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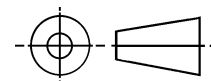
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THIRD ANGLE PROJECTION



ISSUED 1998-08 REAFFIRMED 2004-11

PREPARED BY SUBCOMMITTEE AE-8C1

SAE Aerospace
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AEROSPACE STANDARD

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

AS85049/23
SHEET 1 OF 13

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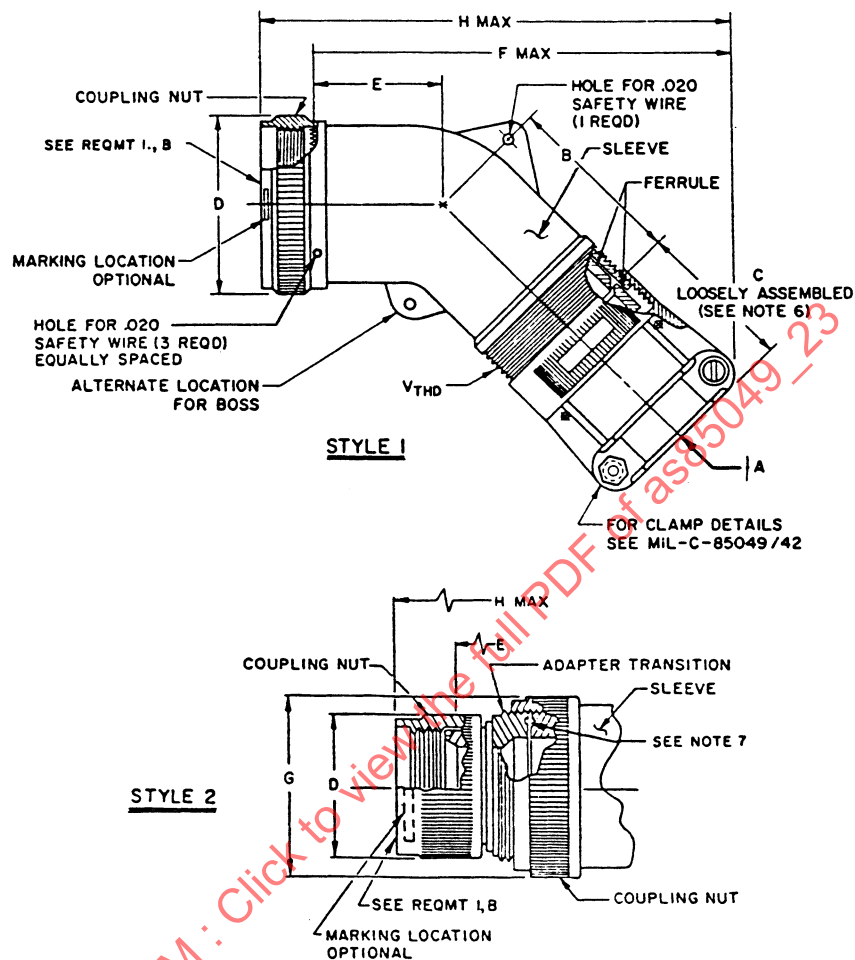


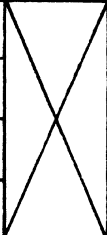
FIGURE 1. CONFIGURATION AND DIMENSIONS.

TABLE I. DIMENSIONS.

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.125	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	.125	.250	1	1.790	1.027	.669
2					6	.250	.437	2	1.910	1.027	.669
3		8	8S	8	4	.125	.250	1	1.182	1.027	.617
4		10	10S, 10SL	10	4	.125	.312	1	1.850	1.027	.734
5					6	.250	.375	1	1.245	1.027	.734
6	7	12	12,12S	12	4	.125	.312	1	1.910	1.027	.858
7					6	.250	.437	1	1.910	1.027	.858
8					10	.350	.500	1	1.910	1.027	.858
9	12	14	14,14S	14	6	.250	.437	1	2.000	1.027	.984
10					10	.350	.575	1	1.655	1.027	.984

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
1	.561	.625-24 UNEF	3.00	-	3.39
2	1.375	.750-20 UNEF	3.97	.858	4.36
3	.500	.625-24 UNEF	2.52	-	2.91
4	.561	.625-24 UNEF	3.05	-	3.44
5	.561	.750-20 UNEF	2.69	-	3.08
6	.625	.625-24 UNEF	3.16	-	3.55
7	.625	.750-20 UNEF	3.22	-	3.61
8	.625	1.000-20 UNEF	3.29	-	3.68
9	.688	.750-20 UNEF	3.35	-	3.74
10	.688	1.000-20 UNEF	3.17	-	3.56

