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REV.
A

AS85049™/147

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CORRECT THE BOOT NOTE TO ALIGN WITH LATEST AS85049/80 REVISION, UPDATE THE FOOTNOTE DESCRIPTION, AND CLARIFY HARDWARE REQUIREMENT FOR SHELL SIZE 25.

AS85049/147A 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.

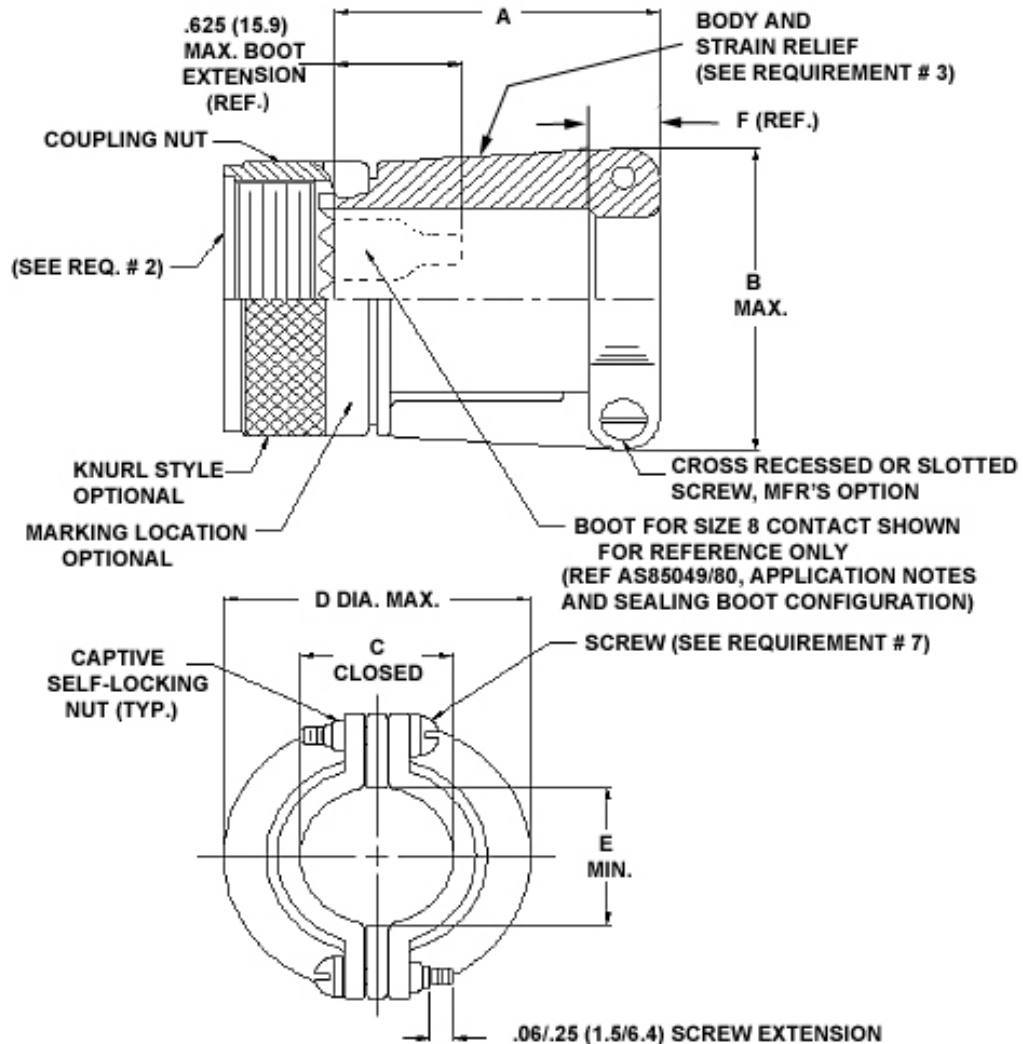
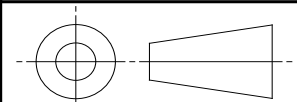


FIGURE 1 - DIMENSION AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/147A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

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

AS85049™/147
SHEET 1 OF 3

REV.

