2.450 (62.2)	1.156 (29.4)	1.468 (37.3)
58					20	.875 (22.2)	1.250 (31.8)	2	2.500 (63.5)	1.375 (34.9)	1.468 (37.3)
59		24	24	24	16	.625 (15.9)	.937 (23.8)	1	2.450 (62.2)	1.156 (29.4)	1.593 (40.5)
60					12	.500 (12.7)	.750 (19.1)	1	2.500 (63.5)	1.059 (26.9)	1.969 (50.0)
61					20	.875 (22.2)	1.250 (31.8)	1	2.500 (63.5)	1.375 (34.9)	1.969 (50.0)
62					24	1.000 (25.4)	1.375 (34.9)	1	2.600 (66.0)	1.500 (38.1)	2.219 (56.4)
63					20	.875 (22.2)	1.250 (31.8)	1	2.690 (68.3)	1.375 (34.9)	2.469 (62.7)
64					28	1.250 (31.8)	1.625 (41.3)	1	2.690 (68.3)	1.781 (45.2)	2.469 (62.7)
65					20	.875 (22.2)	1.250 (31.8)	1	2.690 (68.3)	1.375 (34.9)	2.719 (69.1)
66					28	1.250 (31.8)	1.625 (41.3)	1	2.690 (68.3)	1.781 (45.2)	2.719 (69.1)
67					20	.875 (22.2)	1.250 (31.8)	1	2.690 (68.3)	1.375 (34.9)	2.969 (75.4)
68					28	1.250 (31.8)	1.625 (41.3)	1	2.690 (68.3)	1.781 (45.2)	2.969 (75.4)
69					20	.875 (22.2)	1.250 (31.8)	1	2.690 (68.3)	1.375 (34.9)	3.219 (81.8)
70					28	1.250 (31.8)	1.625 (41.3)	1	2.690 (68.3)	1.781 (45.2)	3.219 (81.8)

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TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. $\pm 0.125 (\pm 3.2)$	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
57	1.063 (27.0)	1.437-18 UNEF	4.36 (110.7)	-	4.75 (120.7)
58	1.936 (49.2)	1.750-18 UNS	5.54 (140.7)	1.969 (50.0)	5.93 (150.6)
59	1.063 (27.0)	1.437-18 UNEF	4.36 (110.7)	-	4.75 (120.7)
60	1.188 (30.2)	1.187-18 UNEF	4.37 (111.0)	-	4.90 (124.5)
61	1.188 (30.2)	1.750-18 UNS	4.79 (121.7)	-	5.32 (135.1)
62	1.250 (31.8)	2.000-18 UNS	5.10 (129.5)	-	5.63 (143.0)
63	1.281 (32.5)	1.750-18 UNS	5.02 (127.5)	-	5.55 (141.0)
64	1.281 (32.5)	2.250-16 UN	5.54 (140.7)	-	6.07 (154.2)
65	2.031 (51.6)	1.750-18 UNS	5.77 (146.6)	-	6.30 (160.0)
66	2.031 (51.6)	2.250-16 UN	6.29 (159.8)	-	6.82 (173.2)
67	2.031 (51.6)	1.750-18 UNS	5.77 (146.6)	-	6.30 (160.0)
68	2.031 (51.6)	2.250-16 UN	6.29 (159.8)	-	6.82 (173.2)
69	2.031 (51.6)	1.750-18 UNS	5.77 (146.6)	-	6.30 (160.0)
70	2.031 (51.6)	2.250-16 UN	6.29 (159.8)	-	6.82 (173.2)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE NOTE 6)		STYLE	B DIM. $\pm 0.125 (\pm 3.2)$	C DIM. (REF.)	D DIA. MAX.
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN.	MAX.				
71	7	12	12, 12S	12	10	.350 (8.9)	.625 (15.9)	2	2.110 (53.6)	1.027 (26.1)	.858 (21.8)
72	27	18	18	18	16	.625 (15.9)	.937 (23.8)	2	2.450 (62.2)	1.156 (29.4)	1.218 (30.9)
73		24	24	24	20	.875 (22.2)	1.250 (31.8)	2	2.500 (63.5)	1.375 (34.9)	1.593 (40.5)
74	12	14	14, 14S	14	4	.125 (3.2)	.312 (7.9)	1	2.000 (50.8)	1.027 (26.1)	.984 (25.0)
75	19	16	16, 16S	16	4	.125 (3.2)	.312 (7.9)	1	2.110 (53.6)	1.027 (26.1)	1.112 (28.2)

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NO.	E DIM. $\pm 0.125 (\pm 3.2)$	V THREAD CLASS 2A	F DIM. MAX.	G DIA. MAX.	H DIM. MAX.
71	1.529 (40.4)	1.000-20 UNEF	4.33 (110.0)	1.112 (28.2)	4.72 (119.9)
72	1.812 (46.0)	1.437-18 UNEF	5.10 (129.5)	1.468 (37.3)	5.49 (139.4)
73	1.936 (49.2)	1.750-18 UNS	5.53 (140.5)	1.969 (50.0)	5.92 (150.4)
74	.688 (17.5)	.625-24 UNEF	3.28 (83.3)	-	3.67 (93.2)
75	.781 (19.8)	.625-24 UNEF	3.45 (87.6)	-	3.84 (97.5)