

REV.
C

AS85049™/58

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, REMOVE IMAGES, ADD METRIC EQUIVALENTS FOR FIGURE 1 DIMENSIONS, AND CLARIFY RESTRICTIONS.

NOTICE

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

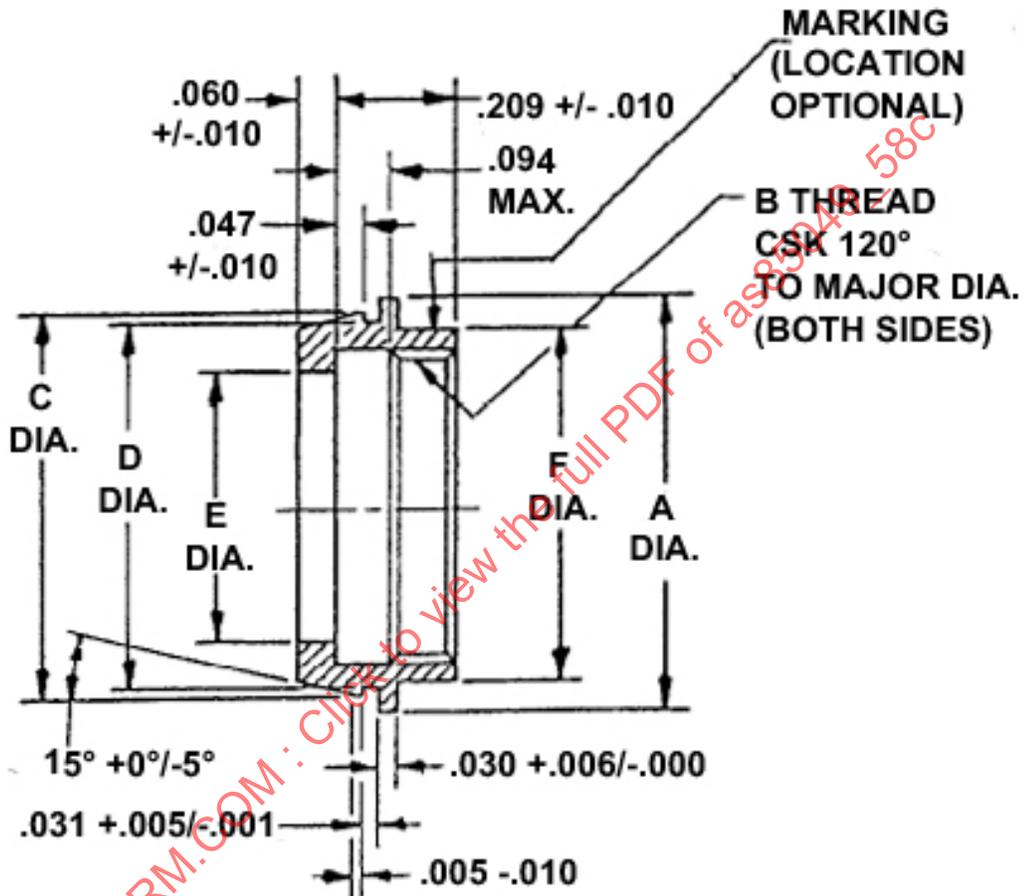
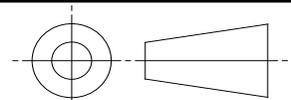


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/58/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL,
RING, POTTING BOOT, CATEGORY 5
(MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/58
SHEET 1 OF 3

REV.
C

SAE Executive Standards Committee 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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.001	0.03	.010	0.25	.047	1.19	.209	5.31
.005	0.13	.030	0.76	.060	1.52		
.006	0.15	.031	0.79	.094	2.39		

TABLE 2 - FIGURE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBER	FITS CONNECTOR SHELL SIZE		A	B	C	D	E	F
	SERIES II	SERIES I	MAXIMUM	THREAD	+0.01 (0.03)	+0.03 (0.08)	±0.05 (0.13)	+0.06 (0.15)
			DIAMETER	UNEF CLASS 2B	-0.05 (0.13)	-0.02 (0.05)	DIAMETER	DIAMETER
8	8	9	.600 (15.24)	.4375-28	.541 (13.74)	.518 (13.16)	.344 (8.74)	.500 (12.70)
10	10	11	.726 (18.44)	.5625-24	.666 (16.92)	.643 (16.33)	.472 (11.99)	.625 (15.88)
12	12	13	.850 (21.59)	.6875-24	.790 (20.07)	.767 (19.48)	.586 (14.88)	.750 (19.05)
14	14	15	.976 (24.79)	.8125-20	.915 (23.24)	.892 (22.66)	.711 (18.06)	.875 (22.23)
16	16	17	1.102 (27.99)	.9375-20	1.033 (26.24)	1.005 (25.53)	.836 (21.23)	1.000 (25.40)
18	18	19	1.226 (31.14)	1.0625-18	1.157 (29.39)	1.126 (28.60)	.942 (23.93)	1.125 (28.58)
20	20	21	1.352 (34.34)	1.1875-18	1.282 (32.56)	1.251 (31.78)	1.067 (27.10)	1.250 (31.75)
22	22	23	1.476 (37.49)	1.3125-18	1.407 (35.74)	1.376 (34.95)	1.192 (30.28)	1.375 (34.93)
24	24	25	1.602 (40.69)	1.4375-18	1.532 (38.91)	1.501 (38.13)	1.317 (33.45)	1.500 (38.10)

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

1. DESIGN AND CONSTRUCTION:

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

2. MATERIAL: ALUMINUM ALLOY IN ACCORDANCE WITH AS85049.

3. FINISH: IN ACCORDANCE WITH AS85049. SEE TABLE 3.

TABLE 3 - FINISH

FINISH LETTER	DESCRIPTION
NONE	<u>2</u> / W - CADMIUM, OLIVE DRAB
N	<u>1</u> / N - ELECTROLESS NICKEL
X	X - NICKEL FLUOROCARBON POLYMER
Y	Y - PURE DENSE ELECTRODEPOSITED ALUMINUM
Z	<u>2</u> / Z - ZINC NICKEL, BLACK

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).

	AEROSPACE STANDARD	AS85049™/58 SHEET 2 OF 3	REV. C
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, RING, POTTING BOOT, CATEGORY 5 (MIL-DTL-38999 SERIES I AND II CONNECTORS)		