

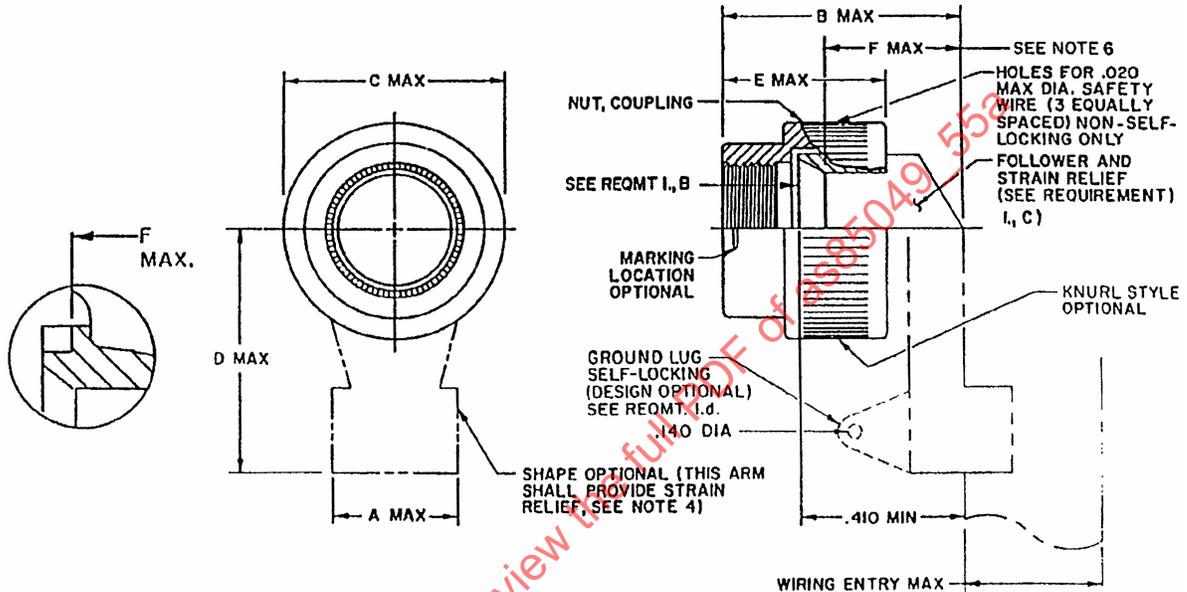
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AS85049/55

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.

INACTIVE FOR NEW DESIGN AFTER 30 NOVEMBER 1990.
FOR NEW DESIGN USE MIL-C-85049/51.

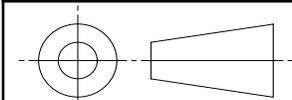


NON-SELF-LOCKING OR SELF-LOCKING

FIGURE 1. CONFIGURATION AND DIMENSIONS.

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

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AEROSPACE STANDARD

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

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ISSUED 2001-07 REVISED 2003-06

TABLE I. DASH NUMBERS, SHELL SIZE AND 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	B Max	C Max Dia	E Max	F Max	B Max	C Max Dia	E Max	F Max
03	3				.751	.782	.540	.431	1.05	1.010	.710	.73
08		8	8S	8	.751	.657	.540	.431	1.05	.885	.710	.73
10		10	10S, 10SL	10	.751	.782	.540	.431	1.05	1.010	.710	.73
12	7	12	12, 12S	12	.751	.937	.540	.431	1.05	1.135	.710	.73
14	12	14	14, 14S	14	.751	1.050	.540	.431	1.05	1.260	.710	.73
16	19	16	16, 16S	16	.751	1.239	.540	.431	1.05	1.385	.710	.73
18	27	18	18	18	.776	1.378	.540	.456	1.05	1.510	.710	.73
20	37	20	20	20	.776	1.500	.540	.456	1.07	1.635	.710	.75
22		22	22	22	.776	1.631	.540	.456	1.07	1.760	.710	.75
24		24	24	24	.776	1.750	.540	.456	1.07	1.885	.710	.75
28			28		.938	1.970	.702	.448	1.24	2.135	.890	.75

TABLE I. DIMENSIONS (CONTINUED).

Non-Self-Locking and Self-Locking			
Dash No.	A Max	D Max	Wiring Entry Max
03	.500	1.29	.260
08	.463	1.22	.260
10	.551	1.29	.365
12	.644	1.62	.501
14	.738	1.66	.575
16	.834	1.72	.700
18	.914	1.72	.779
20	1.00	1.79	.904
22	1.10	1.85	1.029
24	1.20	1.91	1.144
28	1.48	2.06	1.379

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INCH	mm	INCH	mm	INCH	mm	INCH	mm
0.015	0.380	0.702	17.830	1.010	25.650	1.480	37.590
0.030	0.760	0.710	18.030	1.029	26.130	1.500	38.100
0.140	3.550	0.730	18.540	1.050	26.670	1.510	38.350
0.260	6.600	0.738	18.740	1.070	27.170	1.620	41.140
0.365	9.270	0.750	19.050	1.100	27.940	1.631	41.420
0.431	10.940	0.751	19.070	1.135	28.820	1.635	41.520
0.448	11.370	0.776	19.710	1.144	29.050	1.660	42.160
0.456	11.580	0.779	19.780	1.200	30.480	1.720	43.680
0.463	11.760	0.782	19.860	1.220	30.980	1.750	44.450
0.500	12.700	0.834	21.180	1.239	31.470	1.760	44.700
0.501	12.720	0.885	22.470	1.240	31.490	1.796	45.610
0.540	13.710	0.890	22.600	1.260	32.000	1.858	46.990
0.551	13.990	0.904	22.960	1.290	32.760	1.885	47.870
0.575	14.600	0.914	23.210	1.378	35.000	1.910	48.510
0.644	16.350	0.937	23.790	1.379	35.020	2.060	52.320
0.657	16.680	0.938	23.820	1.385	35.170	2.135	54.220
0.700	17.780	1.000	25.400				

REQUIREMENTS:

SELF-LOCKING AND NON-SELF-LOCKING STYLES

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE I.
2. INTERFACE DIMENSIONS SHALL BE IN ACCORDANCE WITH SAE AS85049, FIGURE 4.
3. COMPLETE STRAIN RELIEF UNIT CONSISTS OF COUPLING NUT AND A FOLLOWER WITH STRAIN RELIEF ARM. THE COUPLING SHALL BE CAPTIVATED TO THE FOLLOWER AND ROTATABL.
4. GROUNDING LUG IS NOT FOR NAVY USE, NOT FOR NEW DESIGN FOR AIR FORCE.
5. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.
6. MATERIAL AND FINISH: SEE TABLE II.

TABLE II. MATERIAL AND FINISH.

	Material	Finish
Coupling nut and follower	Aluminum alloy in accordance with MIL-C-85049	1/ W A
Tie mount	Polyamid (optional)	None
Fastener	Stainless steel (optional)	None
Self-Locking Device	Corrosion resistant material	None

1/ W finish is not for use in space application.

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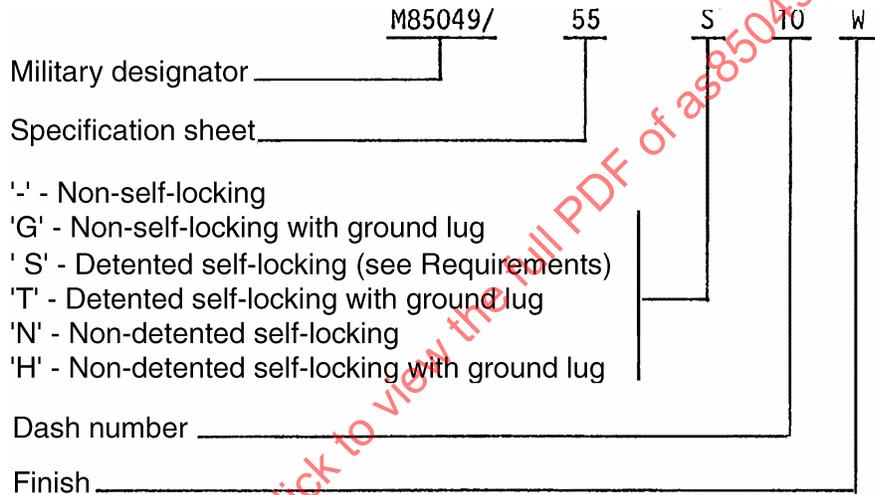
SELF-LOCKING DEVICES DESIGN AND CONSTRUCTION:

1. 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.

QUALIFICATION:

1. SEE SAE AS85049, CATEGORY 4C
2. 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.

PART NUMBER: SEE EXAMPLE BELOW:



SUPERSESSION DATA:

