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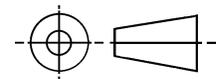
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THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, CABLE SEALING, 45°, SHIELD TERMINATION, CATEGORY 1A (FOR MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3, AND MIL-C-83723 SERIES III CONNECTORS)

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SHEET 1 OF 13

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: MIL-C-85049.

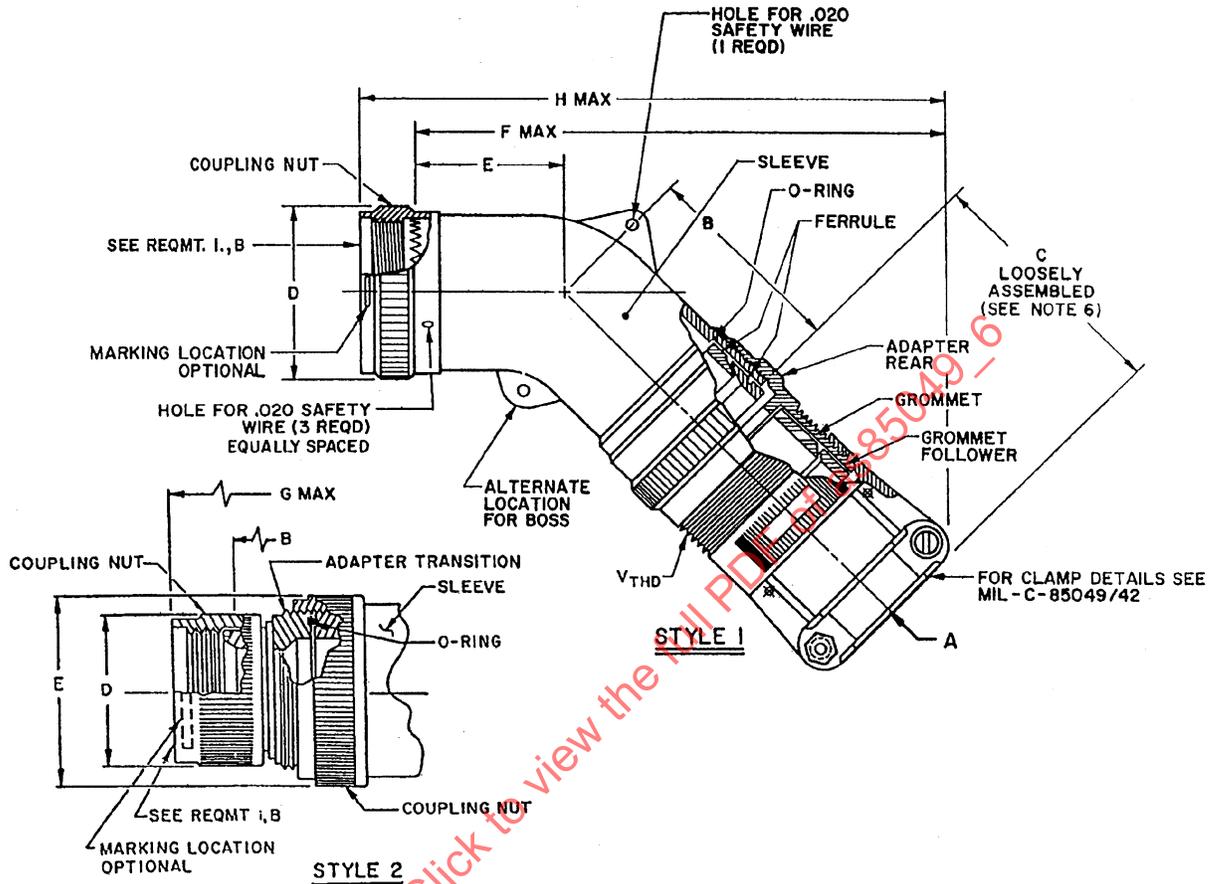


FIGURE 1. CONFIGURATION AND DIMENSIONS.

TABLE I. DIMENSIONS.

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	1	3					4				
2					6	.250	.437	2	1.910	1.544	.669
3		8	8S	8	4	.125	.250	1	1.182	1.544	.617
4		10	10S, 10SL	10	4	.125	.312	1	1.850	1.544	.734
5	6				.250	.375	1	1.245	1.544	.734	
6		12	12,12S	12	4	.125	.312	1	1.910	1.544	.858
7	7				6	.250	.437	1	1.910	1.544	.858
8					10	.350	.500	1	1.910	1.844	.858
9		14	14,14S	14	6	.250	.437	1	2.000	1.544	.984
10	12				10	.350	.575	1	1.655	1.844	.984

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
1	.561	.625-24 UNEF	3.37	-	3.74
2	1.375	.750-20 UNEF	4.33	.858	4.70
3	.500	.625-24 UNEF	2.88	-	3.25
4	.561	.625-24 UNEF	3.41	-	3.78
5	.561	.750-20 UNEF	3.05	-	3.42
6	.625	.625-24 UNEF	3.52	-	3.89
7	.625	.750-20 UNEF	3.58	-	3.95
8	.625	1.000-20 UNEF	3.86	-	4.23
9	.688	.750-20 UNEF	3.71	-	4.08
10	.688	1.000-20 UNEF	3.74	-	4.11

TABLE I. DIMENSIONS (CONTINUED).

