

REV.
C

SAE AS85049/63

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/63B-A1 AMENDMENT. ALIGN SPECIFICATION WITH SAE GUIDELINES AND REVIEWED SPECIFICATION FOR KNOWN TECHNICAL ISSUES.

NOTICE

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

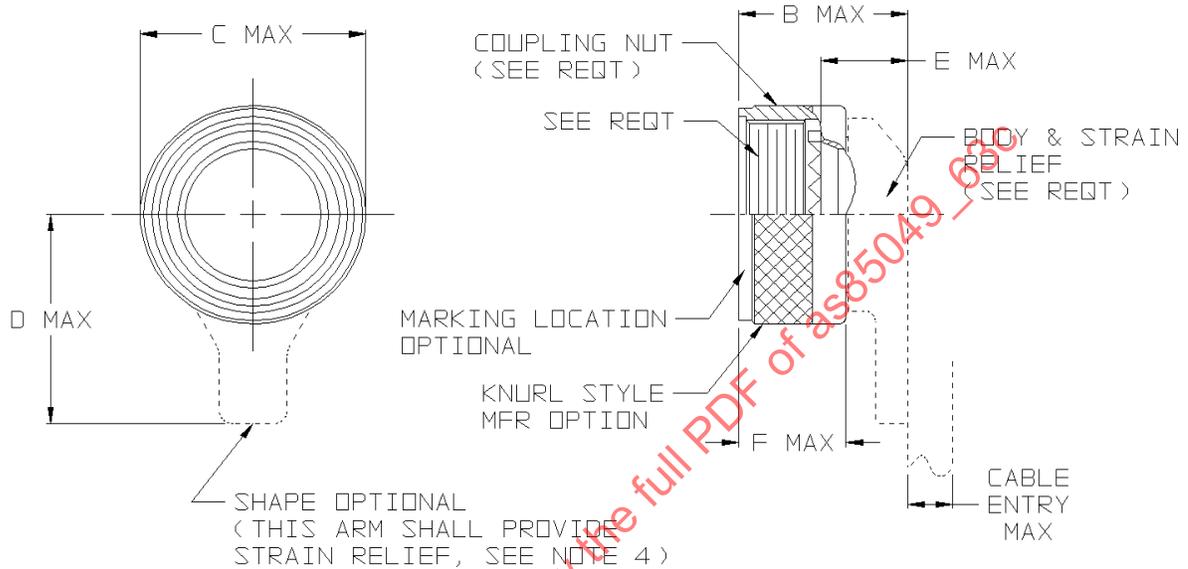


FIGURE 1 - DIMENSIONS AND CONFIGURATION (SELF-LOCKING AND NON-SELF-LOCKING)

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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, 90°, SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4C (MIL-DTL-38999 SERIES I AND II CONNECTORS)

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SHEET 1 OF 4

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ISSUED 2000-05 REVISED 2011-02

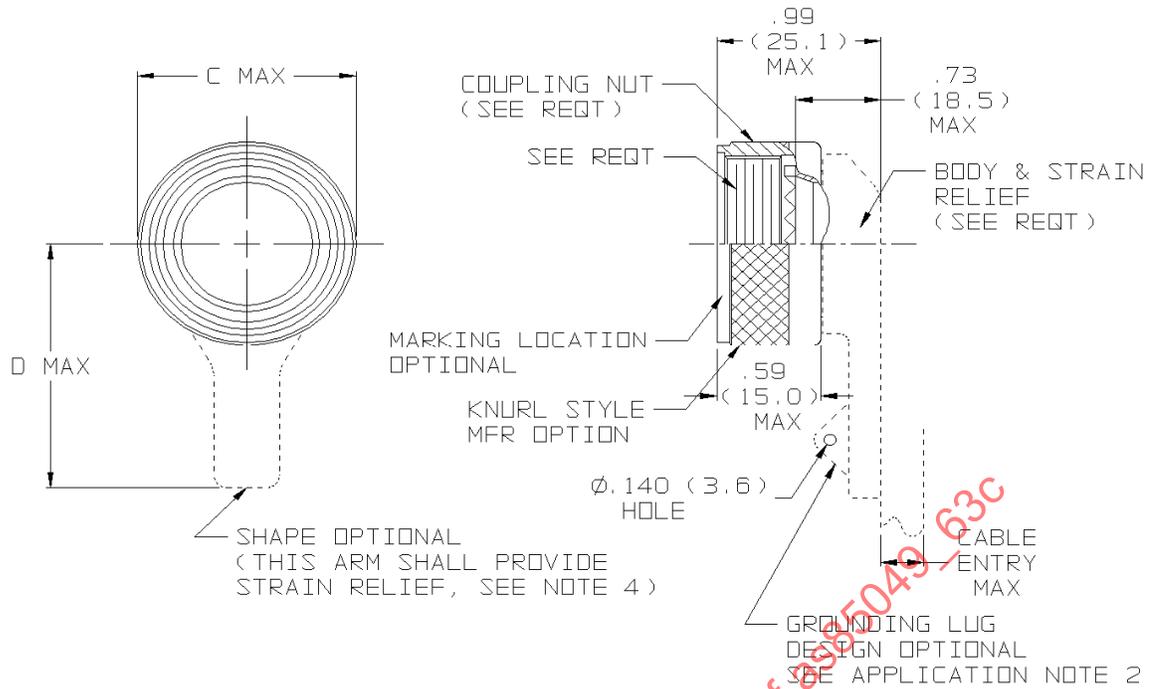


FIGURE 2 - DIMENSIONS AND CONFIGURATIONS (SELF-LOCKING ONLY WITH GROUNDING LUG)

