

**AS85049/43**

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THIRD ANGLE PROJECTION



ISSUED 1998-08

PREPARED BY SUBCOMMITTEE AE-8C1

**SAE** The Engineering Society  
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Land Sea Air and Space®  
400 Commonwealth Drive, Warrendale, PA 15096-0001

**AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,  
NONENVIRONMENTAL, 45°, CATEGORY 4B (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 7

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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.

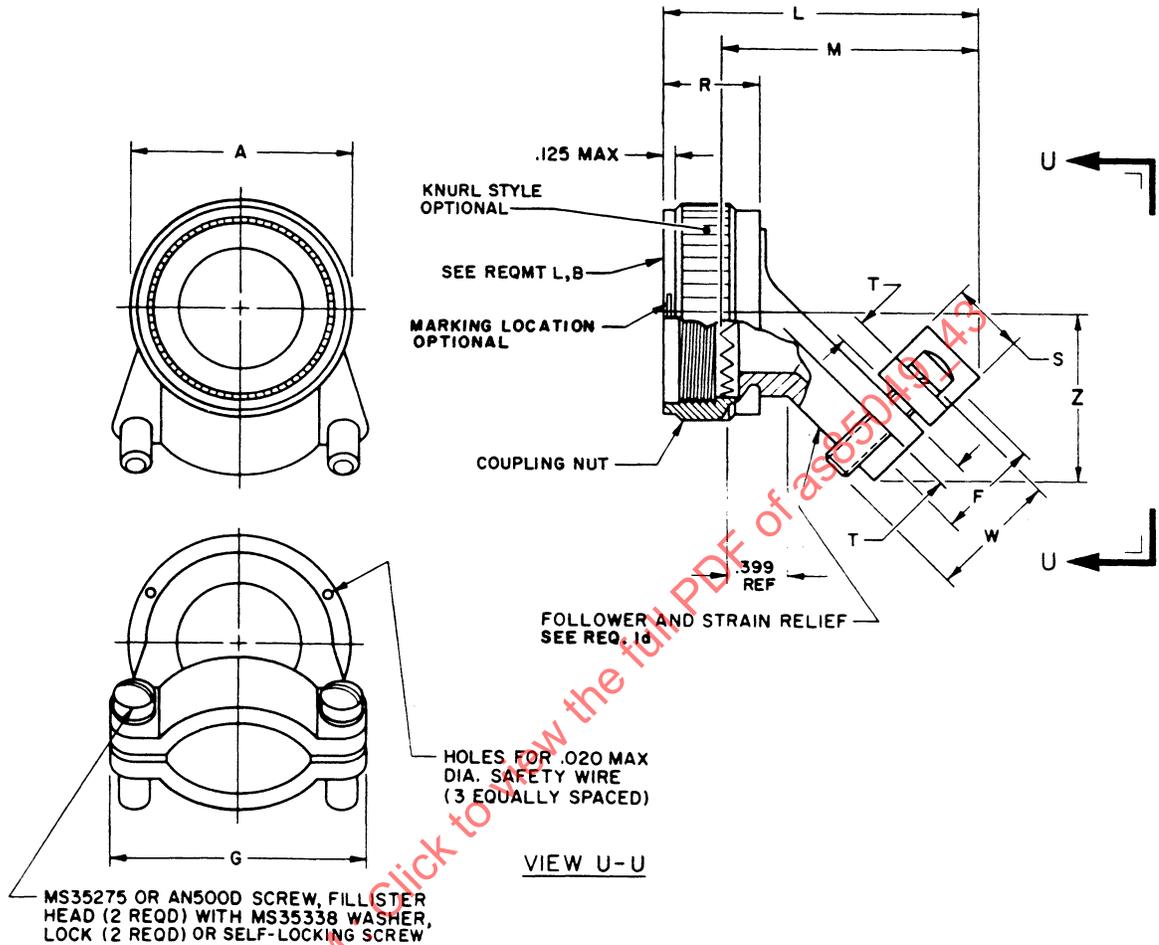


FIGURE 1. CONFIGURATION AND DIMENSIONS.

TABLE I. DIMENSIONS.

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Dash No.	For Connector Shell, Size (Ref)				A +.000 -.045 Dia	F (see note 4) Wire Bundle Accommodation Range		G +.020	L Max Closed
	MIL-C-81703 Series 3	MIL-C-26482 Series 2	MIL-C-5015 Crimp	MIL-C-83723 Series III		Max	Min		
	-3	3					.669		
-8		8	8S	8	.617	.204	.125	.732	1.490
-10		10	10S&10SL	10	.734	.286	.187	.812	1.534
-12	7	12	12S&12	12	.858	.416	.291	.968	1.608
-14	12	14	14S&14	14	.984	.476	.351	1.026	1.650
-16	19	16	16S&16	16	1.112	.625	.501	1.299	1.756
-18	27	18	18	18	1.218	.706	.518	1.431	1.874
-20	37	20	20	20	1.345	.831	.581	1.537	1.918
-22		22	22	22	1.468	.956	.644	1.633	1.962
-24		24	24	24	1.593	1.081	.706	1.755	2.006
-28			28		1.969	1.187	.750	2.000	2.301
-32			32		2.219	1.250	.875	2.366	2.389
-36			36		2.469	1.375	.938	2.476	2.433
-40			40		2.719	1.500	.938	2.546	2.434
-44			44		2.969	1.750	1.188	2.840	2.700
-48			48		3.219	1.875	1.312	3.324	2.788
-61	61				1.653	1.081	.706	1.755	2.006

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TABLE I. DIMENSIONS (CONTINUED).