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Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	11	19	16	16,16S		16	6				
12	12				.500		.700	1	1.750	1.916	1.112
13	27	18	18	18	10	.350	.625	1	2.300	1.844	1.218
14					16	.625	.779	1	1.938	2.000	1.218
15	37	20	20	20	10	.350	.625	1	2.300	1.844	1.345
16					16	.625	.904	1	1.938	2.000	1.345
17	X	22	22	22	12	.500	.750	1	2.450	1.916	1.468
18					20	.875	1.029	1	2.093	2.230	1.468
19		24	24	24	12	.500	.750	1	2.450	1.916	1.593
20					20	.875	1.144	1	2.093	2.230	1.593

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
11	.781	.750-20 UNEF	3.88	-	4.25
12	.781	1.1875-18 UNEF	4.03	-	4.40
13	.968	1.000-20 UNEF	4.48	-	4.85
14	.968	1.4375-18 UNEF	4.49	-	4.86
15	.968	1.000-20 UNEF	4.48	-	4.85
16	.968	1.4375-18 UNEF	4.49	-	4.86
17	1.063	1.1875-18 UNEF	4.81	-	5.18
18	1.063	1.750-10 UNS	4.98	-	5.35
19	1.063	1.1875-18 UNEF	4.81	-	5.18
20	1.063	1.750-18 UNS	4.98	-	5.35

TABLE I. DIMENSIONS (CONTINUED).

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Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B ±.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	21			28			16				
22					24	1.000	1.375	1	2.156	2.024	1.969
23					16	.625	.937	1	2.600	2.000	2.219
24			32		20	.875	1.250	1	2.600	2.230	2.219
25					28	1.250	1.625	1	2.250	2.550	2.219
26					16	.625	.937	1	2.690	2.000	2.469
27			36		24	1.000	1.375	1	2.690	2.024	2.469
28					32	1.437	1.840	1	2.344	2.600	2.469
29					16	.625	.937	1	2.690	2.000	2.719
30			40		24	1.000	1.375	1	2.690	2.024	2.719

Dash No.	E ±.125	V Thread Class 2A	F Max	G Dia Max	H Max
21	1.188	1.4375-18 UNEF	5.11	-	5.64
22	1.188	2.000-18 UNS	5.09	-	5.62
23	1.250	1.4375-18 UNEF	5.24	-	5.77
24	1.250	1.750-18 UNS	5.52	-	6.05
25	1.250	2.250-16 UN	5.73	-	6.26
26	1.281	1.4375-18 UNEF	5.33	-	5.86
27	1.281	2.000-18 UNS	5.56	-	6.09
28	1.281	2.500-18 UN	5.95	-	6.48
29	2.031	1.4375-18 UNEF	6.08	-	6.61
30	2.031	2.000-18 UNS	6.31	-	6.84

TABLE I. DIMENSIONS (CONTINUED).

AS85049/6

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6)		Style	B ±.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Wire Bundle Accommodation Range					
						Min	Max				
31			40		32	1.437	1.875	1	2.344	2.600	2.719
32					16	.625	.937	1	2.690	2.000	2.969
33			44		24	1.000	1.375	1	2.690	2.024	2.969
34					32	1.437	1.875	1	2.344	2.600	2.969
35			48		16	.625	.937	1	2.690	2.000	3.219
36					24	1.000	1.375	1	2.690	2.024	3.219
37					32	1.437	1.875	1	2.344	2.600	3.219
38					12	.500	.750	1	2.450	1.916	1.653
39	61				20	.875	1.184	1	2.093	2.230	1.653
40	19	16	16,16S	16	10	.350	.625	1	2.110	1.844	1.112

Dash No.	E ±.125	V Thread Class 2A	F Max	G Dia Max	H Max
31	2.031	2.500-16 UN	6.70	-	7.23
32	2.031	1.437-18 UNEF	6.08	-	6.61
33	2.031	2.000-18 UNS	6.31	-	6.84
34	2.031	2.500-16 UN	6.70	-	7.23
35	2.031	1.4375-18 UNEF	6.08	-	6.61
36	2.031	2.000-18 UNS	6.31	-	6.84
37	2.031	2.500-16 UN	6.70	-	7.23
38	1.063	1.1875-18 UNEF	4.81	-	5.18
39	1.063	1.750-18 UNS	4.98	-	5.35
40	.781	1.000-20 UNEF	4.16	-	4.53

TABLE I. DIMENSIONS (CONTINUED).

