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REV.
D

AS85049™/123

FEDERAL SUPPLY CLASS
5935

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.

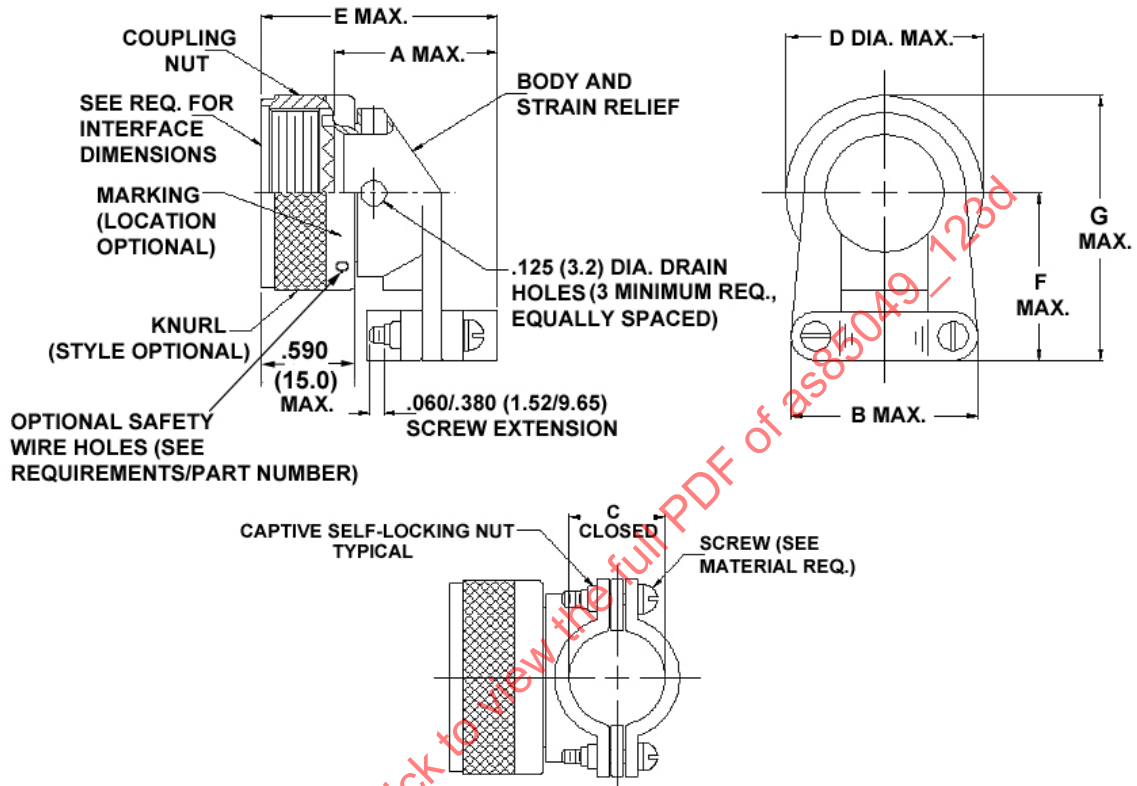
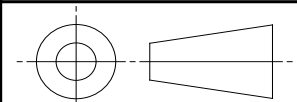


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/123D>

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 I AND II CONNECTORS)

AS85049™/123
SHEET 1 OF 3

REV.
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ISSUED 2003-06 REVISED 2017-04 REAFFIRMED 2021-12

TABLE 1 - FIGURE 1 SHELL SIZES AND DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE		A MAX LENGTH 1/ 1/	B MAX	C ±.031 (0.79) DIM 2/ 2/	D MAX DIA	E MAX OVERALL LENGTH	F MAX	G MAX	SCREW SIZE (REF)
	SERIES II	SERIES I								
08	8	9	.86 (21.8)	.88 (22.4)	.219 (5.56)	.858 (21.79)	1.10 (27.9)	.81 (20.6)	1.24 (31.5)	4-40
10	10	11	.94 (23.9)	.94 (23.9)	.264 (6.71)	.984 (24.99)	1.18 (30.0)	.87 (22.1)	1.36 (34.5)	4/40
12	12	13	1.14 (29.0)	1.12 (28.4)	.344 (8.74)	1.157 (29.39)	1.38 (35.1)	.93 (23.6)	1.51 (38.4)	4-40
14	14	15	1.20 (30.5)	1.19 (30.2)	.460 (11.68)	1.279 (32.49)	1.44 (36.5)	.99 (25.1)	1.63 (41.4)	4-40
16	16	17	1.34 (34.0)	1.44 (36.6)	.545 (13.84)	1.406 (35.71)	1.58 (40.1)	1.06 (26.9)	1.76 (44.7)	4-40
18	18	19	1.46 (37.1)	1.56 (39.6)	.615 (15.62)	1.516 (38.51)	1.70 (43.1)	1.23 (31.2)	1.99 (50.5)	6-32
20	20	21	1.58 (40.1)	1.69 (42.9)	.698 (17.73)	1.642 (41.70)	1.82 (46.2)	1.30 (33.0)	2.12 (53.8)	6-32
22	22	23	1.71 (43.4)	1.75 (44.5)	.780 (19.81)	1.768 (44.91)	1.95 (49.5)	1.36 (34.5)	2.24 (56.9)	6-32
24	24	25	1.83 (46.5)	1.88 (47.8)	.850 (21.59)	1.869 (47.47)	2.07 (52.5)	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.

2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 2.

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

4. 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.

5. STRAIN RELIEF ACCOMMODATES AS85049/127 BUSHING STRIP.

6. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION "N" IS A FREE SPINNING SELF-LOCKING COUPLING.

7. CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.

8. 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	AS85049™/123 SHEET 2 OF 3	REV. D
	CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90° SELF-LOCKING, AND NON-SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)		