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REV.
C

AS85049™/46

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, REMOVE IMAGES, ADD FINISH TABLE, CLARIFY RESTRICTIONS, AND CHANGE THE APPLICATION NOTE TO READ: "FOR U.S. DEPARTMENT OF DEFENSE CONTRACTS (AIR FORCE AND NAVY) THIS PRODUCT SHALL ONLY BE USED ON EXISTING DESIGNS".

NOTICE

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

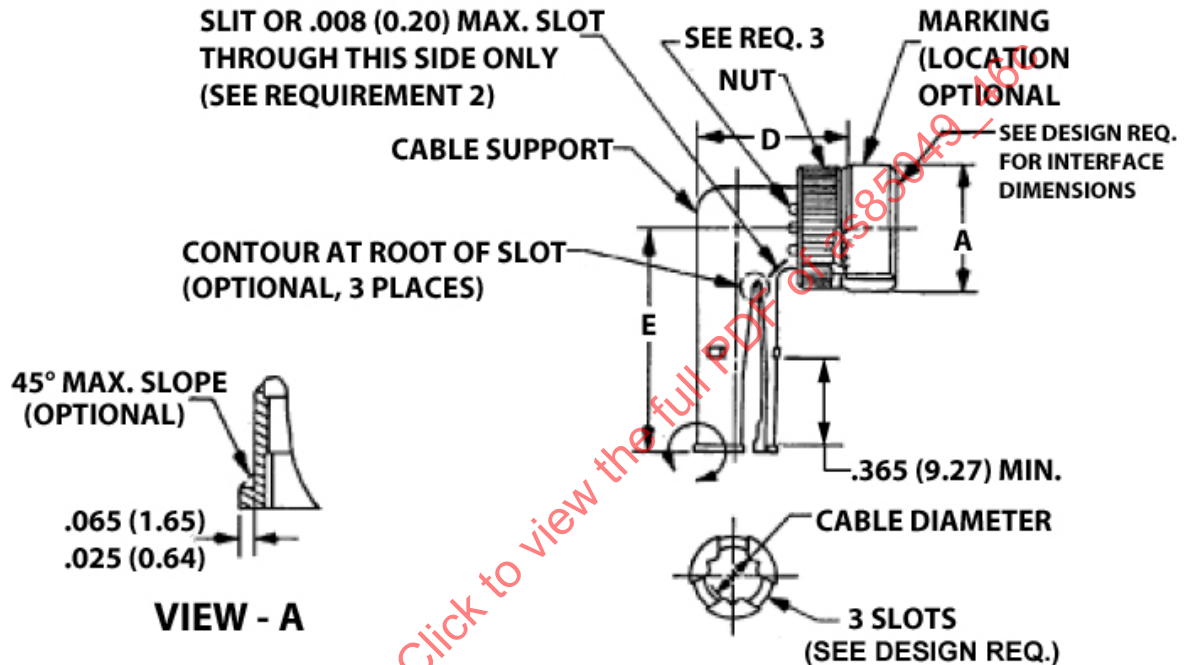
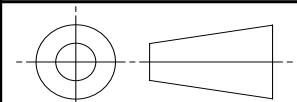


FIGURE 1 ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/46C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
90°, NONMETALLIC, CATEGORY 4C (FOR MIL-DTL-27599 SERIES I
AND MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/46
SHEET 1 OF 3

REV.
C

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ISSUED 2000-05 REVISED 2016-11 REAFFIRMED 2021-07

TABLE 1 – FIGURE 1 DIMENSIONS

DASH NUMBER	SHELL SIZE		A MAX.	D MAX.	E MAX.	CABLE DIAMETER (REF.)	
	SERIES II	SERIES I				MIN.	MAX.
8	8	9	.578 (14.68)	.656 (16.66)	1.015 (25.78)	.094 (2.39)	.203 (5.16)
10	10	11	.703 (17.86)	.688 (17.48)	1.062 (26.97)	.141 (3.58)	.250 (6.35)
12	12	13	.828 (21.03)	.750 (19.05)	1.125 (28.58)	.172 (4.37)	.323 (8.20)
14	14	15	.953 (24.21)	.859 (21.82)	1.328 (33.73)	.203 (5.16)	.422 (10.72)
16	16	17	1.078 (27.38)	.937 (23.80)	1.392 (35.36)	.234 (5.94)	.500 (12.70)
18	18	19	1.203 (30.56)	1.000 (25.40)	1.453 (36.91)	.265 (6.73)	.562 (14.27)
20	20	21	1.328 (33.73)	1.062 (26.97)	1.609 (40.87)	.297 (7.54)	.625 (15.88)
22	22	23	1.453 (36.91)	1.141 (28.98)	1.656 (42.06)	.328 (8.33)	.703 (17.86)
24	24	25	1.578 (40.08)	1.203 (30.56)	1.719 (43.66)	.359 (9.12)	.765 (19.43)

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 1. 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. POSITION OF SLOTS RELATIVE TO OPPOSITE OPENING IS OPTIONAL.

INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 2

2. A SLIT OR SLOT MUST BREAK THROUGH ELBOW IN AREA INDICATED TO FACILITATE ASSEMBLY OR DISASSEMBLY OF SUPPORT FROM NUT.
3. THE CABLE SUPPORT MUST CONTAIN A MINIMUM OF 3 DRAIN HOLES ON -8 THROUGH -12 AND A MINIMUM OF 7 DRAIN HOLES ON -14 THROUGH -24. EACH DRAIN HOLE MUST HAVE A MINIMUM CROSS SECTION OF .005 INCHES² (0.13 MM²)
4. MATERIAL AND FINISH: AS SPECIFIED IN TABLE 2 AND AS LISTED BELOW.

CABLE SUPPORT: NONMETALLIC

TABLE 2 - MATERIAL AND FINISH

NUT	MATERIAL	FINISH
	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	A, W <u>1</u> /, X, Y, Z <u>1</u> /

1/ W AND Z FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

5. TEMPERATURE RATING:

- a. -65 TO +250 °F CONTINUOUS.
- b. +345 °F FOR 10 MINUTE INTERVALS.
- c. +420 °F FOR 1 MINUTE INTERVALS.
- d. ESTIMATE CUMULATIVE LIFE, 24 HOURS AT 345 °F AND 7 HOURS AT 420 °F.

	AEROSPACE STANDARD		AS85049™/46 SHEET 2 OF 3	REV. C
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90°, NONMETALLIC, CATEGORY 4C (FOR MIL-DTL-27599 SERIES I AND MIL-DTL-38999 SERIES I AND II CONNECTORS)			