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REV.
A

AS85049™/125

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO ADD DIMENSION "F" TO TABLE 1.

NOTICE

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

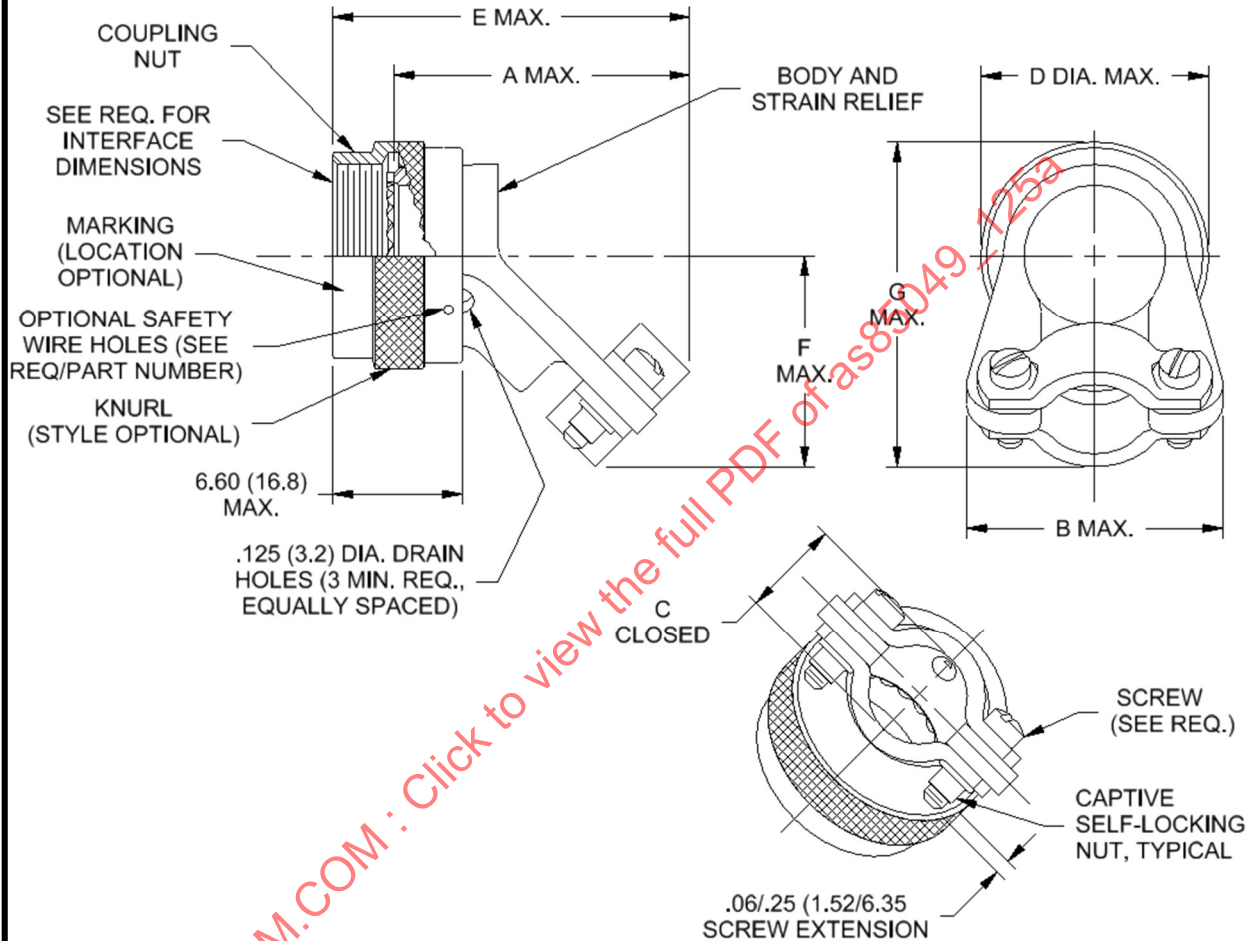
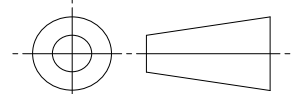


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/125A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,
45° SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4C
(FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049™/125
SHEET 1 OF 3

REV.
A

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ISSUED 2022-10 REVISED 2024-04

TABLE 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	1.388 (35.26)	.88 (22.4)	.219 (5.56)	.858 (21.79)	1.67 (42.42)	.901 (23.6)	1.33 (33.8)	4-40
11	B	1.428 (36.27)	.94 (23.9)	.264 (6.71)	.984 (24.99)	1.71 (43.43)	.964 (24.4)	1.46 (37.1)	4-40
13	C	1.498 (38.05)	1.14 (29.0)	.344 (8.74)	1.157 (29.39)	1.78 (45.21)	1.050 (26.7)	1.63 (41.4)	4-40
15	D	1.548 (39.32)	1.20 (30.5)	.460 (11.68)	1.279 (32.49)	1.83 (46.48)	1.112 (28.2)	1.75 (44.5)	4-40
17	E	1.648 (41.86)	1.44 (36.6)	.545 (13.84)	1.406 (35.71)	1.93 (49.02)	1.175 (29.9)	1.88 (47.8)	4-40
19	F	1.768 (44.91)	1.56 (39.6)	.615 (15.62)	1.516 (38.51)	2.05 (52.07)	1.230 (31.2)	1.99 (50.5)	6-32
21	G	1.808 (45.92)	1.69 (42.9)	.698 (17.73)	1.642 (41.70)	2.09 (53.09)	1.293 (32.8)	2.11 (53.6)	6-32
23	H	1.858 (47.19)	1.75 (44.5)	.780 (19.81)	1.768 (44.91)	2.14 (54.36)	1.365 (34.7)	2.25 (57.2)	6-32
25	J	1.898 (48.21)	1.88 (47.8)	.850 (21.59)	1.869 (47.47)	2.18 (55.37)	1.417 (36.0)	2.36 (59.9)	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.

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

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 IN PARENTHESES ARE FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM.

INTERFACE DIMENSIONS SHALL BE IN ACCORDANCE WITH AS85049, FIGURE 3 OR FIGURE 3A.

ACCESSORIES SHALL CONSIST OF A COUPLING NUT, BODY, AND STRAIN RELIEF. THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE BODY.

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

- THE STRAIN RELIEF SHALL ACCOMMODATE THE AS85049/127 BUSHING STRIP.
- DETENTED SELF-LOCKING SHALL PROVIDE A POSITIVE AUDIBLE DETENTED COUPLING. OPTION "N" SHALL BE A FREE SPINNING SELF-LOCKING COUPLING.
- CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH WIRE OR CABLE.
- MATERIAL AND FINISH FOR FIGURE 1 SHALL BE AS SPECIFIED IN TABLE 2 AND AS LISTED BELOW.

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

SELF-LOCKING DEVICE SHALL BE CORROSION-RESISTANT MATERIAL.

	AEROSPACE STANDARD		AS85049/125™ SHEET 2 OF 3	REV. A
	CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 45° SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)			