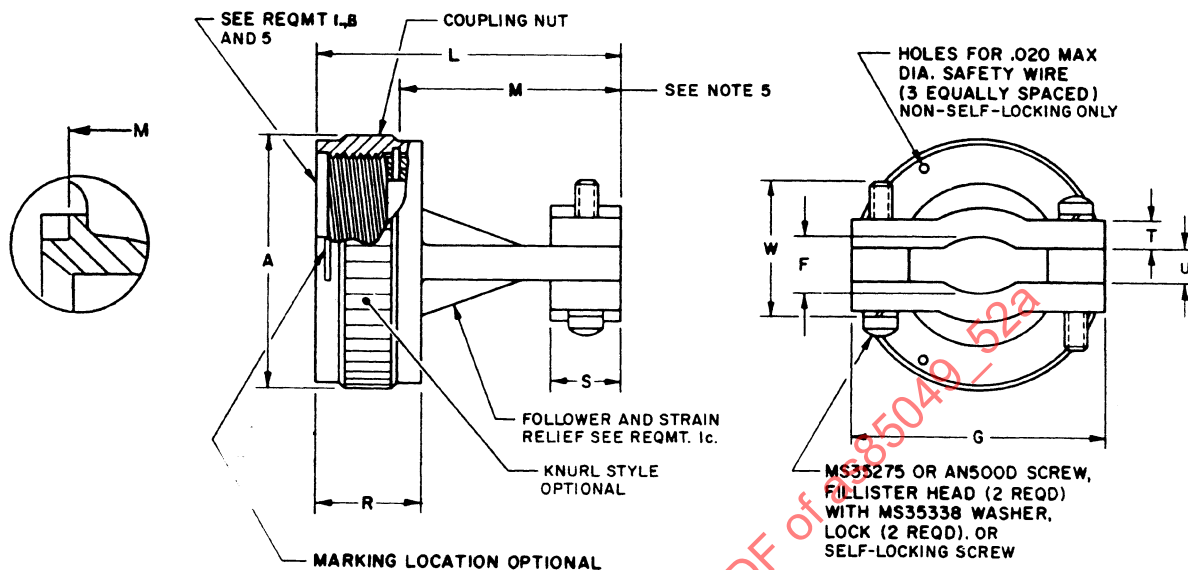


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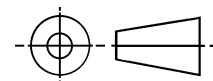
THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.



NON-SELF-LOCKING OR SELF-LOCKING COUPLING

FIGURE 1 - CONFIGURATION AND DIMENSIONS

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

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AEROSPACE STANDARD

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

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TABLE 1 - DIMENSIONS

Dash No.	For Connector Shell, Size (Ref)				Non-Self-Locking						Self-Locking			
	MIL-C-81703 Series 3	MIL-C-26482 Series 2	MIL-C-5015 Crimp	MIL-C-83723 Series III	A Max Dia	L +.062	M Max	R Max	Fillister Head Screw		A Max Dia	L Max	M Max	R Max
									AN500D Dash Number	MS35275 Dash Number				
-3	3				.669	.890	.63	.540	6-8	230				
-8		8	8S	8	.617	.890	.63		6-8	230	.885	1.04	.73	.710
-10		10	10S&10SL	10	.734	1.000	.74		6-8	230	1.010	1.16	.85	.710
-12	7	12	12S&12	12	.858	1.125	.86		6-10	231	1.135	1.29	.98	.710
-14	12	14	14S&14	14	.984	1.125	.86		6-10	231	1.260	1.29	.98	.710
-16	19	16	16S&16	16	1.112	1.250	.99		6-10	231	1.385	1.41	1.10	.710
-18	27	18	18	18	1.218	1.500	1.24		8-12	247	1.510	1.66	1.35	.710
-20	37	20	20	20	1.345	1.625	1.36		8-14	248	1.635	1.79	1.48	.710
-22		22	22	22	1.468	1.750	1.49		8-16	249	1.760	1.91	1.60	.710
-24		24	24	24	1.593	1.875	1.61	.540	8-18	N/A	1.885	2.04	1.73	.710
-28			28		1.969	2.187	1.76	.702	8-20	250	2.135	2.35	1.88	.890
-32			32		2.219	2.375	1.95		416-20	284	2.395	2.60	2.13	.890
-36			36		2.469	2.750	2.33		416-24	285	2.635	2.91	2.44	.890
-40			40		2.719	2.938	2.51		416-24	285	2.885	3.10	2.63	.890
-44			44		2.969	3.312	2.89		416-28	286	3.135	3.47	3.00	.890
-48			48		3.219	3.687	3.26	.702	416-32	287	3.385	3.87	3.40	.890
-61	61				.653	1.875	1.61	.640	8-18	N/A				