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.125	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	.250	.437	1	2.110	1.027	1.112
12					12	.500	.700	1	1.750	1.059	1.112
13	27	18	18	18	10	.350	.625	1	2.300	1.027	1.218
14					16	.625	.779	1	1.938	1.156	1.218
15	37	20	20	20	10	.350	.625	1	2.300	1.027	1.345
16					16	.625	.904	1	1.938	1.156	1.345
17		22	22	22	12	.500	.750	1	2.450	1.059	1.468
18					20	.875	1.029	1	2.093	1.375	1.468
19		24	24	24	12	.500	.750	1	2.450	1.069	1.593
20					20	.875	1.144	1	2.093	1.375	1.593

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
11	.781	.750-20 UNEF	3.52	-	3.91
12	.781	1.1875-18 UNEF	3.43	-	3.82
13	.968	1.000-20 UNEF	3.91	-	4.30
14	.968	1.4375-18 UNEF	3.90	-	4.29
15	.968	1.000-20 UNEF	3.91	-	4.30
16	.968	1.4375-18 UNEF	3.90	-	4.29
17	1.063	1.1875-18 UNEF	4.21	-	4.60
18	1.063	1.750-10 UNS	4.38	-	4.77
19	1.063	1.1875-18 UNEF	4.21	-	4.60
20	1.063	1.750-18 UNS	4.38	-	4.77

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.125	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	.625	.937	1	2.500	1.156	1.969
22					24	1.000	1.375	1	2.156	1.500	1.969
23			32		16	.625	.937	1	2.600	1.156	2.219
24					20	.875	1.250	1	2.600	1.375	2.219
25					28	1.250	1.625	1	2.250	1.781	2.219
26			36		16	.625	.937	1	2.690	1.156	2.469
27					24	1.000	1.375	1	2.690	1.500	2.469
28					32	1.437	1.840	1	2.344	1.830	2.489
29			40		16	.625	.937	1	2.690	1.156	2.719
30					24	1.000	1.375	1	2.690	1.500	2.719

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
21	1.188	1.4375-18 UNEF	4.52	-	5.05
22	1.188	2.000-18 UNS	4.72	-	5.23
23	1.250	1.4375-18 UNEF	4.65	-	5.18
24	1.250	1.750-18 UNS	4.92	-	5.45
25	1.250	2.250-16 UN	5.19	-	5.72
26	1.281	1.4375-18 UNEF	4.74	-	5.27
27	1.281	2.000-18 UNS	5.19	-	5.72
28	1.281	2.500-18 UN	5.41	-	5.94
29	2.031	1.4375-18 UNEF	5.49	-	6.02
30	2.031	2.000-18 UNS	5.94	-	6.47

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.125	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				
31			40		32	1.437	1.875	1	2.344	1.830	2.719
32			44		16	.625	.937	1	2.690	1.156	2.969
33					24	1.000	1.375	1	2.690	1.500	2.969
34					32	1.437	1.875	1	2.344	1.830	2.969
35			48		16	.625	.937	1	2.690	1.156	3.219
36					24	1.000	1.375	1	2.690	1.500	3.219
37					32	1.437	1.875	1	2.344	1.830	3.219
38	61				12	.500	.750	1	2.450	1.059	1.653
39					20	.875	1.184	1	2.093	1.375	1.653
40	19	16	16,16S	16	10	.350	.625	1	2.110	1.027	1.112

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
31	2.031	2.500-16 UN	6.16	-	6.69
32	2.031	1.437-18 UNEF	5.49	-	6.02
33	2.031	2.000-18 UNS	5.94	-	6.47
34	2.031	2.500-16 UN	6.16	-	6.69
35	2.031	1.4375-18 UNEF	5.49	-	6.02
36	2.031	2.000-18 UNS	5.94	-	6.47
37	2.031	2.500-16 UN	6.16	-	6.69
38	1.063	1.1875-18 UNEF	4.21	-	4.60
39	1.063	1.750-18 UNS	4.38	-	4.77
40	.781	1.000-20 UNEF	3.59	-	3.98

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B	C	D Dia
	MIL-C-81703 Ser 3	MIL-C-26482 Ser 2	MIL-C-5015 Crimp	MIL-C-83723 Ser III		+ .125	Ref		Max		
										Min	Max
41	27	18	18	18	4	.125	.312	1	2.300	1.027	1.218
42					6	.250	.437	1	2.300	1.027	1.218
43	37	20	20	20	6	.250	.437	1	2.300	1.027	1.345
44		22	22	22	4	.125	.312	1	2.450	1.027	1.488
45					6	.250	.437	1	2.450	1.027	1.468
46		24	24	24	10	.350	.625	1	2.450	1.027	1.593
47			36		12	.500	.750	1	2.690	1.059	2.469
48			40		12	.500	.750	1	2.690	1.059	2.719
49		10	10S, 10SL	10	6	.250	.437	2	1.910	1.027	.734
50	12	14	14, 14S	14	12	.500	.750	2	2.300	1.059	.984

