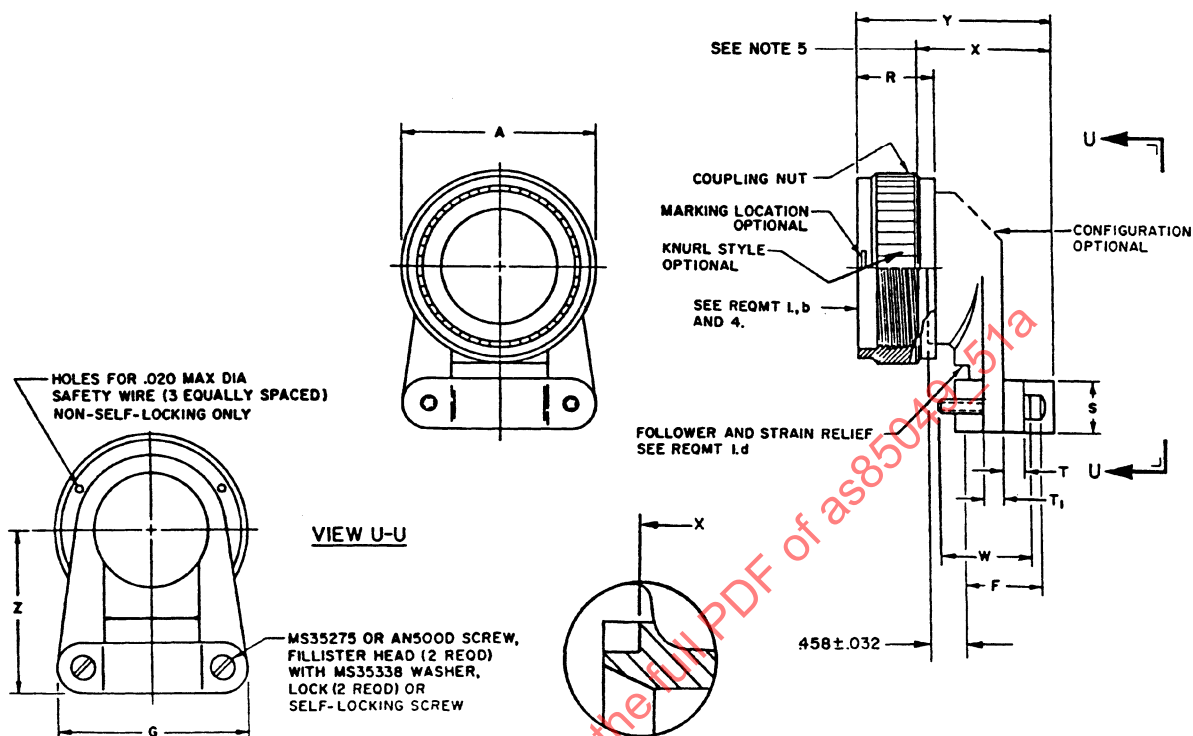


REV.
A

AS85049/51

FEDERAL SUPPLY CLASS
5935

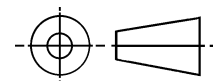
THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.



NON-SELF-LOCKING AND SELF-LOCKING

FIGURE 1 - CONFIGURATION AND DIMENSIONS

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, NONENVIRONMENTAL, 90°, SELF-LOCKING AND NON-SELF-LOCKING CATEGORY 4B (FOR MIL-DTL-5015 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049/51
SHEET 1 OF 7

**REV.
A**

REV.
A

AS85049/51

TABLE 1 - SHELL SIZE, DASH NUMBERS AND 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	R Max	Fillister Head Screw		X Max	Y Max	A Max Dia	R Max	X Max	Y Max
							AN500D Dash No.	MS35275 Dash No.						
-3	3				.669	.540	6-8	230	.78	1.101				
-8		8	8S	8	.617	↑	6-8	230	.78	1.101	.885	.710	.93	1.257
-10		10	10S&10SL	10	.734		6-8	230	.86	1.183	1.010	↑	1.02	1.339
-12	7	12	12S&12	12	.858		6-10	231	1.05	1.376	1.135		1.21	1.532
-14	12	14	14S&14	14	.984		6-10	231	1.11	1.436	1.260		1.27	1.592
-16	19	16	16S&16	16	1.112		6-10	231	1.26	1.585	1.385		1.42	1.741
-18	27	18	18	18	1.218		8-12	247	1.37	1.697	1.510		1.53	1.853
-20	37	20	20	20	1.345		8-14	248	1.50	1.822	1.635		1.65	1.978
-22		22	22	22	1.468	↓	8-16	249	1.62	1.947	1.760	↓	1.78	2.108
-24		24	24	24	1.593	.540	8-18	N/A	1.75	2.072	1.885	.710	1.90	2.228
-28			28		1.969	.702	8-20	250	1.89	2.372	2.135	.890	2.20	2.528
-32			32		2.219	↑	416-20	284	1.95	2.435	2.395	↑	2.27	2.591
-36			36		2.469		416-24	285	2.07	2.560	2.635		2.39	2.716
-40			40		2.719		416-24	285	2.20	2.685	2.885		2.52	2.841
-44			44		2.969	↓	416-28	286	2.45	2.935	3.135	↓	2.77	3.091
-48			48		3.219	.702	416-32	297	2.57	3.060	3.385	.890	2.89	3.216
-61	61				1.653	.540	8-18	N/A	1.75	2.072				

AEROSPACE STANDARD
 (R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
 NONENVIRONMENTAL, 90°, SELF-LOCKING AND NON-SELF-LOCKING
 CATEGORY 4B (FOR MIL-DTL-5015 CRIMP, MIL-DTL-26482 SERIES 2,
 AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

REV.
A

AS85049/51

TABLE 1 - SHELL SIZE, DASH NUMBERS AND DIMENSIONS (CONTINUED)

Non-Self-Locking and Self-Locking									
Dash No.	F (see Note 5) Wire Bundle Accommodation Range		G Max	S +.020	T T ₁ +.015	Z +.062	MS35338 Washer, Lock Dash Number	W +.032 Screw Length	Screw Size
	Max	Min							
-3 1/	.204	.125	.782	.250	.125	.777	136	.500	6-32
-8	.204	.125	.782	↑	↑	.746	↑	.500	↑
-10	.286	.187	.862	↑	↑	.805	↑	.500	↑
-12	.416	.291	1.003	↑	↑	.867	↑	.625	↑
-14	.476	.351	1.061	↓	↓	.930	↓	.625	↓
-16	.626	.501	1.334	.250	.125	.994	136	.625	6-32
-18	.706	.518	1.466	.375	.156	1.171	137	.750	8-32
-20	.831	.581	1.572	↑	↑	1.234	↑	.875	↑
-22	.956	.644	1.688	↓	↓	1.296	↑	1.000	↑
-24	1.081	.706	1.790	.375	.156	1.358	↓	1.125	↓
-28	1.187	.750	2.035	.500	.188	1.572	137	1.250	8-32
-32	1.250	.875	2.386	↑	↑	1.797	139	1.250	1/4-20
-36	1.375	.938	2.496	↑	↑	1.922	↑	1.500	↑
-40	1.500	.938	2.566	.500	↑	2.047	↑	1.500	↑
-44	1.750	1.188	2.860	.625	↓	2.296	↓	1.750	↓
-48	1.875	1.312	3.344	.625	.188	2.421	139	2.000	1/4-20
-61 1/	1.081	.706	1.775	.375	.156	1.388	137	1.125	8-32

1/ Not available on self-locking configuration.

SAE Aerospace
 An SAE International Group
AEROSPACE STANDARD
 (R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
 NONENVIRONMENTAL, 90°, SELF-LOCKING AND NON-SELF-LOCKING
 CATEGORY 4B (FOR MIL-DTL-5015 CRIMP, MIL-DTL-26482 SERIES 2,
 AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049/51
 SHEET 3 OF 7

REV.
A

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. QUALIFICATION IS REQUIRED FOR U.S. GOVERNMENT PROCUREMENT. THE QPL EVALUATING ACTIVITY, FOR U.S. DEPARTMENT OF DEFENSE PROCUREMENT PURPOSES, NAVAL AIR SYSTEMS COMMAND (CODE 4.4.4.3), 48142 SHAW ROAD, BLDG 3197, SUITE E, PATUXENT RIVER, MD 20670.