

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.

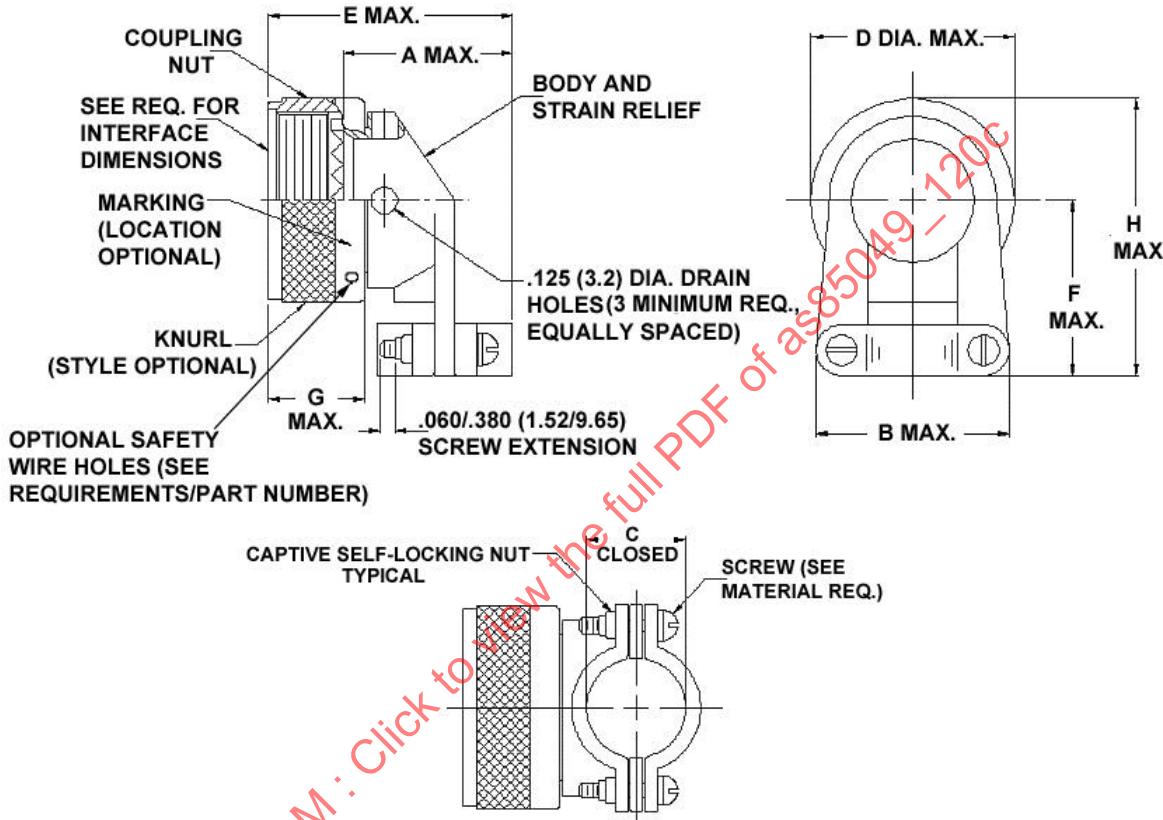
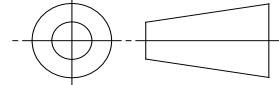


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATION

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS85049/120C>

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 4B  
 (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703  
 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/120  
SHEET 1 OF 3

