

REV.
A

AS85049/41

FEDERAL SUPPLY CLASS
5935

RATIONALE

RE-ACTIVATE DUE TO EXTENSIVE USAGE. INCORPORATE OUTSTANDING COMMENTS, REMOVE GOVERNMENT JARGON AS A RESULT OF THE WORD-FOR-WORD CONVERSION. UPDATE REFERENCES.

NOTICE

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

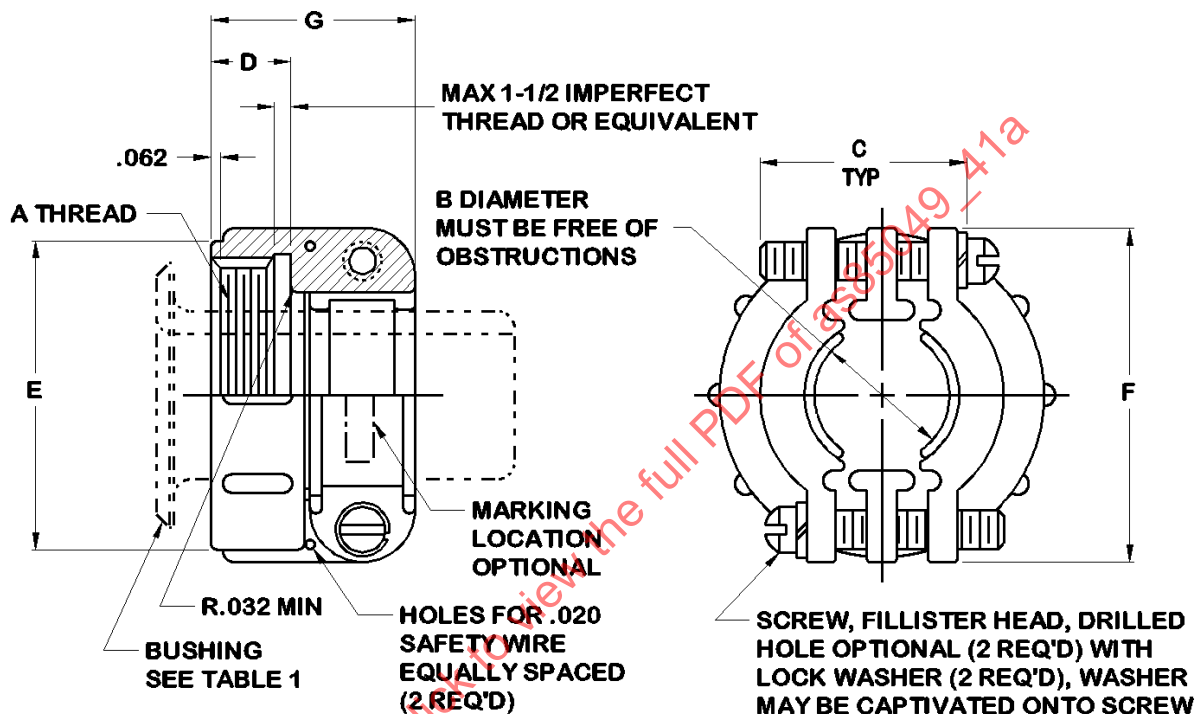
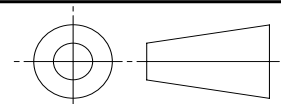


FIGURE 1 - CONFIGURATION AND DIMENSIONS

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
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AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL,
NON-ENVIRONMENTAL, STRAIN RELIEF, STRAIGHT,
CATEGORY 4C (FOR MIL-DTL-5015 GENERAL DUTY 'A'
ENDBELL AND AS85049 ACCESSORIES)

AS85049/41
SHEET 1 OF 4

REV.
A

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ISSUED 2001-07 REVISED 2007-10

TABLE 1 - FIGURE 1 DASH NUMBER & DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE (REF) SEE APPLICATIONS NOTE 2	A THREAD	B WIRE BUNDLE ACCOMMODATION MAX	C SCREW LENGTH +.000 -.062	D ±.016	E ±.031 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	.750-24 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 - FIGURE 1 DASH NUMBER & DIMENSIONS (CONTINUED)

DASH NO.	F ±.031	G ±.031	BUSHING (REF) SEE NOTE 7 M85049/139	SCREW SIZE
-3A	.812 (20.6)	.812 (20.6)	-031*	4-40
-4A	.875 (22.2)	.812 (20.6)	-041*	4-40
-6A	1.062 (27.0)	.875 (22.2)	-061*	6-32
-8A	1.156 (29.4)	.938 (23.8)	-081*	6-32
-10A	1.250 (31.8)	.938 (23.8)	-101*	6-32
-12A	1.469 (37.3)	.938 (23.8)	-121*	8-32
-16A	1.688 (42.9)	1.031 (26.2)	-161*	8-32
-20A	2.031 (51.6)	1.094 (27.8)	-201*	8-32
-24A	2.281 (57.9)	1.156 (29.4)	-241*	10-32
-28A	2.688 (68.3)	1.688 (42.9)	-281*	1/4-20
-32A	2.938 (74.6)	1.750 (44.5)	-321*	1/4-20
-40A	3.500 (88.9)	1.750 (44.5)	-401*	1/4-20

NOTES:

NOTICE

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

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS IN PARENTHESIS () ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 in = 25.4 mm.
3. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE AS FOLLOWS: DECIMALS ±.016, ANGLES ±2°.

4. DIMENSIONS APPLY AFTER PLATING.
5. DIMENSIONS AND TOLERANCING IN ACCORDANCE WITH ANSI Y14.5.
6. REMOVE ALL BURRS AND SHARP EDGES.
7. BUSHINGS FOR REFERENCE ONLY AND NOT SUPPLIED AS PART OF CLAMP. FOR ADDITIONAL CLOSEDOWN OF THE B DIMENSION, BUSHING M85049/139-031* THROUGH M85049/139-401* MAY BE USED. ONE BUSHING AS REQUIRED FOR M85049/41-3 THROUGH M85049/41-12, CORROSPONDING TO M85049/139-031* THROUGH M85049/139-121*. TWO BUSHINGS AS REQUIRED FOR M85049/41-16 THROUGH M85049/41-24, ONE EACH CORROSPONDING TO M85049/139-161* THROUGH M85049/139-321* AND M85049/139-121* THROUGH M85049/139-201*. (EXAMPLES: M85049/41-16 REQUIRES ONE M85049/139-161* AND ONE M85049/139-121*). THREE BUSHINGS AS REQUIRED FOR M85049/41-28 THROUGH M85049/41-40, ONE EACH CORROSPONDING TO M85049/139-281* THROUGH M85049/139-401*, M85049/139-241* THROUGH M85049/139-321* AND M85049/139-201* THROUGH M85049/139-281*. (EXAMPLES: M85049/41-40 REQUIRES ONE M85049/139-401*, ONE M85049/139-321* AND ONE M85049/139-281*)
8. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.
2. MATERIAL AND FINISH: SEE TABLE 2
3. CLAMP SCREWS AND LOCKWASHERS: 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED

TABLE 2 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	1/ W

1/ W FINISH IS NOT FOR USE IN SPACE APPLICATION

PART OR IDENTIFYING NUMBER (PIN):

M85049/ 41 - 3A

BASIC PART NUMBER ———

SPECIFICATION SHEET ———

DASH NO. (TABLE 1) ———

QUALIFICATION: SEE AS85049, CATEGORY 4C, EXAMINATION OF PRODUCT, SALT SPRAY AND POST EXAMINATION ONLY TESTS REQUIRED.

SAE Aerospace An SAE International Group	AEROSPACE STANDARD	AS85049/41 SHEET 3 OF 4	REV. A
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, NON-ENVIRONMENTAL, STRAIN RELIEF, STRAIGHT, CATEGORY 4C (FOR MIL-DTL-5015 GENERAL DUTY 'A' ENDBELL AND AS85049 ACCESSORIES)		