Dash No.	E $\pm .125$	V Thread Class 2A	F Max	G Dia Max	H Max
41	.968	.625-24 UNEF	3.80	-	4.19
42	.968	.750-20 UNEF	3.84	-	4.23
43	.968	.750-20 UNEF	3.84	-	4.23
44	1.063	.625-24 UNEF	3.98	-	4.37
45	1.063	.750-20 UNEF	4.04	-	4.43
46	1.063	1.000-20 UNEF	4.11	-	4.50
47	1.281	1.1875-18 UNEF	4.60	-	5.13
48	2.031	1.1875-18 UNEF	5.35	-	5.88
49	1.375	.750-20 UNEF	3.97	.858	4.36
50	1.717	1.1875-18 UNEF	4.76	1.218	5.15

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B ±.125	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	19	16	16,16S	16	16	.625	.937	2	2.450	1.156	1.112
52	27	18	18	18	12	.500	.750	1	2.300	1.059	1.218
53	61				16	.625	.937	1	2.450	1.156	1.653
54	37	20	20	20	12	.500	.750	1	2.300	1.059	1.345
55					20	.875	1.250	2	2.500	1.375	1.345
56		22	22	22	10	.350	.625	1	2.450	1.027	1.468
57					16	.625	.937	1	2.450	1.156	1.468
58					20	.875	1.250	2	2.500	1.375	1.468
59		24	24	24	16	.625	.937	1	2.450	1.156	1.593
60				28		12	.500	.750	1	2.500	1.059

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
51	1.812	1.4375-18 UNEF	5.11	1.468	5.50
52	.968	1.1875-18 UNEF	4.01	-	4.40
53	1.063	1.4375-18 UNEF	4.36	-	4.75
54	.968	1.1875-18 UNEF	4.01	-	4.40
55	1.936	1.750-18 UNS	5.54	1.969	5.93
56	1.063	1.000-20 UNEF	4.11	-	4.50
57	1.063	1.4375-18 UNEF	4.36	-	4.75
58	1.936	1.750-18 UNS	5.54	1.969	5.93
59	1.063	1.4375-18 UNEF	4.36	--	4.75
60	1.188	1.1875-18 UNEF	4.37	--	4.90

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6) Wire Bundle Accommodation Range		Style	B +.125	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	.875	1.250	1	2.500	1.375	1.969
62			32		24	1.000	1.375	1	2.600	1.500	2.219
63			36		20	.875	1.250	1	2.690	1.375	2.469
64					28	1.250	1.625	1	2.690	1.781	2.469
65			40		20	.875	1.250	1	2.690	1.375	2.719
66					28	1.250	1.625	1	2.690	1.781	2.719
67			44		20	.875	1.250	1	2.690	1.375	2.969
68					28	1.250	1.625	1	2.690	1.781	2.969
69			48		20	.875	1.250	1	2.690	1.375	3.219
70					28	1.250	1.625	1	2.690	1.781	3.219

Dash No.	E $\pm .125$	V Thread Class 2A	F Max	G Dia Max	H Max
61	1.188	1.750-18 UNS	4.79	-	5.32
62	1.250	2.000-18 UNS	5.10	-	5.63
63	1.281	1.750-18 UNS	5.02	-	5.55
64	1.281	2.250-16 UN	5.54	-	6.07
65	2.031	1.750-18 UNS	5.77	-	6.30
66	2.031	2.250-16 UN	6.29	-	6.82
67	2.031	1.750-18 UNS	5.77	-	6.30
68	2.031	2.250-16 UN	6.29	-	6.82
69	2.031	1.750-18 UNS	5.77	-	6.30
70	2.031	2.250-16 UN	6.29	-	6.82

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	Fits Shell of Connector				Clamp Size	A (see note 6)		Style	B +.125	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	1.027	.858
72	27	18	18	18	16	.625	.937	2	2.450	1.156	1.218
73		24	24	24	20	.875	1.250	2	2.500	1.375	1.593
74	12	14	14,14S	14	4	.125	.312	1	2.000	1.027	.984
75	19	16	16,16S	16	4	.125	.312	1	2.110	1.027	1.112

Dash No.	E +.125	V Thread Class 2A	F Max	G Dia Max	H Max
71	1.529	1.000-20 UNEF	4.33	1.112	4.72
72	1.812	1.4375-18 UNEF	5.10	1.468	5.49
73	1.936	1.750-18 UNS	5.53	1.969	5.92
74	.688	.625-24 UNEF	3.28	-	3.67
75	.781	.625-24 UNEF	3.45	-	3.84