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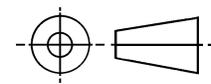
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THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, CABLE SEALING, STRAIGHT, 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 22

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.

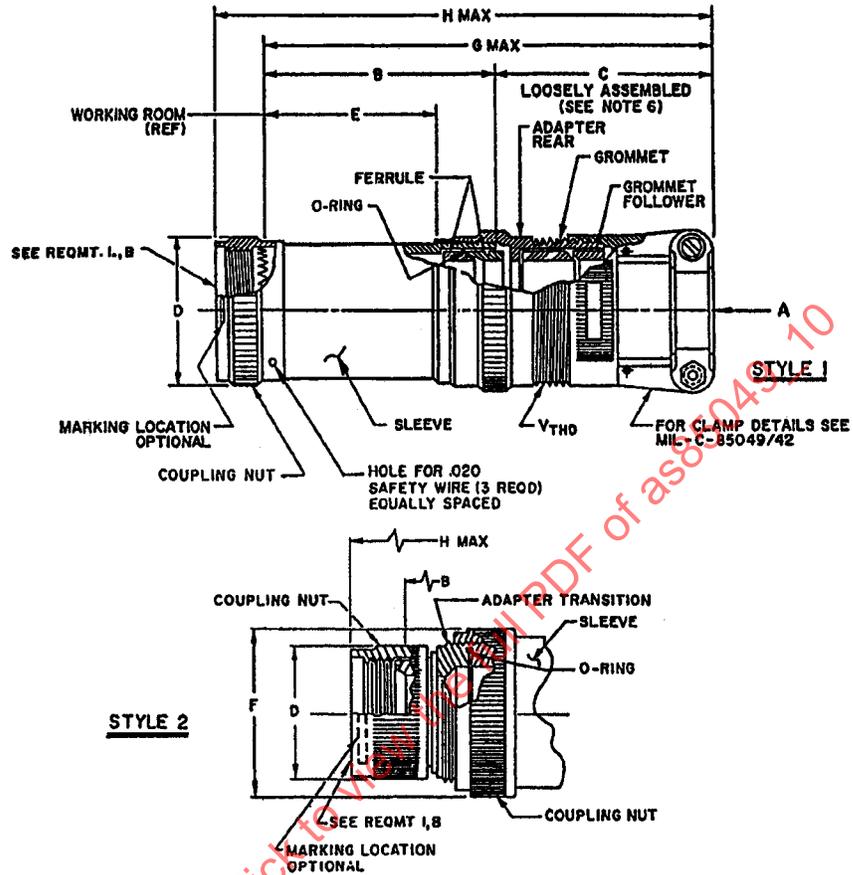


FIGURE 1. CONFIGURATION AND DIMENSIONS.

TABLE I. DIMENSIONS.

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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							
	01	3	X	X		X	4					.125	.250	1
02	3.00													
03	6				.250		.437	2	2.75	3.75	1.544	.669		
04													3.75	
05	X	X	X	X	4	.125	.250	1	2.00	1.544	.617			
06												3.00		
07					8	8S	8	6	.250	.437	2	2.75	1.544	.617
08														
09	X	X	X	X	4	.125	.312	1	2.00	1.544	.734			
10												3.00		
11					10	10S, 10SL	10	6	.250	.437	2	2.75	1.544	.734
12														
13	7	12	12, 12S	12	6	.250	.437	1	2.00	1.544	.858			
14												3.00		
15					10	.350	.625	2	2.75	3.75	1.844	.858		
16													3.75	
17	12	14	14, 14S	14	10	.350	.575	1	2.00	1.844	.984			
18												3.00		
19					12	.500	.750	2	2.75	3.75	1.916	.984		
20													3.75	

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
01	1.06	.625-24 UNEF	-	3.66	4.02
02	2.06			4.66	5.02
03	1.81	.750-20 UNEF	.858	4.41	4.77
04	2.81			5.41	5.77
05	1.06	.625-24 UNEF	-	3.66	4.02
06	2.06			4.66	5.02
07	1.81	.750-20 UNEF	.858	4.41	4.77
08	2.81			5.41	5.77
09	1.06	.625-24 UNEF	-	3.66	4.02
10	2.06			4.66	5.02
11	1.81	.750-20 UNEF	.858	4.41	4.77
12	2.81			5.41	5.77
13	1.06	.750-20 UNEF	-	3.66	4.02
14	2.06			4.66	5.02
15	1.67	1.000-20 UNEF	1.112	4.71	5.07
16	2.67			5.71	6.07
17	0.92	1.000-20 UNEF	-	3.96	4.32
18	1.92			4.96	5.32
19	1.67	1.1875-18 UNEF	1.218	4.78	5.14
20	2.87			5.78	6.14