REV. C

TABLE 1 - DASH NUMBERS AND DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE				A MAX LENGTH 2/	B DIM MAX	C $\pm .031$ DIM 1/	D MAX DIA	E MAX OVERALL LENGTH	F MAX	G MAX	H MAX	SCREW SIZE (REF)
	MIL-DTL-83723 SERIES 3	AS50151 CRIMP, AS95234	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2									
-03	--	--	3	--	.93 (23.6)	.88 (22.4)	.219 (5.6)	.95 (24.1)	1.29 (32.8)	.84 (21.3)	.710 (18.03)	1.32 (33.5)	4-40
-08	8	8S	--	8	.93 (23.6)	.88 (22.4)	.219 (5.6)	.89 (22.6)	1.29 (32.8)	.81 (20.6)	.710 (18.03)	1.26 (32.0)	4-40
-10	10	10S,10SL	--	10	1.02 (25.9)	.94 (23.9)	.264 (6.7)	1.01 (25.7)	1.38 (35.1)	.87 (22.1)	.710 (18.03)	1.38 (35.1)	4-40
-12	12	12,12S	7	12	1.21 (30.7)	1.12 (28.4)	.344 (8.7)	1.14 (29.0)	1.57 (39.9)	.93 (23.6)	.710 (18.03)	1.50 (38.1)	4-40
-14	14	14,14S	12	14	1.27 (32.3)	1.19 (30.2)	.460 (11.7)	1.26 (32.0)	1.63 (41.4)	1.00 (25.4)	.710 (18.03)	1.63 (41.4)	4-40
-16	16	16,16S	19	16	1.42 (36.1)	1.44 (36.6)	.545 (13.8)	1.39 (35.3)	1.78 (45.2)	1.06 (26.9)	.710 (18.03)	1.75 (44.5)	4-40
-18	18	18	27	18	1.53 (38.9)	1.56 (39.6)	.615 (15.7)	1.51 (38.4)	1.89 (48.0)	1.23 (31.2)	.710 (18.03)	1.99 (50.6)	6-32
-20	20	20	37	20	1.65 (41.9)	1.69 (42.9)	.698 (17.7)	1.64 (41.7)	2.01 (51.1)	1.30 (33.0)	.710 (18.03)	2.07 (52.6)	6-32
-22	22	22	--	22	1.78 (45.2)	1.75 (44.5)	.780 (19.8)	1.76 (44.7)	2.14 (54.4)	1.36 (34.5)	.710 (18.03)	2.25 (57.2)	6-32
-24	24	24	--	24	1.90 (48.3)	1.88 (47.8)	.850 (21.6)	1.89 (48.0)	2.26 (57.4)	1.42 (36.1)	.710 (18.03)	2.37 (60.2)	8-32
-28	--	28	--	--	2.20 (55.9)	2.12 (53.8)	.950 (24.1)	2.14 (54.4)	2.72 (69.1)	1.63 (41.4)	.890 (22.6)	2.70 (68.6)	8-32
-32	--	32	--	--	2.27 (57.7)	2.50 (63.5)	1.015 (25.8)	2.40 (61.0)	2.79 (70.9)	1.86 (47.2)	.890 (22.6)	3.05 (77.5)	8-32
-36	--	36	--	--	2.39 (60.7)	2.62 (66.5)	1.187 (30.1)	2.64 (67.1)	2.91 (73.9)	1.98 (50.3)	.890 (22.6)	3.30 (83.8)	8-32
-40	--	40	--	--	2.52 (64.0)	2.68 (68.1)	1.220 (31.0)	2.89 (73.4)	3.04 (77.2)	2.10 (53.3)	.890 (22.6)	3.55 (90.2)	8-32
-44	--	44	--	--	2.77 (70.4)	3.00 (76.2)	1.500 (38.1)	3.14 (79.8)	3.29 (83.6)	2.36 (59.9)	.890 (22.6)	3.93 (99.8)	8-32
-48	--	48	--	--	2.89 (73.4)	3.50 (88.9)	1.625 (41.3)	3.39 (86.1)	3.41 (86.6)	2.48 (63.0)	.890 (22.6)	4.18 (106.2)	8-32
-61	--	--	61	--	1.90 (48.3)	1.88 (47.8)	.850 (21.6)	1.95 (49.5)	2.26 (57.4)	1.45 (36.8)	.710 (18.03)	2.43 (61.7)	8-32

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

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

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 =  $\pm .03$  AND .XXX =  $\pm .015$  ANGULAR TOLERANCES X =  $\pm .2$ . 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 4 OR 4A.

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

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

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