

**REV.
A**

SAE AS85049/9

FEDERAL SUPPLY CLASS
5935

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THIRD ANGLE PROJECTION



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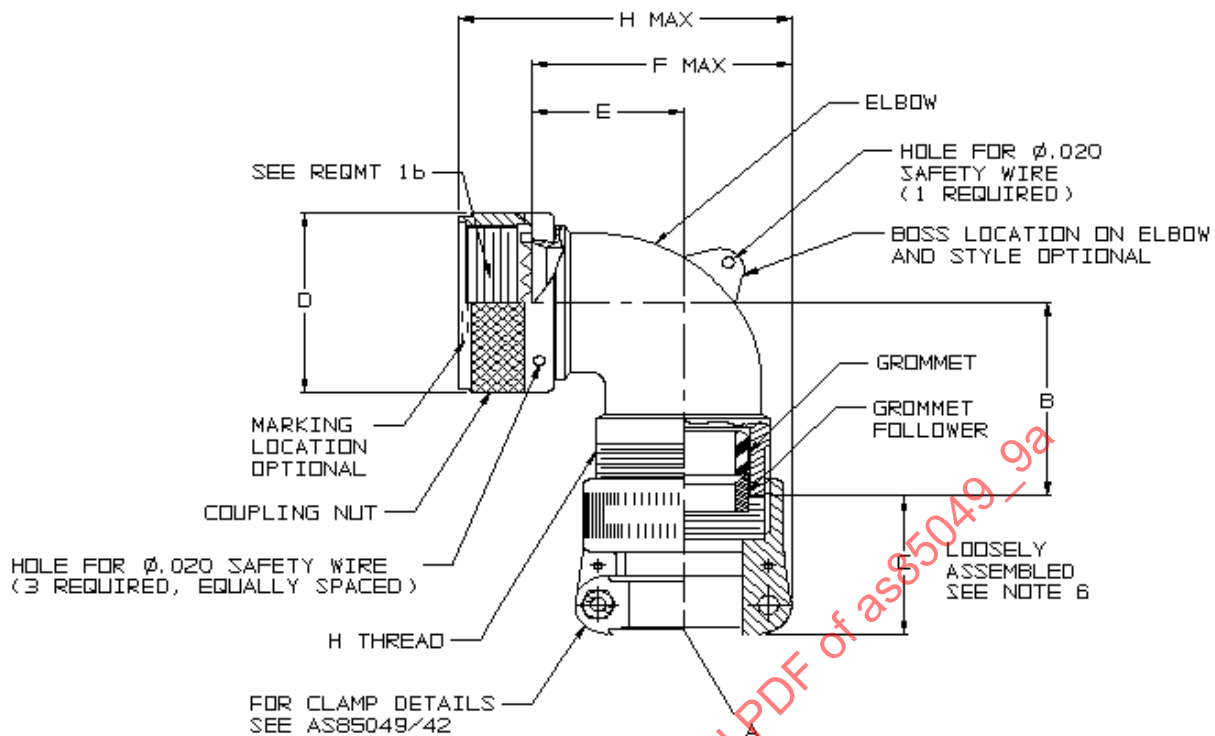
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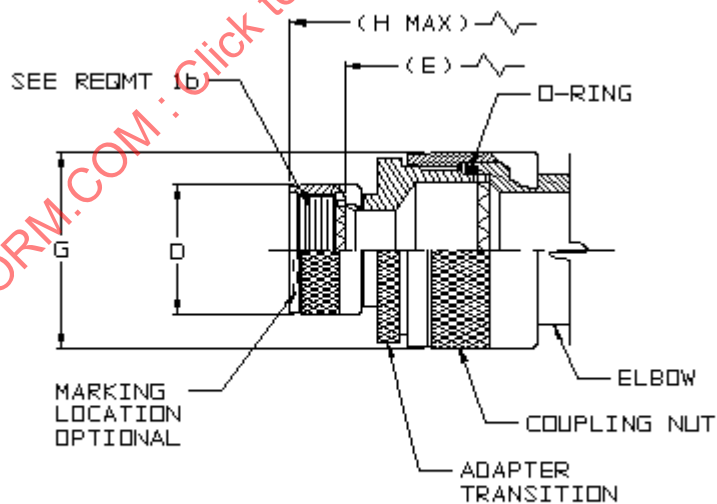
(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
ENVIRONMENTAL, CABLE SEALING, 90°, CATEGORY 1A
(FOR MIL-DTL-5015 CRIMP, MIL-DTL-26482 SERIES 2, AS81703
SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

SAE AS85049/9
SHEET 1 OF 9

**REV.
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STYLE 1



STYLE 2

FIGURE 1 - CONFIGURATION AND DIMENSIONS

TABLE 1 - DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125		C REF	
	AS81703	MIL-DTL-26482 SERIES 2	MIL-DTL-5015 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	1.800 (45.72)	1.027 (26.09)		
2					6	.250 (6.35)	.437 (11.10)	2	1.320 (33.53)	1.027 (26.09)		
3	N/A	8	8S	8	4	.125 (3.18)	.250 (6.35)	1	1.200 (30.48)	1.027 (26.09)		
4		10	10S, 10SL	10	4	.125 (3.18)	.312 (7.92)	1	1.920 (48.77)	1.027 (26.09)		
5					6	.250 (6.35)	.375 (9.53)	1	1.320 (33.53)	1.027 (26.09)		
6	7	12	12, 12S	12	4	.125 (3.18)	.312 (7.92)	1	1.940 (49.28)	1.027 (26.09)		
7					6	.250 (6.35)	.437 (11.10)	1	1.940 (49.28)	1.027 (26.09)		
8					10	.350 (8.89)	.500 (12.70)	1	1.335 (33.91)	1.027 (26.09)		
9	12	14	14,14S	14	6	.250 (6.35)	.437 (11.10)	1	2.010 (51.05)	1.027 (26.09)		
10					10	.350 (8.89)	.575 (14.61)	1	1.655 (42.04)	1.027 (26.09)		
11	19	16	16, 16S	16	6	.250 (6.35)	.437 (11.10)	1	2.100 (53.34)	1.027 (26.09)		
12					12	.500 (12.70)	.700 (17.78)	1	1.745 (44.32)	1.059 (26.90)		
13	27	18	18	18	10	.350 (8.89)	.625 (15.88)	1	2.270 (57.66)	1.027 (26.09)		
14					16	.625 (15.88)	.779 (19.79)	1	1.920 (48.77)	1.156 (29.36)		
15	37	20	20	20	10	.350 (8.89)	.625 (15.88)	1	2.270 (57.66)	1.027 (26.09)		
16					16	.625 (15.88)	.904 (22.96)	1	1.920 (48.77)	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)	.636 (16.15)	.625-24 UNEF	1.18 (29.97)	—	1.57 (39.88)
2	.669 (16.99)	1.386 (35.20)	.750-20 UNEF	2.02 (51.31)	.858 (21.79)	2.41 (61.21)
3	.617 (15.67)	.541 (13.74)	.625-24 UNEF	1.09 (27.69)	—	1.48 (37.59)
4	.734 (18.64)	.636 (16.15)	.625-24 UNEF	1.18 (29.97)	—	1.57 (39.88)
5	.734 (18.64)	.636 (16.15)	.750-20 UNEF	1.27 (32.26)	—	1.66 (42.16)
6	.858 (21.79)	.641 (16.28)	.625-24 UNEF	1.18 (29.97)	—	1.57 (39.88)
7	.858 (21.79)	.641 (16.28)	.750-20 UNEF	1.28 (32.51)	—	1.67 (42.42)
8	.858 (21.79)	.641 (16.28)	1.000-20 UNEF	1.37 (34.80)	—	1.76 (44.70)
9	.984 (24.99)	.741 (18.82)	.750-20 UNEF	1.38 (35.05)	—	1.77 (44.96)
10	.984 (24.99)	.741 (18.82)	1.000-20 UNEF	1.47 (37.34)	—	1.86 (47.24)
11	1.112 (28.24)	.926 (23.52)	.750-20 UNEF	1.59 (40.39)	—	1.98 (50.29)
12	1.112 (28.24)	.926 (23.52)	1.1875-18 UNEF	1.77 (44.96)	—	2.16 (54.86)
13	1.218 (30.94)	1.016 (25.81)	1.000-20 UNEF	1.80 (45.72)	—	2.19 (55.63)
