

REV.
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AS85049™/15

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RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CLARIFY THE SAFETY WIRE HOLE REQUIREMENTS IN FIGURE 1 FOR THE NON-SELF-LOCKING COUPLING NUT CONFIGURATION.

AS85049/15D HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

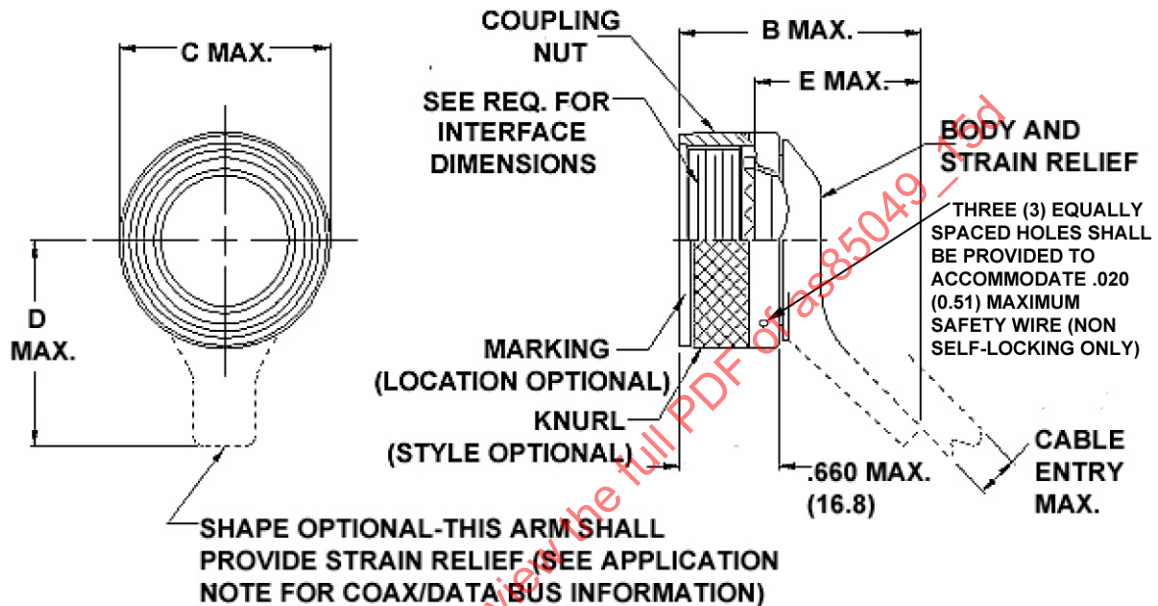
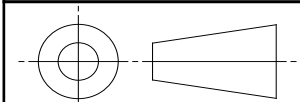


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATIONS (NON-SELF-LOCKING AND SELF-LOCKING)

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/15D/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
45°, NON-SELF-LOCKING AND SELF-LOCKING, CATEGORY 4C
(FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049™/15
SHEET 1 OF 4

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ISSUED 2000-04 REVISED 2019-04 REAFFIRMED 2025-02

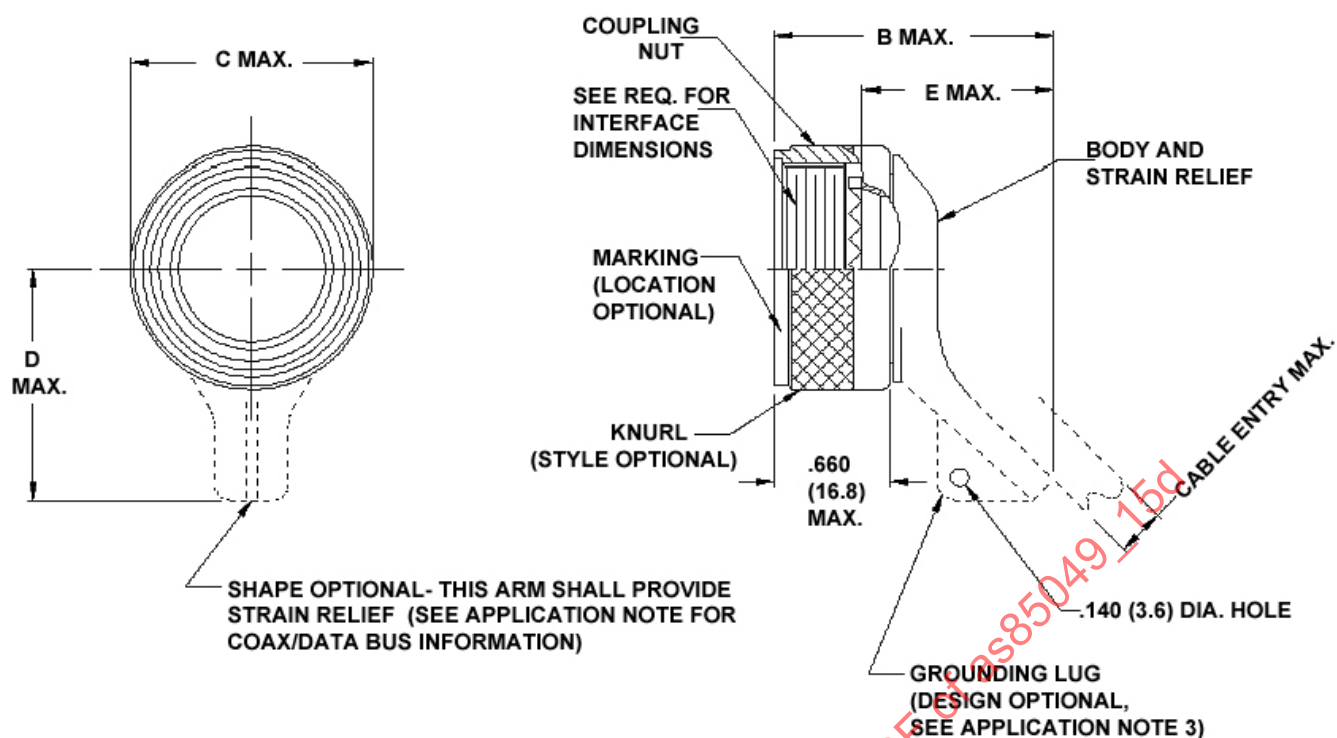


FIGURE 2 - ACCESSORY DIMENSIONS AND CONFIGURATION (SELF-LOCKING ONLY WITH GROUND LUG)

TABLE 1 - FIGURE 1 AND 2 SHELL SIZES AND DIMENSIONS

SHELL SIZE	SHELL SIZE CODE (REF)	B MAX	C DIA. MAX	D MAX	E MAX	CABLE ENTRY MAX
9	A	1.43 (36.3)	.858 (21.79)	.88 (22.4)	1.03 (26.2)	.264 (6.71)
11	B	1.43 (36.3)	.984 (24.99)	.88 (22.4)	1.03 (26.2)	.392 (9.96)
13	C	1.43 (36.3)	1.157 (29.39)	.94 (23.9)	1.03 (26.2)	.506 (12.85)
15	D	1.93 (49.0)	1.279 (32.49)	1.25 (31.8)	1.09 (27.7)	.631 (16.03)
17	E	1.93 (49.0)	1.406 (35.71)	1.31 (33.3)	1.11 (28.2)	.756 (19.20)
19	F	2.03 (51.6)	1.516 (38.51)	1.38 (35.1)	1.21 (30.7)	.845 (21.46)
21	G	2.09 (53.1)	1.642 (41.71)	1.50 (38.1)	1.26 (32.0)	.970 (24.64)
23	H	2.09 (53.1)	1.768 (44.91)	1.69 (42.9)	1.30 (33.0)	1.095 (27.81)
25	J	2.24 (56.9)	1.889 (47.98)	1.75 (44.5)	1.34 (34.0)	1.220 (30.99)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 AND 2 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: .XX = ±.03 AND .XXX = ±.015 ANGULAR TOLERANCES X = ±2. METRIC EQUIVALENTS ARE IN PARENTHESIS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 3 OR 3A.

ACCESSORY: CONSISTS OF A COUPLING NUT AND BODY WITH STRAIN RELIEF ARM. THE COUPLING NUT SHALL BE CAPTIVATED TO THE BODY AND SHALL BE FREE TO ROTATE.

2. STRAIN RELIEF UNIT IS USED WITH AS33671-1-X PLASTIC STRAP (SEE APPLICATION NOTE 1) QUALIFIED IN ACCORDANCE WITH AS23190, MIL-DTL-713 LACING TWINE OR AA-52080-AA-52084 LACING TAPE OR EQUIVALENT, NOT SUPPLIED WITH THE CONNECTOR ACCESSORY.
3. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION “N” IS A FREE SPINNING SELF-LOCKING COUPLING.
4. MATERIAL AND FINISH: AS SPECIFIED IN TABLE 2 AND AS LISTED BELOW.

COUPLING NUT AND FOLLOWER: ALUMINUM ALLOY IN ACCORDANCE WITH AS85049.

TIE MOUNT: POLYAMIDE (OPTIONAL).

FASTENER: STAINLESS STEEL (OPTIONAL).

SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.

TABLE 2 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1 & 2	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	A <u>3</u> , N <u>1</u> , W <u>2</u> , X, Y <u>3</u> , Z <u>2</u>

- 1/ N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.
- 2/ W AND Z FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).
- 3/ A AND Y FINISH NOT AVAILABLE WITH CONFIGURATION “G” OR “H”.

5. PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:

