

**REV.
D**

AS85049™/126

RATIONALE

REVISION IS REQUIRED TO CHANGE THE FIGURE 1 DRAIN HOLE REQUIREMENT TO A MINIMUM.

NOTICE

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

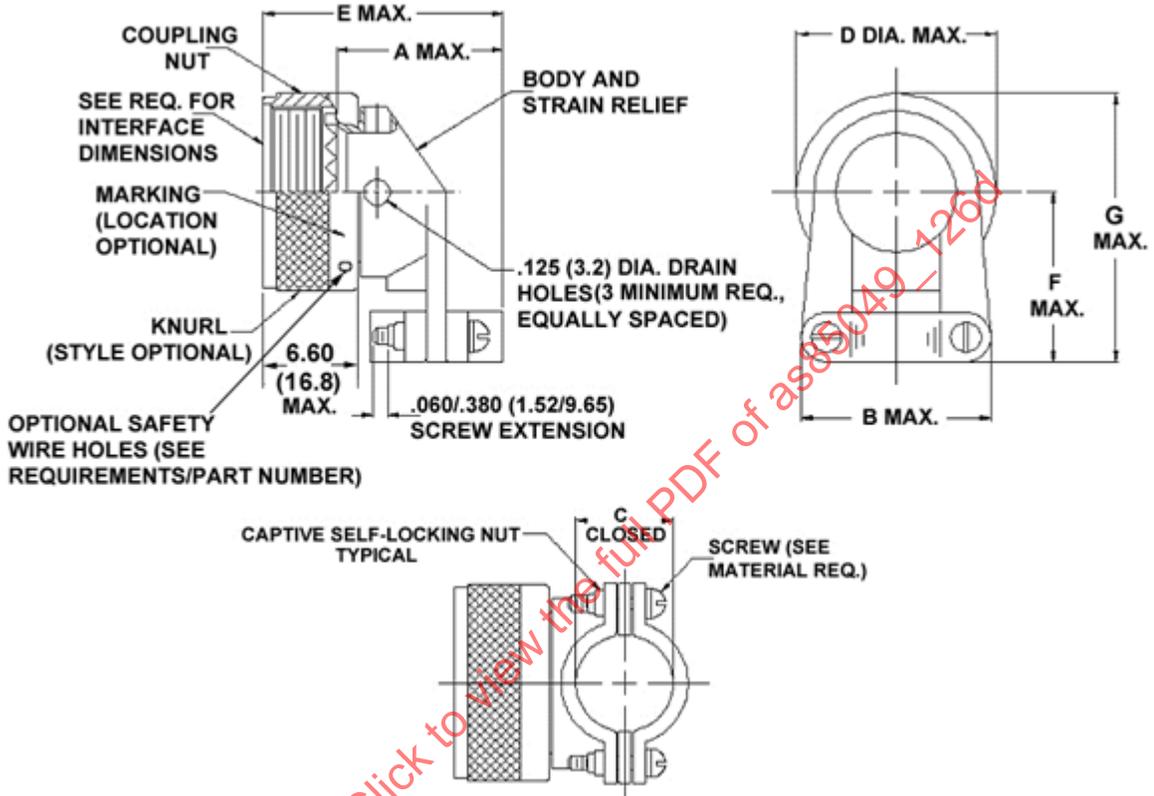
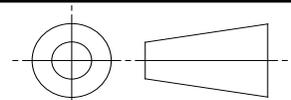


FIGURE 1 – ACCESSORY DIMENSIONS AND CONFIGURATIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/126D>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,
STRAIN RELIEF, 90° SELF-LOCKING, AND
NON-SELF-LOCKING, CATEGORY 4C
(FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049™/126
SHEET 1 OF 3

**REV.
D**

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 SHELL SIZES AND DIMENSIONS

CONNECTOR SHELL SIZE	SHELL SIZE CODE (REF)	A MAX LENGTH 1/	B MAX	C ±.031(0.79) DIM 2/	D MAX DIA	E MAX OVERALL LENGTH	F MAX	G MAX	SCREW SIZE (REF)
09	A	.86 (21.8)	.88 (22.4)	.219 (5.56)	.858 (21.79)	1.14 (29.0)	.81 (20.6)	1.24 (31.5)	4-40
11	B	.94 (23.9)	.94 (23.9)	.264 (6.71)	.984 (24.99)	1.22 (31.0)	.87 (22.1)	1.36 (34.5)	4-40
13	C	1.14 (29.0)	1.12 (28.4)	.344 (8.74)	1.157 (29.39)	1.42 (36.1)	.93 (23.6)	1.51 (38.4)	4-40
15	D	1.20 (30.5)	1.19 (30.2)	.460 (11.68)	1.279 (32.49)	1.48 (37.6)	.99 (25.1)	1.63 (41.4)	4-40
17	E	1.34 (34.0)	1.44 (36.6)	.545 (13.84)	1.406 (35.71)	1.62 (41.1)	1.09 (27.7)	1.76 (44.7)	4-40
19	F	1.46 (37.1)	1.56 (39.6)	.615 (15.62)	1.516 (38.51)	1.74 (44.2)	1.23 (31.2)	1.99 (50.5)	6-32
21	G	1.58 (40.1)	1.69 (42.9)	.698 (17.73)	1.642 (41.70)	1.86 (47.2)	1.30 (33.0)	2.12 (53.8)	6-32
23	H	1.71 (43.4)	1.75 (44.5)	.780 (19.81)	1.768 (44.91)	1.99 (50.5)	1.36 (34.5)	2.24 (56.9)	6-32
25	J	1.83 (46.5)	1.88 (47.8)	.850 (21.59)	1.869 (47.47)	2.11 (53.6)	1.42 (36.1)	2.35 (59.7)	8-32

- 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.

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. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = ±.03 AND .XXX = ±.015 ANGULAR TOLERANCES X = ±2. METRIC EQUIVALENTS ARE IN PARENTHESES, 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, BODY, AND STRAIN RELIEF. THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE BODY.

FOR THE NON-SELF-LOCKING COUPLING NUT CONFIGURATION (DASH "-"), THREE (3) EQUALLY SPACED HOLES SHALL BE PROVIDED WITH OPTION "H" AND SHALL ACCOMMODATE .020 MAXIMUM SAFETY WIRE.

2. STRAIN RELIEF ACCOMMODATES AS85049/127 BUSHING STRIP.
 3. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION "N" IS A FREE SPINNING SELF-LOCKING COUPLING.
 4. CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
 5. MATERIAL AND FINISH: AS SPECIFIED IN TABLE 2 AND AS LISTED BELOW.

LOCKNUTS AND SCREWS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE; SILVER OR CHROMATE PLATE OPTIONAL.

SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.

	AEROSPACE STANDARD CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90° SELF-LOCKING, AND NON-SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)	AS85049™/126 SHEET 2 OF 3	REV. D