

REV.  
E

AS85049™/41

FEDERAL SUPPLY CLASS  
5935

## RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CORRECT BUSHING PART NUMBERS LISTED IN TABLE 1 AND ALSO CORRECT RELATED INFORMATION IN PARAGRAPH 4 OF THE REQUIREMENTS SECTION.

## NOTICE

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

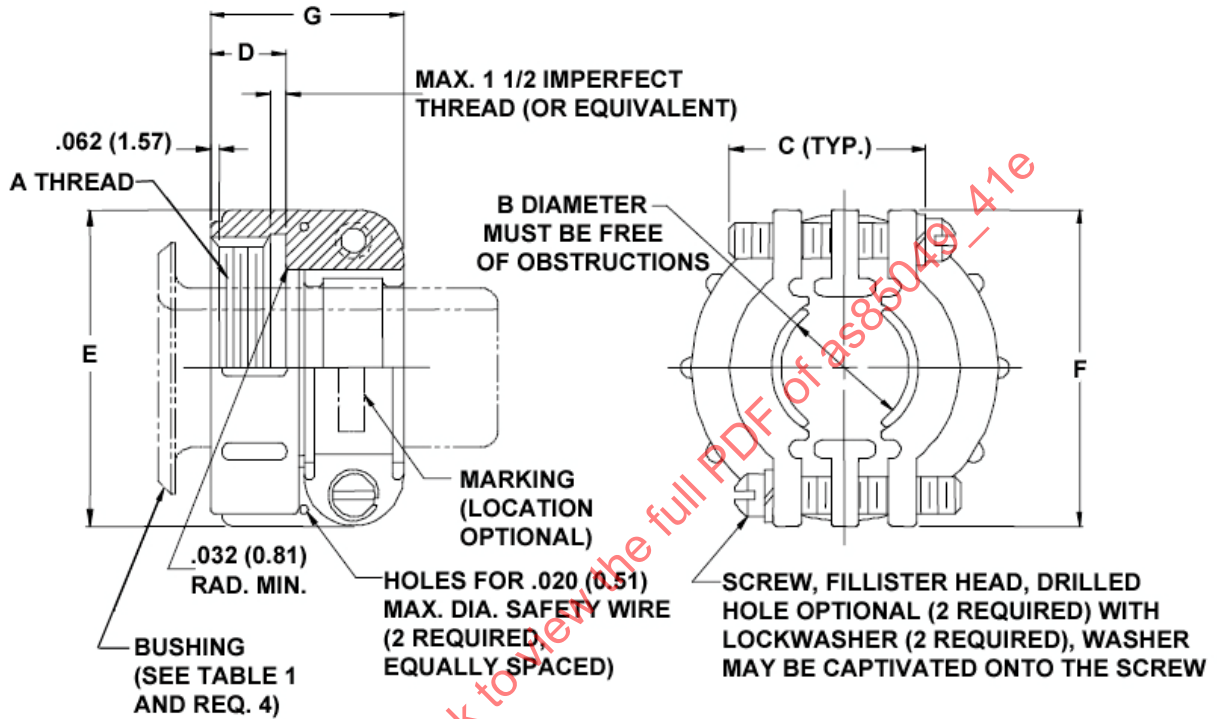
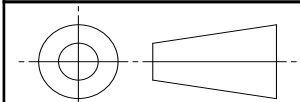


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/41E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



## AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,  
NON-ENVIRONMENTAL, STRAIN RELIEF, STRAIGHT,  
CATEGORY 4C (FOR AS50151 SOLDER TYPE, V THREAD OF MS310X,  
CLASSES A, B, C, OR K CONNECTORS AND AS85049 ACCESSORIES)

AS85049™/41  
SHEET 1 OF 3

REV.  
E

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ISSUED 2001-07 REVISED 2020-09