TABLE 1 – FIGURE 1 AND 2 DASH NUMBER AND DIMENSIONS

DASH NUMBER	CONNECTOR SHELL SIZE		B MAX	C MAX		D MAX	E MAX	F MAX		CABLE ENTRY MAX
	SERIES II	SERIES I		SELF-LOCKING	NON-SELF-LOCKING			SELF-LOCKING	NON-SELF-LOCKING	
8	8	9	.99 (25.1)	.86 (21.8)	.75 (19.1)	1.22 (31.0)	.69 (17.5)	.590 (15.0)	.540 (13.7)	.264 (6.7)
10	10	11	.99 (25.1)	.98 (24.9)	.85 (21.6)	1.29 (32.8)	.69 (17.5)	.590 (15.0)	.540 (13.7)	.392 (10.0)
12	12	13	.99 (25.1)	1.16 (29.5)	1.00 (25.4)	1.62 (41.1)	.69 (17.5)	.590 (15.0)	.540 (13.7)	.506 (12.9)
14	14	15	.99 (25.1)	1.28 (32.5)	1.10 (27.9)	1.66 (42.2)	.70 (17.8)	.590 (15.0)	.540 (13.7)	.631 (16.0)
16	16	17	.99 (25.1)	1.41 (35.8)	1.25 (31.8)	1.72 (43.7)	.70 (17.8)	.590 (15.0)	.540 (13.7)	.756 (19.2)
18	18	19	.99 (25.1)	1.52 (38.6)	1.40 (35.6)	1.72 (43.7)	.73 (18.5)	.590 (15.0)	.540 (13.7)	.845 (21.5)
20	20	21	.99 (25.1)	1.64 (41.7)	1.50 (38.1)	1.79 (45.5)	.73 (18.5)	.590 (15.0)	.540 (13.7)	.970 (24.6)
22	22	23	.99 (25.1)	1.77 (45.0)	1.65 (41.9)	1.85 (47.0)	.73 (18.5)	.590 (15.0)	.540 (13.7)	1.095 (27.8)
24	24	25	.99 (25.1)	1.89 (48.0)	1.75 (44.5)	1.91 (48.5)	.73 (18.5)	.590 (15.0)	.540 (13.7)	1.220 (31.0)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE IN PARENTHESES AND ARE GIVEN FOR GENERAL INFORMATION ONLY.
3. UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: .XX = ± .03 AND .XXX = ± .015 ANGULAR TOLERANCES X = ± 2.
4. ACCESSORIES ARE NOT RECOMMENDED FOR CONNECTORS USING COAX, DATA BUS SIZE 8 CONDUCTORS. USE SAE AS85049/123. WHEN USED WITH MAXIMUM DENSITY ARRANGEMENTS, CLAMP MAY OPEN OUTER WIRE SEALS
5. STRAIN RELIEF UNIT IS USED WITH SAE AS33671-1-X PLASTIC STRAP (SEE APPLICATION NOTE 1) QUALIFIED IN ACCORDANCE WITH AS23190, MIL-T-713 LACING TWINE OR AA-52080-AA-52084 LACING TAPE OR EQUIVALENT, NOT SUPPLIED WITH THE CONNECTOR ACCESSORY.

REQUIREMENTS:

1. DESIGN AND CONSTRUCTION:
 DIMENSIONS AND CONFIGURATIONS: SEE TABLE 1 AND FIGURES 1 AND 2.
2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH SAE AS85049, FIGURE 2.
3. ACCESSORY: CONSISTS OF A COUPLING NUT AND BODY WITH STRAIN RELIEF ARM. THE COUPLING NUT SHALL BE CAPTIVATED TO THE BODY AND SHALL BE ROTATEABLE.
4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION "N" IS A FREE SPINNING SELF-LOCKING COUPLING.
5. MATERIAL: IN ACCORDANCE WITH SAE AS85049.
 - a. COUPLING NUT AND FOLLOWER: ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049.
 - b. TIE MOUNT: POLYAMIDE (OPTIONAL).
 - c. FASTENER: STAINLESS STEEL (OPTIONAL).
 - d. SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.
6. FINISH:
 - 3/ A ANODIZE (BLACK)
 - 1/ N ELECTROLESS NICKEL
 - 2/ W CADMIUM, OLIVE DRAB
 - X NICKEL FLUOROCARBON POLYMER
 - 3/ Y PURE DENSE ELECTRODEPOSITED ALUMINUM
 - 2/ Z ZINC NICKEL
 - 1/ N FINISH NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.
 - 2/ W AND Z FINISH ARE NOT FOR USE IN SPACE APPLICATIONS. ALSO SEE SPECIFICATION NOTES.
 - 3/ A AND Y FINISH NOT AVAILABLE WITH CONFIGURATION "G" OR "H".

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