14	1.218 (30.94)	1.016 (25.81)	1.4375-18 UNEF	1.97 (50.04)	—	2.36 (59.94)
15	1.345 (34.16)	1.016 (25.81)	1.000-20 UNEF	1.80 (45.72)	—	2.19 (55.63)
16	1.345 (34.16)	1.016 (25.81)	1.4375-18 UNEF	1.97 (50.04)	—	2.36 (59.94)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF	
	AS81703	MIL-DTL-26482 SERIES 2	MIL-DTL-5015 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	2.380 (60.45)	1.059 (26.90)	
18					20	.875 (22.23)	1.029 (26.14)	1	2.025 (51.44)	1.375 (34.93)	
19					24	24	24	12	.500 (12.70)	.750 (19.05)	1
20		20	.875 (22.23)	1.144 (29.06)				1	2.025 (51.44)	1.375 (34.93)	
21		N/A	28	N/A	16	.625 (15.88)	.937 (23.80)	1	2.550 (64.77)	1.156 (29.36)	
22					24	1.000 (25.40)	1.375 (34.93)	1	2.195 (55.75)	1.500 (38.10)	
23					32	16	.625 (15.88)	.937 (23.80)	1	2.800 (71.12)	1.156 (29.36)
24						20	.875 (22.23)	1.250 (31.75)	1	2.800 (71.12)	1.375 (34.93)
25						28	1.250 (31.75)	1.625 (41.28)	1	2.445 (62.10)	1.781 (45.24)
26						36	16	.625 (15.88)	.937 (23.80)	1	2.770 (70.36)
27			24		1.000 (25.40)		1.375 (34.93)	1	2.770 (70.36)	1.500 (38.10)	
28			32		1.437 (36.50)		1.840 (46.74)	1	2.415 (61.34)	1.830 (46.48)	
29			40		16		.625 (15.88)	.937 (23.80)	1	2.770 (70.36)	1.156 (29.36)
30					24		1.000 (25.40)	1.375 (34.93)	1	2.770 (70.36)	1.500 (38.10)
31					32		1.437 (36.50)	1.875 (47.63)	1	2.415 (61.34)	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)	1.166 (29.62)	1.1875-18 UNEF	2.11 (53.59)	—	2.50 (63.50)
18	1.468 (37.29)	1.166 (29.62)	1.750-18 UNS	2.29 (58.17)	—	2.68 (68.07)
19	1.593 (40.46)	1.166 (29.62)	1.1875-18 UNEF	2.11 (53.59)	—	2.50 (63.50)
20	1.593 (40.46)	1.166 (29.62)	1.750-18 UNS	2.29 (58.17)	—	2.68 (68.07)
21	1.969 (50.01)	1.266 (32.16)	1.4375-18 UNEF	2.33 (59.18)	—	2.88 (73.15)
22	1.969 (50.01)	1.266 (32.16)	2.000-18 UNS	2.51 (63.75)	—	3.06 (77.72)
23	2.219 (56.36)	1.616 (41.05)	1.4375-18 UNEF	2.81 (71.37)	—	3.36 (85.34)
24	2.219 (56.36)	1.616 (41.05)	1.750-18 UNS	2.81 (71.37)	—	3.36 (85.34)
25	2.219 (56.36)	1.616 (41.05)	2.250-16 UN	3.07 (77.98)	—	3.62 (91.95)
26	2.469 (62.71)	1.816 (46.13)	1.4375-18 UNEF	3.13 (79.50)	—	3.68 (93.47)
27	2.469 (62.71)	1.816 (46.13)	2.000-18 UNS	3.13 (79.50)	—	3.68 (93.47)
28	2.469 (62.71)	1.816 (46.13)	2.500-16 UN	3.39 (86.11)	—	3.94 (100.08)
29	2.719 (69.06)	2.566 (65.18)	1.4375-18 UNEF	3.88 (98.55)	—	4.43 (112.52)
30	2.719 (69.06)	2.566 (65.18)	2.000-18 UNS	3.88 (98.55)	—	4.43 (112.52)