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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 +.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	19	16	16,16S		16	12				
22	3.00										
23	19	16	16,16S	16	16	.625	.937	2	2.75	2.000	1.112
24									3.75		
25	27	18	18	18	10	.350	.625	1	2.00	1.844	1.218
26									3.00		
27	27	18	18	18	12	.500	.750	1	2.00	1.916	1.218
28									3.00		
29	27	18	18	18	16	.625	.937	2	2.75	2.000	1.218
30									3.75		
31	37	20	20	20	10	.350	.625	1	3.00	1.844	1.345
32									4.00		
33	37	20	20	20	12	.500	.750	1	3.00	1.916	1.345
34									4.00		
35	37	20	20	20	16	.625	.937	2	3.75	2.000	1.345
36									4.75		
37	37	20	20	20	20	.875	1.250	2	3.75	2.230	1.345
38									4.75		
39	40	22	22	22	10	.350	.625	1	3.00	1.844	1.468
40									4.00		

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TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
21	0.92	1.1875-18 UNEF	-	4.03	4.39
22	1.92			5.03	5.39
23	1.67	1.4375-18 UNEF	1.468	4.87	5.23
24	2.67			5.87	6.23
25	0.92	1.000-20 UNEF	-	3.96	4.32
26	1.92			4.96	5.32
27	0.92	1.1875-18 UNEF	-	4.03	4.39
28	1.92			5.03	5.39
29	1.67	1.4375-18 UNEF	1.468	4.87	5.23
30	2.67			5.87	6.23
31	1.92	1.000-20 UNEF	-	4.96	5.32
32	2.92			5.96	6.32
33	1.92	1.1875-18 UNEF	-	5.03	5.39
34	2.92			6.03	6.39
35	2.67	1.4375-18 UNEF	1.468	5.87	6.23
36	3.67			6.87	7.23
37	2.67	1.750-18 UNS	1.969	6.10	6.46
38	3.67			7.10	7.46
39	1.92	1.000-20 UNEF	-	4.96	5.32
40	2.92			5.96	6.32

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 +.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				
	41						12				
42								4.00			
43		22	22	22	16	.625	.937	1	3.00	2.000	1.468
44									4.00		
45											20
46				4.75							
47		24	24	24	12	.500	.750	1	3.00	1.916	1.593
48									4.00		
49											16
50				4.00							
51				16	.625	.937	1	3.00	2.000	1.593	
52								4.00			
53				20	.875	1.250	2	3.75	2.230	1.593	
54								4.75			
55		28	28	28	12	.500	.750	1	3.00	1.916	1.969
56											
57											16
58				4.00							
59				20	.875	1.250	1	3.00	2.230	1.969	
60								4.00			

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
41	1.92	1.1875-18 UNEF	-	5.03	5.39
42	2.92			6.03	6.39
43	1.92	1.4375-18 UNEF	-	5.12	5.48
44	2.92			6.12	6.48
45	2.67	1.750-18 UNS	1.969	6.10	6.46
46	3.67			7.10	7.46
47	1.92	1.1875-18 UNEF	-	5.03	5.39
48	2.92			6.03	6.39
49	1.92	1.4375-18 UNEF	-	5.12	5.48
50	2.92			6.12	6.48
51	1.92	1.4375-18 UNEF	-	5.12	5.48
52	2.92			6.12	6.48
53	2.67	1.750-18 UNS	1.969	6.10	6.46
54	3.67			7.10	7.46
55	1.92	1.1875-18 UNEF	-	5.04	5.56
56	2.92			6.04	6.56
57	1.92	1.4375-18 UNEF	-	5.12	5.64
58	2.92			6.12	6.64
59	1.92	1.750-18 UNS	-	5.35	5.87
60	2.92			6.35	6.87

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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 +.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			24					1.000
62								4.00				
63			32		16	.625	.937	1	3.00	2.000	2.219	
64									4.00			
65						20	.875	1.250	1	3.00	2.230	2.219
66									4.00			
67					24	1.000	1.375	1	3.00	2.024	2.219	
68								4.00				
69			36		28	1.250	1.625	1	3.00	2.550	2.219	
70									4.00			
71						20	.875	1.250	1	4.00	2.230	2.469
72									5.00			
73					24	1.000	1.375	1	4.00	2.024	2.469	
74								5.00				
75					28	1.250	1.625	1	4.00	2.550	2.469	
76								5.00				
77			40		32	1.437	1.875	2	4.88	2.600	2.469	
78									5.88			
79						20	.875	1.250	1	4.00	2.230	2.719
80								5.00				

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
61	1.92	2.000-18 UNS	-	4.62	5.14
62	2.92			5.62	6.14
63	1.92	1.4375-18 UNEF	-	5.12	5.64
64	2.92			6.12	6.64
65	1.92	1.750-18 UNS	-	4.50	5.02
66	2.92			5.50	6.02
67	1.92	2.000-18 UNS	-	4.62	5.14
68	2.92			5.62	6.14
69	1.92	2.250-16 UN	-	4.90	5.42
70	2.92			5.90	6.42
71	2.92	1.750-18 UNS	-	5.50	6.02
72	3.92			6.50	7.02
73	2.92	2.000-18 UNS	-	5.62	6.14
74	3.92			6.62	7.14
75	2.92	2.250-16 UN	-	5.90	6.42
76	3.92			6.90	7.42
77	3.80	2.500-16 UN	2.719	6.83	7.35
78	4.80			7.83	8.35
79	2.92	1.750-18 UNS	-	5.50	6.02
80	3.92			6.50	7.02

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TABLE I. DIMENSIONS (CONTINUED).

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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							
81			40		24	1.000	1.375	1	4.00	2.024	2.719			
82									5.00					
83					28	1.250	1.625	1	4.00	2.550	2.719			
84									5.00					
85					32	1.437	1.875	1	4.00	2.600	2.719			
86			5.00											
87						44		20	.875	1.250	1	4.00	2.230	2.969
88												5.00		
89								24	1.000	1.375	1	4.00	2.024	2.969
90												5.00		
91	28	1.250	1.625	1	4.00	2.550	2.969							
92					5.00									
93	32	1.437	1.875	1	4.00	2.600	2.969							
94					5.00									
95	20	.875	1.250	1	4.00	2.230	3.219							
96					5.00									
97	24	1.000	1.375	1	4.00	2.024	3.219							
98					5.00									
99					4.00									
100	28	1.250	1.625	1	5.00	2.550	3.219							

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
81	2.92	2.000-18 UNS	-	6.14	6.66
82	3.92			7.14	7.66
83	2.92	2.250-16 UN	-	6.67	7.19
84	3.92			7.67	8.19
85	2.92	2.500-16 UN	-	6.72	7.24
86	3.92			7.72	8.24
87	2.92	1.750-18 UNS	-	6.35	6.87
88	3.92			7.35	7.87
89	2.92	2.000-18 UNS	-	6.14	6.66
90	3.92			7.14	7.66
91	2.92	2.250-16 UN	-	6.67	7.19
92	3.92			7.67	8.19
93	2.92	2.500-16 UN	-	6.72	7.24
94	3.92			7.72	8.24
95	2.92	1.750-18 UNS	-	6.35	6.87
96	3.92			7.35	7.87
97	2.92	2.000-18 UNS	-	6.14	6.66
98	3.92			7.14	7.66
99	2.92	2.250-16 UN	-	6.67	7.19
100	3.92			7.67	8.19

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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 +.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				
	101	61		48			32				
102	5.00										
103	12				.500		.750	1	3.00	1.916	1.653
104					4.00						
105	16				.625		.937	1	3.00	2.000	1.653
106									4.00		
107	20				.875		1.250	2	3.75	2.230	1.653
108									4.75		
109	24				1.000		1.375	2	3.75	2.024	1.653
110									4.75		
111	7	12	12,12S	12	10	.350	.500	1	2.00	1.844	.858
112	19	16	16,16S	16	6	.250	.437	1	2.00	1.544	1.112
113									3.00		
114	7	12	12,12S	12	4	.125	.312	1	2.00	1.544	.858
115									3.00		
116	12	14	14,14S	14	6	.250	.437	1	2.00	1.544	.984
117									3.00		
118	19	16	16,16S	16	16	.350	.625	1	2.00	1.844	1.112
119									3.00		

TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
101	2.92	2.500-16 UN	-	6.72	7.24
102	3.92			7.72	8.24
103	1.92	1.1875-18 UNEF	-	5.03	5.39
104	2.92			6.03	6.39
105	1.92	1.4375-18 UNEF	-	5.12	5.48
106	2.92			6.12	6.48
107	2.67	1.750-18 UNS	1.969	6.10	6.46
108	3.67			7.10	7.46
109	2.67	2.000-18 UNS	1.969	5.89	6.25
110	3.67			6.89	7.25
111	1.00	1.000-20 UNEF	-	3.96	4.32
112	1.00	.750-20 UNEF	-	3.66	4.02
113	2.00			4.66	5.02
114	1.00	.625-24 UNEF	-	3.66	4.02
115	2.00			4.66	5.02
116	1.00	.750-20 UNEF	-	3.66	4.02
117	2.00			4.66	5.02
118	0.92	1.000-20 UNEF	-	3.96	4.32
119	1.92			4.96	5.32

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TABLE I. DIMENSIONS (CONTINUED).

AS85049/10

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				
	120	27	18	18		18	4				
121	3.00										
122	27	18	18	18	6	.250	.437	1	2.00	1.544	1.218
123									3.00		
124	37	20	20	20	6	.250	.437	1	3.00	1.544	1.345
125									4.00		
126	27	18	18	18	4	.125	.312	1	3.00	1.544	1.468
127									4.00		
128	27	18	18	18	6	.250	.437	1	3.00	1.544	1.468
129									4.00		
130	27	18	18	18	10	.350	.625	1	3.00	1.844	1.593
131									4.00		
132	27	18	18	18	12	.500	.750	1	4.00	1.916	2.469
133									5.00		
134	27	18	18	18	12	.500	.750	1	4.00	1.916	2.719
135									5.00		
136	27	18	18	18	6	.250	.375	1	2.00	1.544	.734
137									3.00		
138	27	18	18	18	10	.350	.500	1	2.00	1.844	.858
139									3.00		

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TABLE I. DIMENSIONS (CONTINUED).

Dash No.	E Ref	V Thread Class 2A	F Dia Max	G Max	H Max
120	0.92	.625-24 UNEF	-	3.66	4.02
121	1.92			4.66	5.02
122	0.92	.750-20 UNEF	-	3.66	4.02
123	1.92			4.66	5.02
124	1.92	.750-20 UNEF	-	4.66	5.02
125	2.92			5.66	6.02
126	1.92	.625-24 UNEF	-	4.66	5.02
127	2.97			5.66	6.02
128	1.92	.750-20 UNEF	-	4.66	5.02
129	2.92			5.66	6.02
130	1.92	1.000-20 UNEF	-	4.96	5.32
131	2.92			5.96	6.32
132	2.92	1.1875-18 UNEF	-	6.04	6.56
133	3.92			7.04	7.56
134	2.92	1.1875-18 UNEF	-	6.04	6.56
135	3.92			7.04	7.56
136	1.06	.750-20 UNEF	-	3.66	4.02
137	2.06			4.66	5.02
138	1.06	1.000-20 UNEF	-	3.96	4.32
139	2.06			4.96	5.32

TABLE I. DIMENSIONS (CONTINUED).

AS85049/10

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																			
140	37	20	20	20	16	.625	.904	1	3.00	2.000	1.345										
141									4.00												
142	X	X	X	X	X	X	X	X	3.00	2.230	1.468										
143									22			22	22	20	.875	1.029	1	4.00			
144									24			24	24	20	.875	1.144	1	3.00	2.230	1.593	
145																		4.00			
146	X	X	X	X	X	X	X	X	4.00	2.600	2.469										
147									32			1.437	1.840	1	5.00						
148									36			X	X	X	X	X	X	X	4.00	2.000	2.469
149																			16		
150	12	14	14, 14S	14	4	.125	.312	1	2.00	1.544	.984										
151									3.00												
152	19	16	16, 16S	16	4	.125	.312	1	2.00	1.544	1.112										
153									3.00												
154	X	X	X	X	X	X	X	X	4.00	2.000	2.969										
155									44			.625	.937	1	5.00						
156									40			X	X	X	X	X	X	X	4.00	2.000	2.719
157																			16		

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