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Documents

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TABLE 1 - SHELL SIZES AND DIMENSIONS

CONNECTOR SHELL SIZE	SHELL SIZE CODE (REF)	A LENGTH 1/	B MAX	C ±.031 DIM 2/	D MAX DIA	E MIN	F REF	SCREW SIZE (REF)
09	A	1.35/1.41 (34.3/35.8)	.92 (23.4)	.219 (5.56)	.858 (21.79)	.22 (5.6)	.25 (6.4)	4-40
11	B	1.47/1.53 (37.3/38.9)	.97 (24.6)	.264 (6.71)	.984 (24.99)	.27 (6.9)	.25 (6.4)	4-40
13	C	1.60/1.66 (40.6/42.2)	1.19 (30.2)	.344 (8.74)	1.157 (29.39)	.35 (8.9)	.25 (6.4)	4-40
15	D	1.60/1.66 (40.6/42.2)	1.31 (33.3)	.460 (11.68)	1.279 (32.49)	.47 (11.9)	.25 (6.4)	4-40
17	E	1.72/1.78 (43.7/45.2)	1.44 (36.6)	.545 (13.84)	1.406 (35.71)	.55 (14.0)	.25 (6.4)	4-40
19	F	1.97/2.03 (50.0/51.6)	1.56 (39.6)	.615 (15.62)	1.516 (34.50)	.62 (15.7)	.38 (9.5)	6-32
21	G	2.09/2.15 (53.1/54.6)	1.69 (42.9)	.698 (17.73)	1.642 (41.70)	.70 (17.8)	.38 (9.5)	6-32
23	H	2.22/2.28 (56.4/57.9)	1.75 (44.5)	.780 (19.81)	1.768 (44.91)	.78 (19.8)	.38 (9.5)	6-32
25	J	2.35/2.41 (59.7/61.2)	1.88 (47.8)	.850 (21.59)	1.869 (47.98)	.85 (21.6)	.38 (9.5)	6-32 3/

1/ THE "A" DIMENSION IS MEASURED FROM THE BOTTOM OF THE ACCESSORY TEETH TO THE END OF THE STRAIN RELIEF.

2/ CABLE ENTRY IS MEASURED WITH SADDLE BARS CLOSED AND BOTTOMED ON CLAMP EARS.

3/ AN 8-32 SCREW SIZE MAY BE SUPPLIED AT MFR OPTION.

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

DESIGN AND CONSTRUCTION:

- CONNECTOR ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 MM = 1 INCH.
- INTERFACE DIMENSIONS SHALL CONFORM TO AS85049, FIGURE 3A.
- ACCESSORIES CONSIST OF A COUPLING NUT AND STRAIN RELIEF. THE COUPLING NUT SHALL BE CAPTIVATED TO, AND ROTATABLE ON THE BODY.
- DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.
- CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
- MATERIAL AND FINISH: SEE TABLE 2. ACCESSORIES SHALL BE AS SHOWN IN TABLE 2.
- LOCKNUTS AND SCREWS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE. SILVER PLATE OPTIONAL.
- SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.
- CONTACT SUPPORT: THIS STRAIN RELIEF MUST BE USED WITH THE FOLLOWING MILITARY INSERT ARRANGEMENTS; 17-2, 19-18, 21-75, 25-7, 25-8, 25-20, 25-46 AND 25-90 TO PREVENT SPLAYING OF THE CONTACTS AND ELIMINATE DAMAGE TO THE CONTACT AND CONNECTOR DURING MATING. IN ORDER TO SEAL THE CONTACT SIZE #8 CAVITY OF THESE INSERTS, AN ADDITIONAL BOOT IS REQUIRED AND IS SUPPLIED BY THE CONNECTOR MANUFACTURER.

	AEROSPACE STANDARD	AS85049™/147 SHEET 2 OF 3	
	CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, EXTENDED, STRAIGHT SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)		