31	2.719 (69.06)	2.566 (65.18)	2.500-16 UN	4.14 (105.16)	—	4.69 (119.13)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF
	AS81703	MIL-DTL-26482 SERIES 2	MIL-DTL-5015 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	2.770 (70.36)	1.156 (29.36)
33					24	1.000 (25.40)	1.375 (34.93)	1	2.770 (70.36)	1.500 (38.10)
34					32	1.437 (36.50)	1.875 (47.63)	1	2.415 (61.34)	1.830 (46.48)
35			48		16	.625 (15.88)	.937 (23.80)	1	2.770 (70.36)	1.156 (29.36)
36					24	1.000 (25.40)	1.375 (34.93)	1	2.770 (70.36)	1.500 (38.10)
37					32	1.437 (36.50)	1.875 (47.63)	1	2.415 (61.34)	1.830 (46.48)
38	61	N/A	N/A	N/A	12	.500 (12.70)	.750 (19.05)	1	2.380 (60.45)	1.059 (26.90)
39					20	.875 (22.23)	1.184 (30.07)	1	2.025 (51.44)	1.375 (34.93)
40	19	16	16, 16S	16	10	.350 (8.89)	.625 (15.88)	1	2.100 (53.34)	1.027 (26.09)
41	27	18	18	18	4	.125 (3.18)	.312 (7.92)	1	2.270 (57.66)	1.027 (26.09)
42					6	.250 (6.35)	.437 (11.10)	1	2.270 (57.66)	1.027 (26.09)
43	37	20	20	20	6	.250 (6.35)	.437 (11.10)	1	2.270 (57.66)	1.027 (26.09)
44	N/A	22	22	22	4	.125 (3.18)	.312 (7.92)	1	2.380 (60.45)	1.027 (26.09)
45					6	.250 (6.35)	.437 (11.10)	1	2.380 (60.45)	1.027 (26.09)
46		24	24	24	10	.350 (8.89)	.625 (15.88)	1	2.380 (60.45)	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
32	2.969 (75.41)	2.566 (65.18)	1.4375-18 UNEF	3.88 (98.55)	—	4.43 (112.52)
33	2.969 (75.41)	2.566 (65.18)	2.000-18 UNS	3.88 (98.55)	—	4.43 (112.52)
34	2.969 (75.41)	2.566 (65.18)	2.500-16 UN	4.14 (105.16)	—	4.69 (119.13)
35	3.219 (81.76)	2.566 (65.18)	1.4375-18 UNEF	3.88 (98.55)	—	4.43 (112.52)
36	3.219 (81.76)	2.566 (65.18)	2.000-18 UNS	3.88 (98.55)	—	4.43 (112.52)
37	3.219 (81.76)	2.566 (65.18)	2.500-16 UN	4.14 (105.16)	—	4.69 (119.13)
38	1.653 (41.99)	1.166 (29.62)	1.1875-18 UNEF	2.11 (53.59)	—	2.50 (63.50)
39	1.653 (41.99)	1.166 (29.62)	1.750-18 UNS	2.29 (58.17)	—	2.68 (68.07)
40	1.112 (28.24)	.926 (23.52)	1.000-20 UNEF	1.66 (42.16)	—	2.05 (52.07)
41	1.218 (30.94)	1.016 (25.81)	.625-24 UNEF	1.80 (45.72)	—	2.19 (55.63)
42	1.218 (30.94)	1.016 (25.81)	.750-20 UNEF	1.80 (45.72)	—	2.19 (55.63)
43	1.345 (34.16)	1.016 (25.81)	.750-20 UNEF	1.80 (45.72)	—	2.19 (55.63)
44	1.468 (37.29)	1.166 (29.62)	.625-24 UNEF	2.11 (53.59)	—	2.50 (63.50)
45	1.468 (37.29)	1.166 (29.62)	.750-20 UNEF	2.11 (53.59)	—	2.50 (63.50)
46	1.593 (40.46)	1.166 (29.62)	1.000-20 UNEF	2.11 (53.59)	—	2.50 (63.50)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)				STYLE	B ±.125	C REF
	AS81703	MIL-DTL-26482 SERIES 2	MIL-DTL-5015 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	2.770 (70.36)	1.059 (26.90)
48			40		12	.500	(12.70)	.750	(19.05)	1	2.770 (70.36)	1.059 (26.90)
49		10	10S, 10SL	10	6	.250	(6.35)	.437	(11.10)	2	1.940 (49.28)	1.027 (26.09)
50	12	14	14, 14S	14	12	.500	(12.70)	.750	(19.05)	2	2.270 (57.66)	1.059 (26.90)
51	19	16	16, 16S	16	16	.625	(15.88)	.937	(23.80)	2	2.380 (60.45)	1.156 (29.36)
52	27	18	18	18	12	.500	(12.70)	.750	(19.05)	1	2.270 (57.66)	1.059 (26.90)
53	61	N/A	N/A	N/A	16	.625	(15.88)	.937	(23.80)	1	2.025 (51.44)	1.156 (29.36)
54	37	20	20	20	12	.500	(12.70)	.750	(19.05)	1	2.270 (57.66)	1.059 (26.90)
55					20	.875	(22.23)	1.250	(31.75)	2	2.550 (64.77)	1.375 (34.93)
56	N/A	22	22	22	10	.350	(8.89)	.625	(15.88)	1	2.380 (60.45)	1.027 (26.09)
57					16	.625	(15.88)	.937	(23.80)	1	2.380 (60.45)	1.156 (29.36)
58					20	.875	(22.23)	1.250	(31.75)	2	2.550 (64.77)	1.375 (34.93)
59		24	24	24	16	.625	(15.88)	.937	(23.80)	1	2.380 (60.45)	1.156 (29.36)
60		N/A	28	N/A	12	.500	(12.70)	.750	(19.05)	1	2.550 (64.77)	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)	1.816 (46.13)	1.1875-18 UNEF	3.13 (79.50)	—	3.68 (93.47)
48	2.719 (69.06)	1.816 (46.13)	1.1875-18 UNEF	3.88 (98.55)	—	4.43 (112.52)
49	.734 (18.64)	1.391 (35.33)	.750-20 UNEF	2.03 (51.56)	.858 (21.79)	2.42 (61.47)
50	.984 (24.99)	1.766 (44.86)	1.1875-18 UNEF	2.61 (66.29)	1.218 (30.94)	3.00 (76.20)
51	1.112 (28.24)	1.916 (48.67)	1.4375-18 UNEF	2.87 (72.90)	1.468 (37.29)	3.26 (82.80)
52	1.218 (30.94)	1.016 (25.81)	1.1875-18 UNEF	1.86 (47.24)	—	2.25 (57.15)
53	1.653 (41.99)	1.166 (29.62)	1.4375-18 UNEF	2.14 (54.36)	—	2.53 (64.26)
54	1.345 (34.16)	1.016 (25.81)	1.1875-18 UNEF	1.86 (47.24)	—	2.25 (57.15)
55	1.345 (34.16)	2.016 (51.21)	1.750-18 UNS	3.14 (79.76)	1.969 (50.01)	3.53 (89.66)
56	1.468 (37.29)	1.166 (29.62)	1.000-20 UNEF	2.11 (53.59)	—	2.50 (63.50)
57	1.468 (37.29)	1.166 (29.62)	1.4375-18 UNEF	2.12 (53.85)	—	2.51 (63.75)
58	1.468 (37.29)	2.016 (51.21)	1.750-18 UNS	3.14 (79.76)	1.969 (50.01)	3.53 (89.66)
59	1.593 (40.46)	1.166 (29.62)	1.4375-18 UNEF	2.14 (54.36)	—	2.53 (64.26)
60	1.969 (50.01)	1.266 (32.16)	1.1875-18 UNEF	2.33 (59.18)	—	2.88 (73.15)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	CONNECTOR SHELL SIZE				CLAMP SIZE	A (SEE NOTE 6)		STYLE	B ±.125	C REF
