

REV.
C

SAE AS85049/55

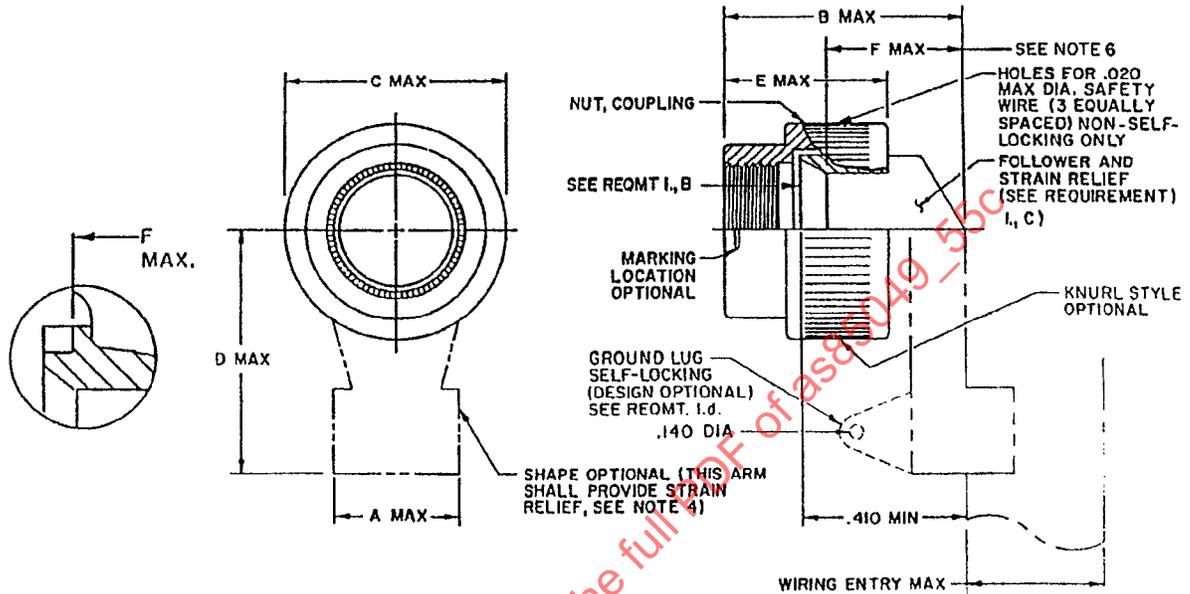
RATIONALE

FEDERAL SUPPLY CLASS
5935

THIS REVISION IS REQUIRED TO INCORPORATE THE OUTSTANDING AMENDMENT, REVIEW FOR KNOWN TECHNICAL ISSUES AND UPDATE TO MEET SAE FORMAT GUIDELINES.

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049. SEE APPLICATION NOTE 1.

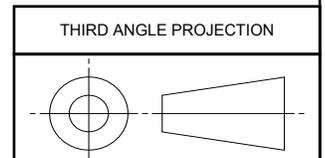


NON-SELF-LOCKING OR SELF-LOCKING

FIGURE 1 - CONFIGURATION AND DIMENSIONS

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
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AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, NON-ENVIRONMENTAL, 90°, SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4C (FOR AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

SAE AS85049/55
SHEET 1 OF 4

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ISSUED 2001-07 REVISED 2011-03

TABLE 1 - DASH NUMBERS, SHELL SIZE AND DIMENSIONS

DASH NUMBER	FOR CONNECTOR SHELL SIZE (REF)				NON-SELF-LOCKING				SELF-LOCKING			
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP	MIL-DTL-83723 SERIES III	B MAX	C MAX	E DIA MAX	F MAX	B MAX	C MAX	E DIA MAX	F MAX
03	3	--	--	--	.751 (19.08)	.782 (19.86)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	1.010 (25.65)	.710 (18.03)	.73 (18.54)
08	--	8	8S	8	.751 (19.08)	.657 (16.69)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	.885 (22.48)	.710 (18.03)	.73 (18.54)
10	--	10	10S,10SL	10	.751 (19.08)	.782 (19.86)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	1.010 (25.65)	.710 (18.03)	.73 (18.54)
12	7	12	12,12S	12	.751 (19.08)	.937 (23.80)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	1.135 (28.83)	.710 (18.03)	.73 (18.54)
14	12	14	14,14S	14	.751 (19.08)	1.050 (26.67)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	1.260 (32.00)	.710 (18.03)	.73 (18.54)
16	19	16	16,16S	16	.751 (19.08)	1.239 (31.47)	.540 (13.72)	.431 (10.95)	1.05 (26.67)	1.385 (35.18)	.710 (18.03)	.73 (18.54)
18	27	18	18	18	.776 (19.71)	1.378 (35.00)	.540 (13.72)	.456 (11.58)	1.05 (26.67)	1.510 (38.35)	.710 (18.03)	.73 (18.54)
20	37	20	20	20	.776 (19.71)	1.500 (38.10)	.540 (13.72)	.456 (11.58)	1.07 (27.18)	1.635 (41.53)	.710 (18.03)	.75 (19.05)
22	--	22	22	22	.776 (19.71)	1.631 (41.43)	.540 (13.72)	.456 (11.58)	1.07 (27.18)	1.760 (44.70)	.710 (18.03)	.75 (19.05)
24	--	24	24	24	.776 (19.71)	1.750 (44.45)	.540 (13.72)	.456 (11.58)	1.07 (27.18)	1.885 (47.88)	.710 (18.03)	.75 (19.05)
28	--	--	28	--	.938 (23.83)	1.970 (50.04)	.702 (17.83)	.448 (11.38)	1.24 (31.50)	2.135 (54.23)	.890 (22.61)	.75 (19.05)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NUMBER	A MAX	D MAX	WIRING ENTRY MAX
03	.500 (12.70)	1.29 (32.77)	.260 (6.60)
08	.463 (11.76)	1.22 (30.99)	.260 (6.60)
10	.551 (14.00)	1.29 (32.77)	.365 (9.27)
12	.644 (16.36)	1.62 (41.15)	.501 (12.73)
14	.738 (18.75)	1.66 (42.16)	.575 (14.61)
16	.834 (21.18)	1.72 (43.69)	.700 (17.78)
18	.914 (23.22)	1.72 (43.69)	.779 (19.79)
20	1.00 (25.40)	1.79 (45.47)	.904 (22.96)
22	1.10 (27.94)	1.85 (46.99)	1.029 (26.14)
24	1.20 (30.48)	1.91 (48.51)	1.144 (29.06)
28	1.48 (37.59)	2.06 (52.32)	1.379 (35.03)

REQUIREMENTS:

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

TABLE 2 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
COUPLING NUT AND FOLLOWER	ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049	3/A, 1/ N, 2/ W, X, 3/Y, 2/ Z
TIE MOUNT	POLYAMIDE (OPTIONAL)	NONE
FASTENER	STAINLESS STEEL (OPTIONAL)	NONE
SELF-LOCKING DEVICE	CORROSION RESISTANT MATERIAL	NONE

1/ NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.

2/ W AND Z FINISH NOT FOR USE IN SPACE APPLICATIONS. ALSO SEE SPECIFICATION NOTES.

3/ NOT AVAILABLE FOR "G", "H" AND "T" CONFIGURATIONS.

5. QUALIFICATION: SEE SAE AS85049, CATEGORY 4C
6. PART NUMBER: SEE EXAMPLE BELOW:

