

REV.
C

AS85049™/94

FEDERAL SUPPLY CLASS
5935

RATIONALE

AS85049/94C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.

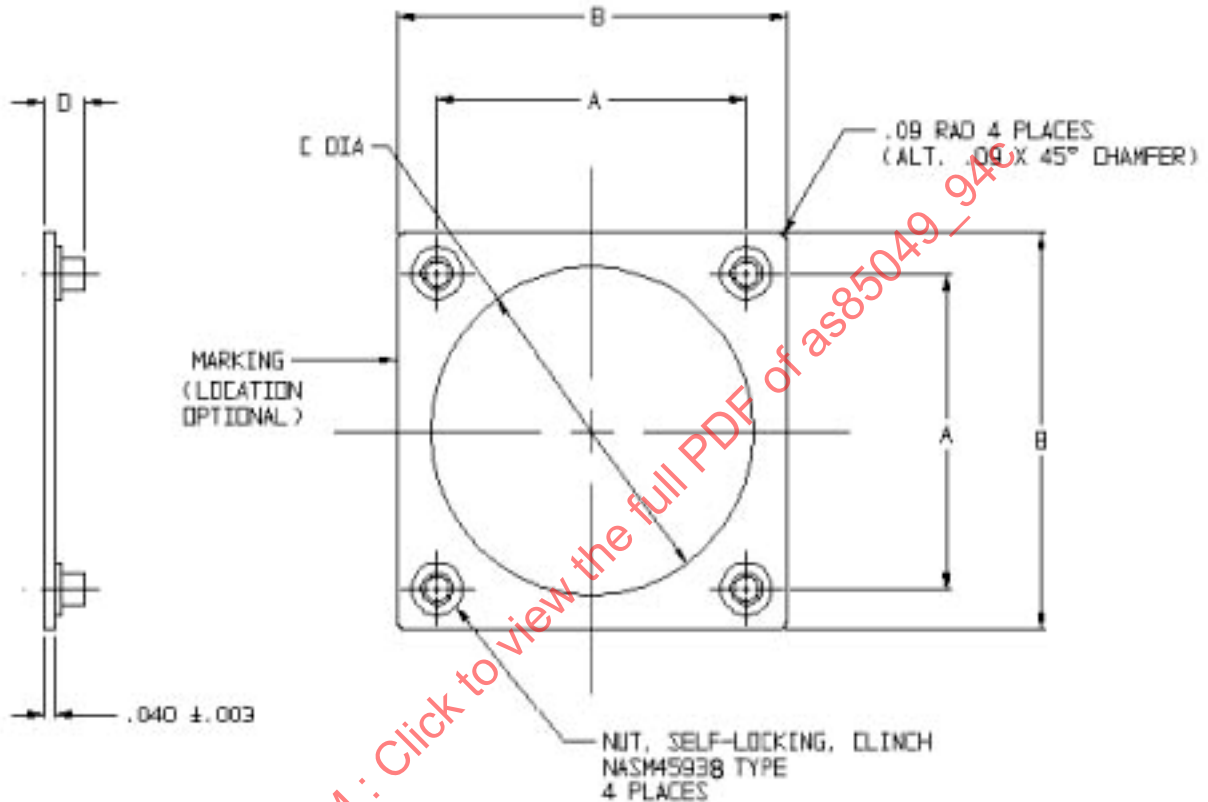
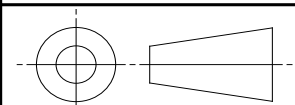


FIGURE 1 – MOUNTING DEVICE CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/94C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,
MOUNTING DEVICE, FLANGE TYPE,
CATEGORY 7, FULL PERIMETER

AS85049™/94
SHEET 1 OF 4

REV.
C

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ISSUED 2001-07 REVISED 2011-05 REAFFIRMED 2021-04

TABLE 1 - DIMENSIONS

DASH NUMBER	THRD UNJC-3B	A ± .015	B MAX	C	D
8	4-40	.594 (15.09)	.900 (22.86)	.555 (14.10) .585 (14.86)	.106 (2.69) .166 (4.22)
10	4-40	.719 (18.26)	1.034 (26.26)	.685 (17.40) .735 (18.67)	.106 (2.69) .166 (4.22)
12	4-40	.812 (20.62)	1.119 (28.42)	.820 (20.83) .860 (21.84)	.106 (2.69) .166 (4.22)
14	4-40	.906 (23.01)	1.213 (30.81)	.945 (24.00) .990 (25.15)	.106 (2.69) .166 (4.22)
16	4-40	.969 (24.61)	1.295 (32.89)	1.070 (27.18) 1.100 (27.94)	.106 (2.69) .166 (4.22)
18	4-40	1.062 (26.97)	1.421 (36.09)	1.195 (30.35) 1.225 (30.99)	.106 (2.69) .166 (4.22)
20	4-40	1.156 (29.36)	1.550 (39.37)	1.320 (33.53) 1.350 (34.29)	.106 (2.69) .166 (4.22)
22	4-40	1.250 (31.75)	1.680 (42.67)	1.440 (36.58) 1.485 (37.72)	.106 (2.69) .166 (4.22)
24	6-32	1.375 (34.93)	1.800 (45.72)	1.570 (39.88) 1.600 (40.64)	.123 (3.12) .183 (4.65)
25	6-32	1.500 (38.10)	1.910 (48.51)	1.643 (41.73) 1.673 (42.49)	.123 (3.12) .183 (4.65)

NOTES:

1. DIMENSIONS ARE INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± .010.
3. FOR MOUNTING FLANGE APPLICATION INFORMATION, SEE TABLE 2.

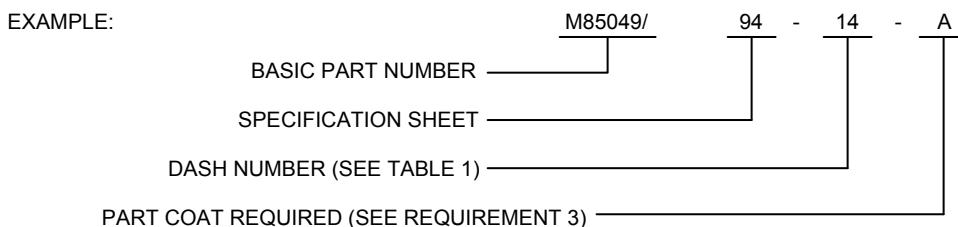
REQUIREMENTS:

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION SHALL BE IN ACCORDANCE WITH FIGURE 1, TABLE 1.
2. FIGURE 1, MOUNTING FLANGES SHALL BE OF A CONSTRUCTION WITH PREDRILLED OR PUNCHED HOLES IN ALUMINUM ALLOY INCORPORATING SELF LOCKING NUTS, CLINCH TYPE.
3. MATERIAL AND FINISH: FLANGES, ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049, CHEMICAL CONVERSION COATING PER MIL-DTL-5541, CLASS 1A. WHEN SPECIFIED IN THE PART NUMBER, BY LETTER 'A' DESIGNATOR, 2 COATS OF EPOXY POLYAMIDE PRIMER PER MIL-PRF-23377, TYPE I, SHALL BE APPLIED EITHER BEFORE OR AFTER NUT INSTALLATION AND OVERSPRAY IS ALLOWED PROVIDED THE PERFORMANCE CHARACTERISTICS OF THE NUT ARE NOT DEGRADED AND ALL OTHER REQUIREMENTS ARE MET.
4. CLINCH NUTS: IN ACCORDANCE WITH NASM45938, CLEAN AND DE-SCALE IN ACCORDANCE WITH ASTM A 380 AND/OR PASSIVATE IN ACCORDANCE WITH AMS-QQ-P-35, FOLLOWED BY A SOLID FILM LUBRICANT COATING PER MIL-PRF-46010.

	AEROSPACE STANDARD	AS85049™/94 SHEET 2 OF 4	REV. C
	CONNECTOR ACCESSORIES, ELECTRICAL, MOUNTING DEVICE, FLANGE TYPE, CATEGORY 7, FULL PERIMETER		

5. PART NUMBER: SEE EXAMPLE BELOW:



6. QUALIFICATION: SEE SAE AS85049, CATEGORY 7, WITH THE FOLLOWING ADDITIONS:

- A. INSTALLATION: WHEN TESTED AS SPECIFIED HEREIN EVIDENCE OF COCKING, LOOSENESS, SPLITS OR CRACKS SHALL BE CAUSE FOR REJECTION.
- B. SALT SPRAY: IN ACCORDANCE WITH SAE AS85049, STANDARD TEST, 96 HOUR DURATION FOR CHEMICAL CONVERSION COATED PARTS AND EXTENDED TEST, 500 HOUR DURATION FOR POLYAMIDE PRIMER COATED PARTS.
- C. VIBRATION: IN ACCORDANCE WITH SAE AS85049, RANDOM VIBRATION-MEDIUM DUTY, UNWIRED MOUNTED WITH FLANGE RECEPTACLE CONNECTOR ONLY.
- D. SHOCK: IN ACCORDANCE WITH SAE AS85049, SHOCK-MEDIUM AND LIGHT DUTY, UNWIRED MOUNTED WITH FLANGE RECEPTACLE CONNECTOR ONLY.

7. PERIODIC QUALIFICATION: SEE AS85049, CATEGORY 7, WITH THE FOLLOWING ADDITIONS:

- A. LOCKING TORQUE: IN ACCORDANCE WITH NASM25027.
- B. TORQUE OUT: IN ACCORDANCE WITH NASM45938, EXCEPT THE REQUIREMENT SHALL BE 15 IN LB MINIMUM FOR 4-40 THREADED NUTS AND 20 IN LB MINIMUM FOR 6-32 THREADED NUTS.
- C. PUSH OUT: IN ACCORDANCE WITH NASM45938, EXCEPT THE REQUIREMENT SHALL BE 88 LB MINIMUM FOR 4-40 THREADED NUTS AND 105 LB MINIMUM FOR 6-32 THREADED NUTS.
- D. POST EXAMINATION.

TABLE 2 - MOUNTING FLANGE CONNECTOR APPLICATION DATA 1/

AS85049/94 DASH NO	MIL-DTL-38999				AS50151	AS81703 SERIES 3
	SERIES I	SERIES II	SERIES III	SERIES IV		
CONNECTOR SHELL SIZE						
8		8			8S	
10	9	10	9 (A)		10SL	7
12	11	12	11 (B)	11 (B)	12, 12S	12
14	13	14	13 (C)	13 (C)	14, 14S	19
16	15	16	15 (D)	15 (D)	16, 16S	27
18	17	18	17 (E)	17 (E)	18	
20	19	20	19 (F)	19 (F)	20	
22	21	22	21 (G)	21 (G)	22	
24	23	24	23 (H)	23 (H)	24	
25	25		25 (J)	25 (J)		