N/A = Not Available

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 (R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
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 STRAIGHT, CATEGORY 4B (FOR MIL-DTL-5015 CRIMP, MIL-DTL-26482
 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

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TABLE 1 - DIMENSIONS - CONTINUED

Non-Self-Locking and Self-Locking									
Dash Number	F (see Note 4)		G Max	S $\pm$.020	T $\pm$.015	U $\pm$.020	W $\pm$.032 Screw Length	Screw Size	MS35338 Washer Lock Dash Number
	Wire Bundle Accommodation Range								
	Max	Min							
-3 <u>1/</u>	.204	.125	.782		.125	.125	.500	6-32	136
-8	.204	.125	.782	↑	↑	↑	.500	6-32	↑
-10	.286	.187	.862				.500	6-32	
-12	.416	.291	1.003				.625	6-32	
-14	.476	.351	1.061	↓	↓	↓	.625	6-32	↓
-16	.625	.501	1.334	.250	.125	.125	.625	6-32	136
-18	.706	.518	1.466	.375	.156	.156	.750	8-32	137
-20	.831	.581	1.572	↑	↑	.156	.875	8-32	↑
-22	.956	.644	1.688	↓	↓	.156	1.000	8-32	
-24	1.081	.706	1.790	.375	.156	.188	1.125	8-32	↓
-28	1.187	.750	2.035	.500	.188	.250	1.250	8-32	137
-32	1.250	.875	2.386	↑	↑	.250	1.250	1/4-20	139
-36	1.375	.938	2.476	↓		.375	1.500	1/4-20	↑
-40	1.500	.938	2.566	.500		↑	1.500	1/4-20	
-44	1.750	1.188	2.860	.625	↓	↓	1.750	1/4-20	↓
-48	1.875	1.312	3.344	.625	.188	.375	2.000	1/4-20	139
-61 <u>1/</u>	1.081	.706	1.775	.375	.156	.188	1.125	8-32	137

1/ Not available on self-locking configuration.

REQUIREMENTS:

1. CONNECTOR ACCESSORY DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH SAE AS85049, FIGURE 3.

3. ACCESSORIES CONSIST OF A COUPLING NUT AND STRAIN RELIEF.

4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.

5. THE STRAIN RELIEF ACCOMMODATE SAE AS85049/127 BUSHING STRIP.

6. CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.

7. MATERIAL AND FINISH: SEE TABLE 2. ACCESSORIES SHALL BE AS SHOWN IN TABLE 2.

TABLE 2 - MATERIAL AND FINISH

Figure	Material	Finish
1	Aluminum alloy in accordance with SAE AS85049	N <u>1/</u> A W <u>2/</u>
1	Corrosion resistant steel in accordance with SAE AS85049	S

1/ Not for Navy use. Air Force use is for space applications only. W is the preferred finish.
2/ W is not for use in space application.

8. CLAMPS, SCREWS AND LOCK WASHERS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE.

9. SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.

10. SELF-LOCKING DEVICES DESIGN AND CONSTRUCTION: COUPLINGS WITH SELF-LOCKING DEVICES SHALL MEET ALL THE REQUIREMENTS SPECIFIED HEREIN FOR ITS SPECIFIC CATEGORY AND THE FOLLOWING ADDITIONAL TESTS:

a. LIFE CYCLE: SEE SAE AS85049, PARAGRAPH 4.6.15.

b. VIBRATION: SEE SAE AS85049, PARAGRAPH 3.5.4.1.

11. QUALIFICATION: SEE SAE AS85049, CATEGORY 4C.

12. QPL EVALUATING ACTIVITY: COMMANDING OFFICER, NAVAL AIR SYSTEMS COMMAND (CODE 4-4-4), 48298 SHAW ROAD, BUILDING 1461, UNIT 4, PATUXENT RIVER, MD 20670.