	AS81703	MIL-DTL-26482 SERIES 2	MIL-DTL-5015 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	2.550 (64.77)	1.375 (34.93)
62			32		24	1.000 (25.40)	1.375 (34.93)	1	2.800 (71.12)	1.500 (38.10)
63			36		20	.875 (22.23)	1.250 (31.75)	1	2.770 (70.36)	1.375 (34.93)
64					28	1.250 (31.75)	1.625 (41.28)	1	2.770 (70.36)	1.781 (45.24)
65			40		20	.875 (22.23)	1.250 (31.75)	1	2.770 (70.36)	1.375 (34.93)
66					28	1.250 (31.75)	1.625 (41.28)	1	2.770 (70.36)	1.781 (45.24)
67			44		20	.875 (22.23)	1.250 (31.75)	1	2.770 (70.36)	1.375 (34.93)
68					28	1.250 (31.75)	1.625 (41.28)	1	2.770 (70.36)	1.781 (45.24)
69			48		20	.875 (22.23)	1.250 (31.75)	1	2.770 (70.36)	1.375 (34.93)
70					28	1.250 (31.75)	1.625 (41.28)	1	2.770 (70.36)	1.781 (45.24)
71	7	12	12, 12S	12	10	.350 (8.89)	.625 (15.88)	2	2.100 (53.34)	1.027 (26.09)
72	27	18	18	18	16	.625 (15.88)	.937 (23.80)	2	2.380 (60.45)	1.156 (29.36)
73	N/A	24	24	24	20	.875 (22.23)	1.250 (31.75)	2	2.550 (64.77)	1.375 (34.93)
74	12	14	14, 14S	14	4	.125 (3.18)	.312 (7.92)	1	2.010 (51.05)	1.027 (26.09)
75	19	16	16, 16S	16	4	.125 (3.18)	.312 (7.92)	1	2.100 (53.34)	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)	1.266 (32.16)	1.750-18 UNS	2.39 (60.71)	—	2.94 (74.68)
62	2.219 (56.36)	1.616 (41.05)	2.000-18 UNS	2.86 (72.64)	—	3.41 (86.61)
63	2.469 (62.71)	1.816 (46.13)	1.750-18 UNS	3.13 (79.50)	—	3.68 (93.47)
64	2.469 (62.71)	1.816 (46.13)	2.250-16 UN	3.27 (83.06)	—	3.82 (97.03)
65	2.719 (69.06)	2.566 (65.18)	1.750-18 UNS	3.88 (98.55)	—	4.43 (112.52)
66	2.719 (69.06)	2.566 (65.18)	2.250-16 UN	4.02 (102.11)	—	4.57 (116.08)
67	2.969 (75.41)	2.566 (65.18)	1.750-18 UNS	3.88 (98.55)	—	4.43 (112.52)
68	2.969 (75.41)	2.566 (65.18)	2.250-16 UN	4.02 (102.11)	—	4.57 (116.08)
69	3.219 (81.76)	2.566 (65.18)	1.750-18 UNS	3.88 (98.55)	—	4.43 (112.52)
70	3.219 (81.76)	2.566 (65.18)	2.250-16 UN	4.02 (102.11)	—	4.57 (116.08)
71	.858 (21.79)	1.686 (42.82)	1.000-20 UNEF	2.42 (61.47)	1.112 (28.24)	2.81 (71.37)
72	1.218 (30.94)	1.926 (48.92)	1.4375-18 UNEF	2.88 (73.15)	1.468 (37.29)	3.27 (83.06)
73	1.593 (40.46)	2.026 (51.46)	1.750-18 UNS	3.15 (80.01)	1.969 (50.01)	3.54 (89.92)
74	.984 (24.99)	.741 (18.82)	.625-24 UNEF	1.31 (33.27)	—	1.70 (43.18)
75	1.112 (28.24)	.926 (23.52)	.625-24 UNEF	1.59 (40.39)	—	1.98 (50.29)