TABLE 1 - FIGURE 1 DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE (REF.) SEE REQ. 2	A THREAD	B WIRE BUNDLE ACCOMMODATION MAX.	C SCREW LENGTH +.000 -0.062 (1.57)	D ±.016 (0.41)	E ±.031 (0.79) DIA.
-3A	8S & 10S	.500-28 UNEF-2B	.250 (6.4)	.500 (12.7)	.406 (10.3)	.688 (17.5)
-4A	10SL, 12S & 12	.625-24 UNEF-2B	.312 (7.9)	.625 (15.9)	.406 (10.3)	.812 (20.6)
-6A	14S & 14	.750-20 UNEF-2B	.438 (11.1)	.750 (19.1)	.406 (10.3)	.969 (24.6)
-8A	16S & 16	.875-20 UNEF-2B	.562 (14.3)	.750 (19.1)	.406 (10.3)	1.094 (27.8)
-10A	18	1.000-20 UNEF-2B	.625 (15.9)	.875 (22.2)	.406 (10.3)	1.188 (30.2)
-12A	20 & 22	1.188-18 UNEF-2B	.750 (19.1)	1.000 (25.4)	.406 (10.3)	1.375 (34.9)
-16A	24 & 28	1.438-18 UNEF-2B	.938 (23.8)	1.250 (31.8)	.406 (10.3)	1.656 (42.1)
-20A	32	1.750-18 UNS-2B	1.250 (31.8)	1.500 (38.1)	.469 (11.9)	2.031 (51.6)
-24A	36	2.000-18 UNS-2B	1.375 (34.9)	1.500 (38.1)	.531 (13.5)	2.219 (56.4)
-28A	40	2.250-16 UN-2B	1.625 (41.3)	1.750 (44.5)	.531 (13.5)	2.500 (63.5)
-32A	44	2.500-16 UN-2B	1.875 (47.6)	2.000 (50.8)	.594 (15.1)	2.781 (70.6)
-40A	48	3.000-16 UN-2B	2.375 (60.3)	3.000 (76.2)	.656 (16.7)	3.281 (83.3)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	F ±.031 (0.79)	G ±.031 (0.79)	BUSHING (REF) SEE REQ. 4 M85049/139	SCREW SIZE
-3A	.812 (20.6)	.812 (20.6)	-3*	4-40
-4A	.875 (22.2)	.812 (20.6)	-4*	4-40
-6A	1.062 (27.0)	.875 (22.2)	-6*	6-32
-8A	1.156 (29.4)	.938 (23.8)	-8*	6-32
-10A	1.250 (31.8)	.938 (23.8)	-10*	6-32
-12A	1.469 (37.3)	.938 (23.8)	-12*	8-32
-16A	1.688 (42.9)	1.031 (26.2)	-16*	8-32
-20A	2.031 (51.6)	1.094 (27.8)	-20*	8-32
-24A	2.281 (57.9)	1.156 (29.4)	-24*	10-32
-28A	2.688 (68.3)	1.688 (42.9)	-28*	1/4-20
-32A	2.938 (74.6)	1.750 (44.5)	-32*	1/4-20
-40A	3.500 (88.9)	1.750 (44.5)	-40*	1/4-20

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. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM (SEE TABLE 1). UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE AS FOLLOWS: DECIMALS ±.016, ANGLES ±2°.

THE B DIAMETER DIMENSION IS MEANT TO DEFINE THE MAXIMUM WIRE BUNDLE OUTSIDE DIAMETER WHICH CAN BE ACCOMMODATED BY THE CLAMP. THIS DIMENSION IS NOT MEANT TO DEFINE THE CLAMP HARDWARE DIMENSIONS.

2. CLAMP MATES WITH AS50151 SOLDER TYPE, GENERAL DUTY 'A' ENDBELL AND AS85049 ACCESSORIES.

3. REMOVE ALL BURRS AND SHARP EDGES.

4. BUSHINGS FOR REFERENCE ONLY AND NOT SUPPLIED AS PART OF CLAMP. FOR ADDITIONAL CLOSE DOWN OF THE B DIMENSION, BUSHING M85049/139-3\* THROUGH M85049/139-40\* MAY BE USED. ONE BUSHING AS REQUIRED FOR M85049/41-3 THROUGH M85049/41-12, CORRESPONDING TO M85049/139-3\* THROUGH M85049/139-12\*. TWO BUSHINGS AS REQUIRED FOR M85049/41-16 THROUGH M85049/41-24, ONE EACH CORRESPONDING TO M85049/139-16\* THROUGH M85049/139-32\* AND M85049/139-12\* THROUGH M85049/139-20\*. (EXAMPLES: M85049/41-16 REQUIRES ONE M85049/139-16\* AND ONE M85049/139-12\*). THREE BUSHINGS AS REQUIRED FOR M85049/41-28 THROUGH M85049/41-40, ONE EACH CORRESPONDING TO M85049/139-28\* THROUGH M85049/139-40\*, M85049/139-24\* THROUGH M85049/139-32\* AND M85049/139-20\* THROUGH M85049/139-28\* (EXAMPLES: M85049/41-40 REQUIRES ONE M85049/139-40\*, ONE M85049/139-32\*, AND ONE M85049/139-28\*).

	<b>AEROSPACE STANDARD</b>	<b>AS85049™/41</b> SHEET 2 OF 3	<b>REV.</b> <b>E</b>
	CONNECTOR ACCESSORIES, ELECTRICAL, NON-ENVIRONMENTAL, STRAIN RELIEF, STRAIGHT, CATEGORY 4C (FOR AS50151 SOLDER TYPE, V THREAD OF MS310X, CLASSES A, B, C, OR K CONNECTORS AND AS85049 ACCESSORIES)		