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Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	41	27	18	18		18	4				
42	6				.250		.437	1	2.300	1.544	1.218
43	37	20	20	20	6	.250	.437	1	2.300	1.544	1.345
44	X	22	22	22	4	.125	.312	1	2.450	1.544	1.468
45					6	.250	.437	1	2.450	1.544	1.468
46		24	24	24	10	.350	.625	1	2.450	1.844	1.593
47		X	X	36	X	12	.500	.750	1	2.690	1.916
48	40			12		.500	.750	1	2.690	1.916	2.719
49		10	10S, 10SL	10	6	.250	.437	2	1.910	1.544	.734
50	12	14	14, 14S	14	12	.500	.750	2	2.300	1.916	.984

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
41	.968	.625-24 UNEF	4.13	-	4.50
42	.968	.750-20 UNEF	4.20	-	4.57
43	.968	.750-20 UNEF	4.20	-	4.57
44	1.063	.625-24 UNEF	4.34	-	4.71
45	1.063	.750-20 UNEF	4.40	-	4.77
46	1.063	1.000-20 UNEF	4.68	-	5.05
47	1.281	1.1875-18 UNEF	5.20	-	5.73
48	2.031	1.1875-18 UNEF	5.95	-	6.48
49	1.375	.750-20 UNEF	4.33	.858	4.70
50	1.717	1.1875-18 UNEF	5.36	1.218	5.73

TABLE I. DIMENSIONS (CONTINUED).

AS85049/6

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B ±.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	51	18	16	16,16S		16	16				
52	27	18	18	18	12	.500	.750	1	2.300	1.916	1.218
53	61				16	.625	.937	1	2.450	2.000	1.653
54	37	20	20	20	12	.500	.750	1	2.300	1.916	1.345
55					20	.875	1.250	2	2.500	2.230	1.345
56					10	.350	.625	1	2.450	1.844	1.468
57					16	.625	.937	1	2.450	2.000	1.468
58					20	.875	1.250	2	2.500	2.230	1.468
59					24	.625	.937	1	2.450	2.000	1.593
60			28		12	.500	.750	1	2.500	1.916	1.969

Dash No.	E ±.125	V Thread Class 2A	F Max	G Dia Max	H Max
51	1.812	1.4375-18 UNEF	5.70	1.468	6.07
52	.968	1.1875-18 UNEF	4.61	-	4.98
53	1.063	1.4375-18 UNEF	4.95	-	5.32
54	.968	1.1875-18 UNEF	4.61	-	4.98
55	1.936	1.750-18 UNS	6.14	1.969	6.48
56	1.063	1.000-20 UNEF	4.68	-	5.05
57	1.063	1.4375-18 UNEF	4.95	-	5.32
58	1.936	1.750-18 UNS	6.14	1.969	6.51
59	1.063	1.4375-18 UNEF	4.95	--	5.32
60	1.188	1.1875-18 UNEF	4.97	--	5.50

TABLE I. DIMENSIONS (CONTINUED).

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Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Min	Max				
	61			28			20				
62			32		24	1.000	1.375	1	2.600	2.024	2.219
63			36		20	.875	1.250	1	2.690	2.230	2.469
64					28	1.250	1.625	1	2.690	2.550	2.469
65			40		20	.875	1.250	1	2.690	2.230	2.719
66					28	1.250	1.625	1	2.690	2.550	2.719
67			44		20	.875	1.250	1	2.690	2.230	2.969
68					28	1.250	1.625	1	2.690	2.550	2.969
69			48		20	.875	1.250	1	2.690	2.230	3.219
70					28	1.250	1.625	1	2.690	2.550	3.219

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
61	1.188	1.750-18 UNS	5.39	-	5.92
62	1.250	2.000-18 UNS	5.47	-	6.00
63	1.281	1.750-18 UNS	5.62	-	6.15
64	1.281	2.250-16 UN	6.08	-	6.61
65	2.031	1.750-18 UNS	6.37	-	6.90
66	2.031	2.250-16 UN	6.83	-	7.36
67	2.031	1.750-18 UNS	6.37	-	6.90
68	2.031	2.250-16 UN	6.83	-	7.36
69	2.031	1.750-18 UNS	6.37	-	6.90
70	2.031	2.250-16 UN	6.83	-	7.36

TABLE I. DIMENSIONS (CONTINUED).

AS85049/6

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6)		Style	B +.062	C Ref	D Dia Max
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		Wire Bundle Accommodation Range					
						Min	Max				
71	7	12	12,12S	12	10	.350	.625	2	2.110	1.844	.858
72	27	18	18	18	16	.625	.937	2	2.450	2.000	1.218
73		24	24	24	20	.875	1.250	2	2.500	2.230	1.593
74	12	14	14,14S	14	4	.125	.312	1	2.000	1.544	.984
75	19	16	16,16S	16	4	.125	.312	1	2.110	1.544	1.112

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
71	1.529	1.000-20 UNEF	4.90	1.112	5.27
72	1.812	1.4375-18 UNEF	5.69	1.468	6.06
73	1.936	1.750-18 UNS	6.13	1.969	6.50
74	.688	.625-24 UNEF	3.64	-	4.01
75	.781	.625-24 UNEF	3.81	-	4.18