Dash Number	M Max Closed	R +.000 -.062	S +.020	T +.015	Fillister Head Screw		Screw Size	Z Max	MS35338 Washer, Lock Dash Number
					AN500D Dash Number	MS35275 Dash Number			
-3	1.160	.540	.250	.125	6-8	230	6-32	.772	136
-8	1.160	↑	↑	↑	6-8	230	↑	.772	↑
-10	1.204	↑	↑	↑	6-8	230	↑	.803	↑
-12	1.278	↑	↑	↑	6-10	231	↑	.866	↑
-14	1.320	↑	↓	↓	6-10	231	↓	.928	↓
-16	1.426	↑	.250	.125	6-10	231	6-32	.991	136
-18	1.544	↑	.375	.156	8-12	247	8-32	1.110	137
-20	1.588	↑	↑	↑	8-14	248	↑	1.172	↑
-22	1.632	↓	↓	↓	8-16	249	↓	1.235	↓
-24	1.676	.540	.375	.156	8-18	N/A	↓	1.297	↓
-28	1.801	.702	.500	.188	8-20	250	8-32	1.543	137
-32	1.889	↑	↑	↑	416-20	284	1/4-20	1.668	139
-36	1.933	↑	↓	↓	416-24	285	↑	1.793	↑
-40	1.934	↑	.500	↓	416-24	285	↑	1.918	↑
-44	2.200	↓	.625	↓	416-28	286	↓	2.132	↓
-48	2.288	.702	.625	.188	416-32	287	1/4-20	2.257	139
-61	1.676	.540	.375	.156	8-18	N/A	8-32	1.204	137

N/A = Not Available

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INCH	mm	INCH	mm	INCH	mm
0.015	0.38	0.866	22.00	1.633	41.48
0.020	0.51	0.875	22.22	1.650	41.91
0.030	0.76	0.928	23.57	1.653	41.99
0.032	0.81	0.938	23.83	1.668	42.37
0.040	1.02	0.956	24.28	1.676	42.57
0.045	1.14	0.968	24.59	1.750	44.45
0.062	1.57	0.984	24.99	1.755	44.58
0.125	3.18	0.991	25.17	1.756	44.60
0.156	3.96	1.026	26.06	1.793	45.54
0.187	4.75	1.081	27.46	1.801	45.75
0.204	5.18	1.110	28.19	1.874	47.60
0.250	6.35	1.112	28.24	1.875	47.63
0.286	7.26	1.160	29.46	1.889	47.98
0.291	7.39	1.172	29.77	1.918	48.72
0.320	8.13	1.187	30.15	1.933	49.10
0.351	8.92	1.188	30.18	1.934	49.12
0.375	9.53	1.204	30.58	1.962	49.83
0.399	10.13	1.218	30.94	1.969	50.01
0.416	10.57	1.235	31.37	2.000	50.80
0.452	11.48	1.250	31.75	2.006	50.95
0.476	12.09	1.278	32.46	2.132	54.15
0.500	12.70	1.297	32.94	2.200	55.88
0.501	12.73	1.299	32.99	2.219	56.36
0.518	13.16	1.312	33.32	2.257	57.33
0.540	13.72	1.320	33.53	2.288	58.12
0.581	14.76	1.345	34.16	2.301	58.45
0.617	15.67	1.375	34.93	2.366	60.10
0.625	15.88	1.426	36.22	2.389	60.68
0.644	16.36	1.431	36.35	2.433	61.80
0.669	16.99	1.468	37.29	2.434	61.82
0.702	17.83	1.490	37.85	2.469	62.71
0.706	17.93	1.500	38.10	2.476	62.89
0.732	18.59	1.534	38.96	2.546	64.67
0.734	18.64	1.537	39.04	2.700	68.58
0.750	19.05	1.543	39.19	2.719	69.06
0.772	19.61	1.544	39.22	2.788	70.82
0.803	20.40	1.588	40.34	2.840	72.14
0.812	20.62	1.593	40.46	2.969	75.41
0.831	21.11	1.608	40.84	3.219	81.76
0.858	21.79	1.632	41.45	3.324	84.43

## REQUIREMENTS:

## 1. DESIGN AND CONSTRUCTION:

- a. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE I.
- b. INTERFACE DIMENSIONS SHALL BE IN ACCORDANCE WITH MIL-C-85049 FIGURE 4.
- c. THIS CLAMP WILL NOT ACCOMMODATE CONNECTORS USING SIZE 8, 4 AND 0 CONTACTS.
- d. ACCESSORY CONSISTS OF A COUPLING NUT AND FOLLOWER. THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE FOLLOWER.