REV E

AS85049™/50

stabilized, or cancelled. SAE invites your written comments and suggestions entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user. reaffirmed, SAE reviews each technical report at least every five years at which time it may be revised,

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**RATIONALE** 

LIMITED SCOPE REVISION IS REQUIRED TO REPLACE THE SECOND DASH (-) IN THE PART NUMBER EXAMPLE, IT WAS INADVERTENTLY OMITTED ON A PREVIOUS REVISION.

AS85049/50E 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.

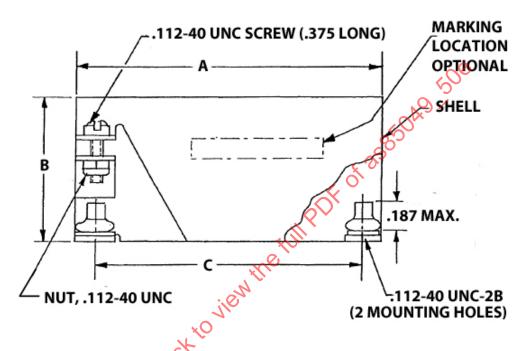


FIGURE 1 - ACCESSORY CONFIGURATIONS AND DIMENSIONS

For more information on this standard, visit https://www.sae.org/standards/content/AS85049/50E/

SSUED THIRD ANGLE PROJECTION

CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



## **AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90°, CATEGORY 4C (FOR MIL-DTL-24308 CONNECTORS)

AS85049™/50 SHEET 1 OF 4

REV. Ε

REAFFIRMED 2025-02

**REVISED 2019-04** 

2000-05

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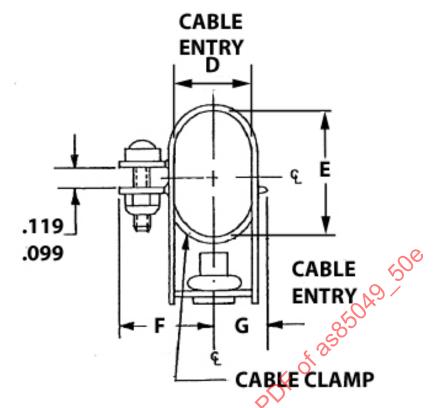


FIGURE 1 - ACCESSORY CONFIGURATIONS AND DIMENSIONS (CONTINUED)

## TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.099	2.51	.119	3.02	.187	4.75	.375	9.53

#### TABLE 2 - FIGURE 1 DIMENSIONS

			_110						
PART NUMBER		SHELL	.0						
STEEL	NONMAGNETIC (BRASS)	CLAC	А	В	С	D	E	F	G
M85049/50-1	M85049/50-6	1	1.218 (30.94) 1.188 (30.18)	.748 (19.00) .688 (17.48)	.989 (25.12) .979 (24.87)	.467 (11.86) .407 (10.34)	.467 (11.86) .407 (10.34)		.311 (7.90) .251 (6.38)
M85049/50-2	M85049/50-7	2	1.546 (39.27) 1.516 (38.51)	.748 (19.00) .688 (17.48)	1.317 (33.45) 1.307 (33.20)	.467 (11.86) .407 (10.34)	.467 (11.86) .407 (10.34)		.311 (7.90) .251 (6.38)
M85049/50-3	M85049/50-8	3	2.093 (53.16) 2.063 (52.40)	.998 (25.35) .938 (23.83)		.467 (11.86) .407 (10.34)	.655 (16.64) .595 (15.11)		.311 (7.90) .251 (6.38)
M85049/50-4	M85049/50-9	4		1.217 (30.91) 1.157 (29.39)		.467 (11.86) .407 (10.34)	.842 (21.39) .782 (19.86)		.311 (7.90) .251 (6.38)
M85049/50-5	M85049/50-10	5	2.640 (67.06) 2.610 (66.29)	1.280 (32.51) 1.220 (30.99)	2.411 (61.24) 2.401 (60.99)	.592 (15.04) .532 (13.51)	.936 (23.77) .876 (22.25)	.561 (14.25) .501 (12.73)	.373 (9.47) .313 (7.95)



# **AEROSPACE STANDARD**

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

DESIGN AND CONSTRUCTION:

THE ACCESSORY SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM.

- 2. SCREWS AND NUTS ARE SHOWN ASSEMBLED FOR REFERENCE ONLY AND ARE TO BE SHIPPED UNASSEMBLED IN A COMMON CONTAINER WITH THE ACCESSORY.
- MATERIAL AND FINISH: SEE TABLE 3.

FINISH DESIGNATOR:

FINISH F - YELLOW CHROMATE OVER CADMIUM IN ACCORDANCE WITH AMS-QQ-P-416.

FINISH N - ELECTROLESS NICKEL IN ACCORDANCE WITH AS85049.

TABLE 3 - MATERIAL AND FINISH

				M <sup>-</sup>	
		MATERIAL	FINISH		
DASH NUMBER	SHELL	CABLE CLAMP	SCREW/NUT <u>1</u> /	SHELL/CABLE CLAMP	SCREW/NUT <u>1</u> /
1 2 3 4 5	LOW CARBON	LOW CARBON SHEET STEEL	STEEL 2/	F 3/	F <u>3</u> / <u>4</u> /
1 2 3 4 5	SHEET STEEL	SAE 1010 .024 THICK	300 SERIES CORROSION RESISTANT STEEL 9	N	PASSIVATE
6 7 8 9 10	BRASS IN ACCORDANCE WITH ASTM B36 COMPOSITION C26000	BRASS IN ACCORDANCE WITH ASTM B36 COMPOSITION C26000, 1/2 HARD	BRASS 6/	F <u>3</u> /	F <u>3</u> / <u>4</u> /
6 7 8 9 10			300 SERIES CORROSION RESISTANT STEEL <u>5</u> /	N <u>7</u> /	PASSIVATE

<sup>1/</sup> RIVNUTS (OR EQUIVALENT) SHALL BE ALUMINUM ALLOY IN ACCORDANCE WITH AS85049, ANODIZED PER MIL-A-8625, TYPE II, CLASS 1 (CLEAR) OR CLASS 2 (BLACK).

2/ STEEL NUTS SHALL BE MS21083N04 TYPE.

5/ CORROSION RESISTANT NUTS SHALL BE MS21083C04 TYPE.

6/ BRASS NUTS SHALL BE MS21083B04 TYPE.

7/ CLASS N FINISH IS NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.



<sup>3/</sup> CLASS F FINISH IS NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (SEE SPECIFICATION NOTES).

<sup>4/</sup> CADMIUM PLATED SCREWS AND NUTS SHALL BE IN ACCORDANCE WITH AMS-QQ-P-416.