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REV.
A

AS85049/43

FEDERAL SUPPLY CLASS
5935

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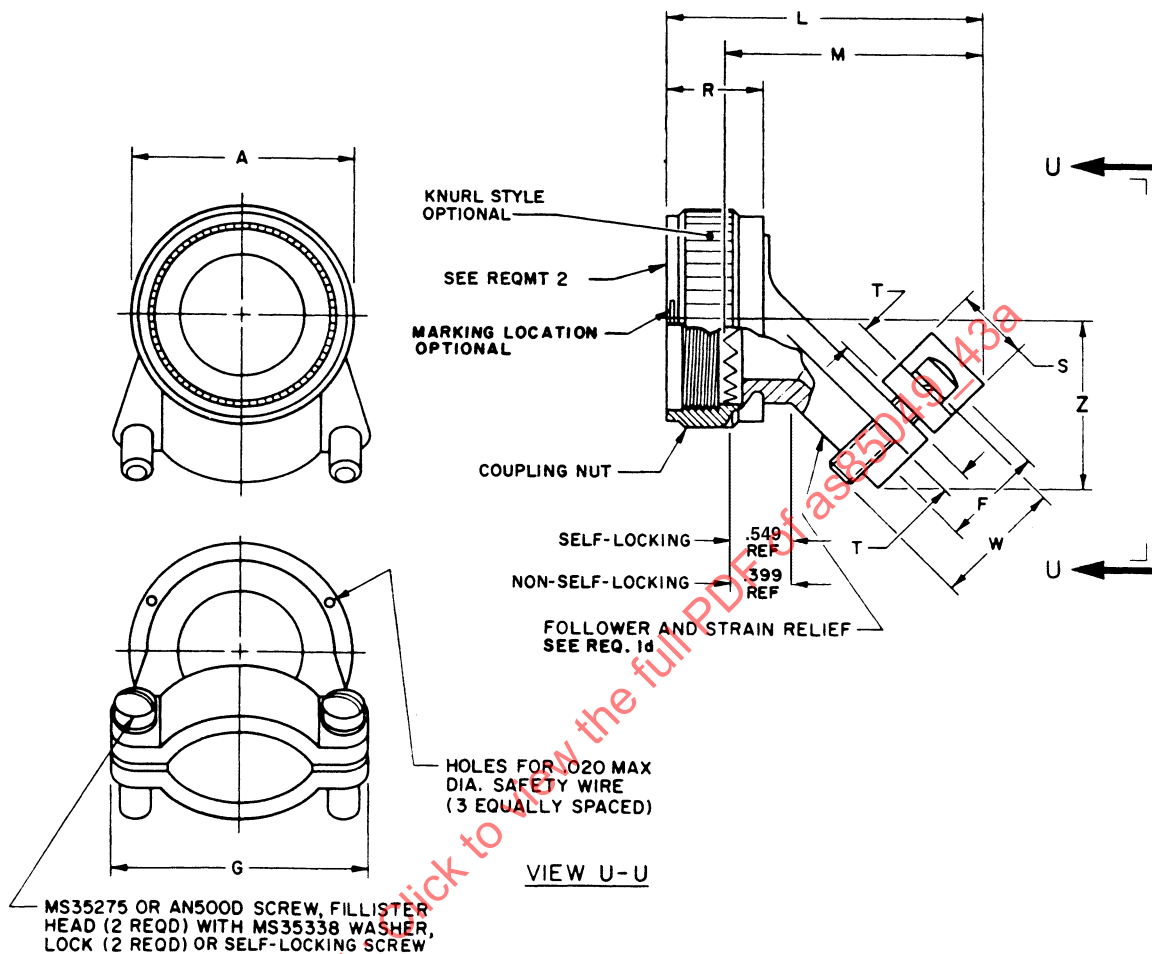
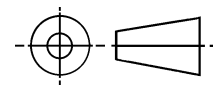


FIGURE 1 - CONFIGURATION AND DIMENSIONS
SELF-LOCKING OR NON-SELF-LOCKING

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
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AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, NON-ENVIRONMENTAL, SELF-LOCKING AND NON-SELF-LOCKING, 45°, CATEGORY 4B (FOR MIL-DTL-5015 CRIMP, MIL-C-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049/43
SHEET 1 OF 6

**REV.
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ISSUED 1998-08 REVISED 2003-06

TABLE I. DIMENSIONS

Dash No.	For Connector Shell, Size (Ref)				Non-Self-Locking				Self-Locking			
	AS81703 Series 3	MIL-C-26482 Series 2	MIL-DTL-5015 Crimp	MIL-DTL-83723 Series III	A Max Dia	L Max Closed	M Max	R Max	A Max Dia	L Max Closed	M Max	R Max
-3	3				.669	1.490	1.160	.540				
-8		8	8S	8	.617	1.490	1.160	↑	.885	1.650	1.320	.710
-10		10	10S&10SL	10	.734	1.534	1.204		1.010	1.694	1.364	.710
-12	7	12	12S&12	12	.858	1.608	1.278		1.135	1.768	1.438	.710
-14	12	14	14S&14	14	.984	1.650	1.320		1.260	1.810	1.480	.710
-16	19	16	16S&16	16	1.112	1.756	1.426	↑	1.385	1.916	1.586	.710
-18	27	18	18	18	1.218	1.874	1.544		1.510	2.034	1.704	.710
-20	37	20	20	20	1.345	1.918	1.588		1.635	2.078	1.748	.710
-22		22	22	22	1.468	1.962	1.632		1.760	2.122	1.792	.710
-24		24	24	24	1.593	2.006	1.676	.540	1.885	2.166	1.836	.710
-28			28		1.969	2.301	1.801	↑	2.135	2.461	1.961	.890
-32			32		2.219	2.389	1.889		2.395	2.549	2.049	.890
-36			36		2.469	2.433	1.933		2.635	2.593	2.093	.890
-40			40		2.719	2.434	1.934		2.885	2.599	2.094	.890
-44			44		2.969	2.700	2.200	↓	3.135	2.860	2.360	.890
-48			48		3.219	2.788	2.288	.702	3.385	2.948	2.448	.890
-61	61				1.653	2.006	1.676	.540				

N/A = Not Available

TABLE I. DIMENSIONS (CONTINUED).

Dash Number	F (see note 4) Wire Bundle Accommodation Range		S ±.020	T ±.015	Fillister Head Screw		Screw Size	Z Max	MS35338 Washer, Lock Dash Number	G Max
	Max	Min			AN500D Dash Number	MS35275 Dash Number				
-3	.204	.125	.250	.125	6-8	230	6-32	.772	136	.782
-8	.204	.125	↑	↑	6-8	230	↑	.772	↑	.782
-10	.286	.187	↑	↑	6-8	230	↑	.803	↑	.862
-12	.416	.291	↑	↑	6-10	231	↑	.866	↑	1.018
-14	.476	.351	↓	↓	6-10	231	↓	.928	↓	1.076
-16	.625	.501	.250	.125	6-10	231	6-32	.991	136	1.349
-18	.706	.518	.375	.156	8-12	247	8-32	1.110	137	1.481
-20	.831	.581	↑	↑	8-14	248	↑	1.172	↑	1.587
-22	.956	.644	↓	↓	8-16	249	↓	1.235	↓	1.688
-24	1.081	.706	.375	.156	8-18	N/A	↓	1.297	↓	1.805
-28	1.187	.750	.500	.188	8-20	250	8-32	1.543	137	2.050
-32	1.250	.875	↑	↑	416-20	284	1/4-20	1.668	139	2.416
-36	1.375	.938	↓	↓	416-24	285	↑	1.793	↑	2.526
-40	1.500	.938	.500	↓	416-24	285	↓	1.918	↓	2.596
-44	1.750	1.188	.625	↓	416-28	286	↓	2.132	↓	2.890
-48	1.875	1.312	.625	.188	416-32	287	1/4-20	2.257	139	3.374
-61	1.081	.706	.375	.156	8-18	N/A	8-32	1.204	137	1.805

N/A = Not Available

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. DIMENSIONS APPLY AFTER PLATING.
3. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 INCH = 25.4 MM.
4. "WIRE BUNDLE ACCOMMODATION RANGE" DIMENSION IS DEFINED AS THE ENVELOPE AREA FOR THE WIRE BUNDLE. THIS DIMENSION IS NOT MEANT TO DEFINE THE CLAMP HARDWARE LIMITS.
5. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.

REV. A						
AS85049/43	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
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