

REV.
B

SAE AS85049/16

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/16A-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.

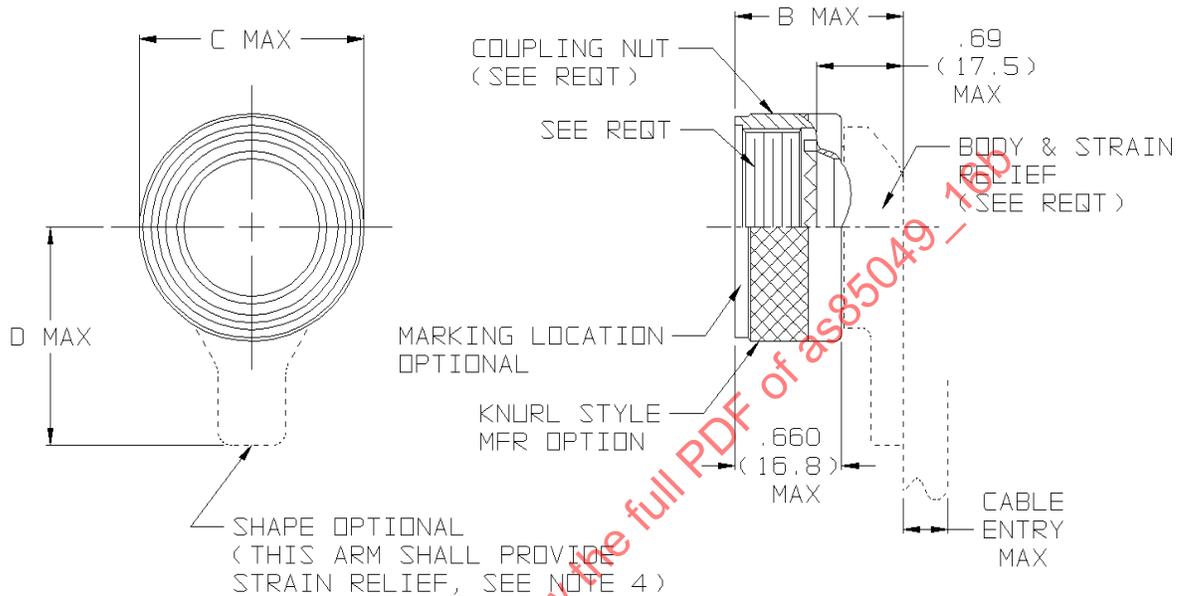
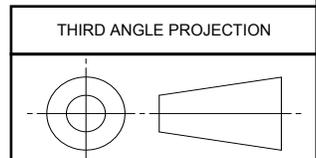


FIGURE 1 – DIMENSIONS AND CONFIGURATION (NON-SELF-LOCKING AND SELF-LOCKING)

SAENORM.COM : Click to view the full PDF of as85049-16

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85049/16B>



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90°, NON-SELF-LOCKING AND SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

SAE AS85049/16
SHEET 1 OF 4

REV. B

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

ISSUED 2000-01 REAFFIRMED 2009-06 REVISED 2011-02

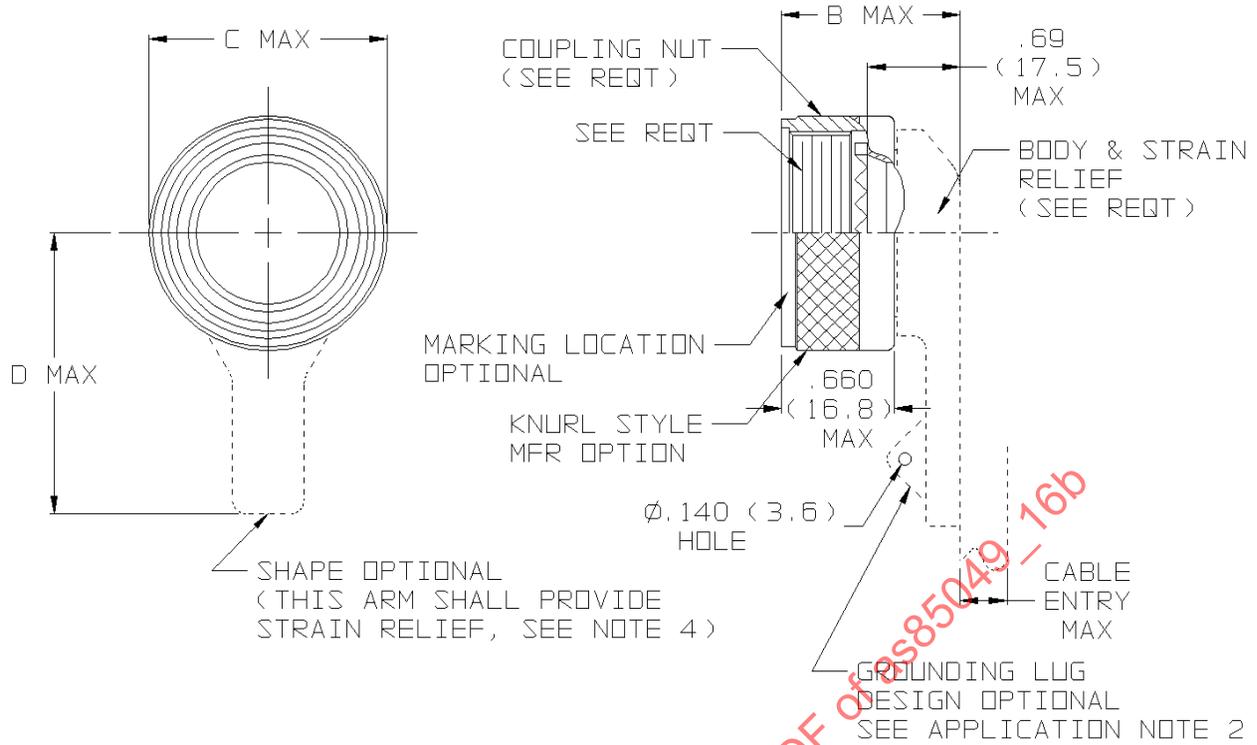


FIGURE 2 – DIMENSIONS AND CONFIGURATION (SELF-LOCKING ONLY WITH GROUND LUG)

TABLE 1 – FIGURE 1 AND 2 SHELL SIZE AND DIMENSIONS

SHELL SIZE	SHELL SIZE CODE (REF)	B MAX	C DIA MAX	D MAX	CABLE ENTRY MAX
9	A	.99 (25.1)	.858 (21.79)	1.22 (31.0)	.264 (6.71)
11	B	.99 (25.1)	.984 (24.99)	1.29 (32.8)	.392 (9.96)
13	C	.99 (25.1)	1.157 (29.39)	1.62 (41.1)	.506 (12.85)
15	D	.99 (25.1)	1.279 (32.49)	1.66 (42.2)	.631 (13.03)
17	E	.99 (25.1)	1.406 (35.71)	1.72 (43.7)	.756 (19.20)
19	F	.99 (25.1)	15.16 (38.51)	1.72 (43.7)	.845 (21.46)
21	G	.99 (25.1)	1.642 (41.71)	1.79 (45.5)	.970 (24.64)
23	H	.99 (25.1)	1.768 (44.91)	1.85 (47.0)	1.095 (27.81)
25	J	.99 (25.1)	1.889 (47.98)	1.91 (48.5)	1.220 (30.99)

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 = $\pm .03$ AND .XXX = $\pm .015$ ANGULAR TOLERANCES X = ± 2 .
4. ACCESSORIES ARE NOT RECOMMENDED FOR CONNECTORS USING COAX, DATA BUS SIZE 8 CONDUCTORS. USE SAE AS85049/126. 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 3.
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".