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REV.
C

AS85049™/32

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, REPLACE PART NUMBER/SUPERSESSION IMAGES WITH WORD TEXT, UPDATE APPLICATION RESTRICTION TO LATEST AEROSPACE COUNCIL APPROVED WORDING, AND TO ADD METRIC EQUIVALENTS TO TOLERANCES IN TABLE 2 AND DIMENSIONS IN FIGURE 2.

NOTICE

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

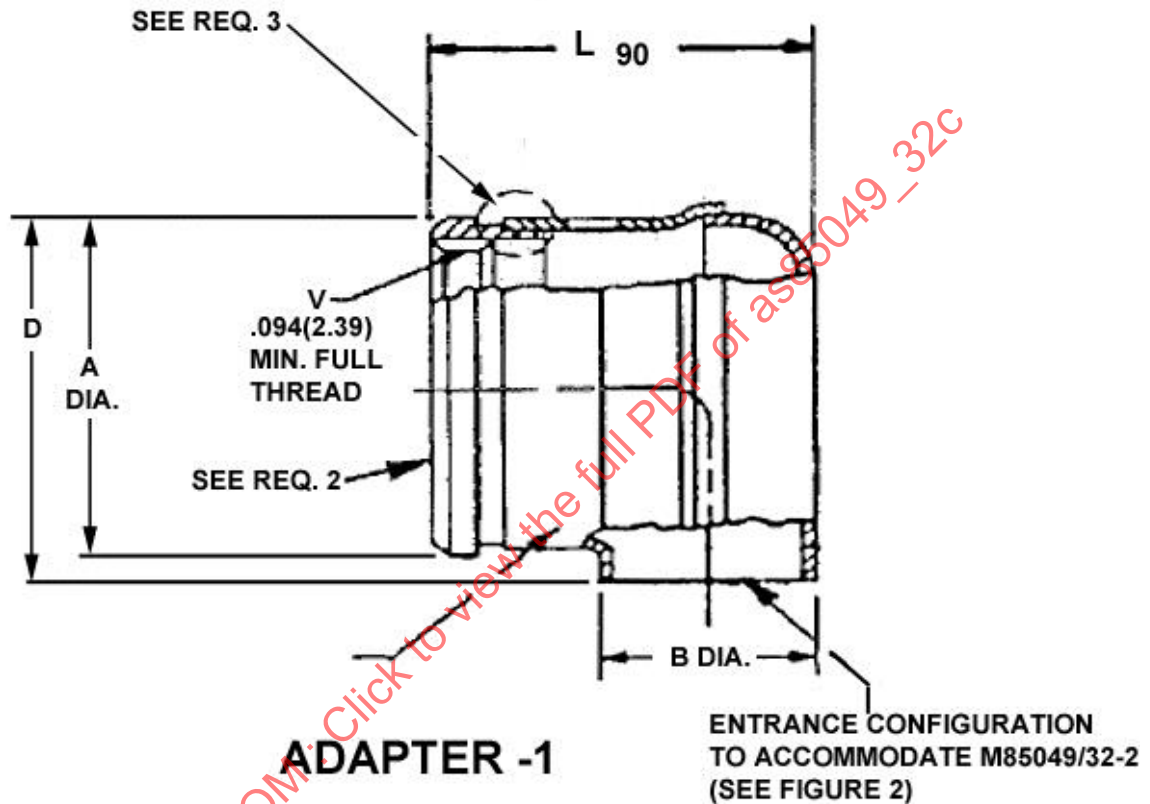
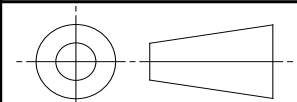


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATION – 90 DEGREE ADAPTER

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/32C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL
BACKSHELL, NONENVIRONMENTAL, 90°, SHIELDED
TERMINATION, CATEGORY 3C
(FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/32
SHEET 1 OF 5

REV.
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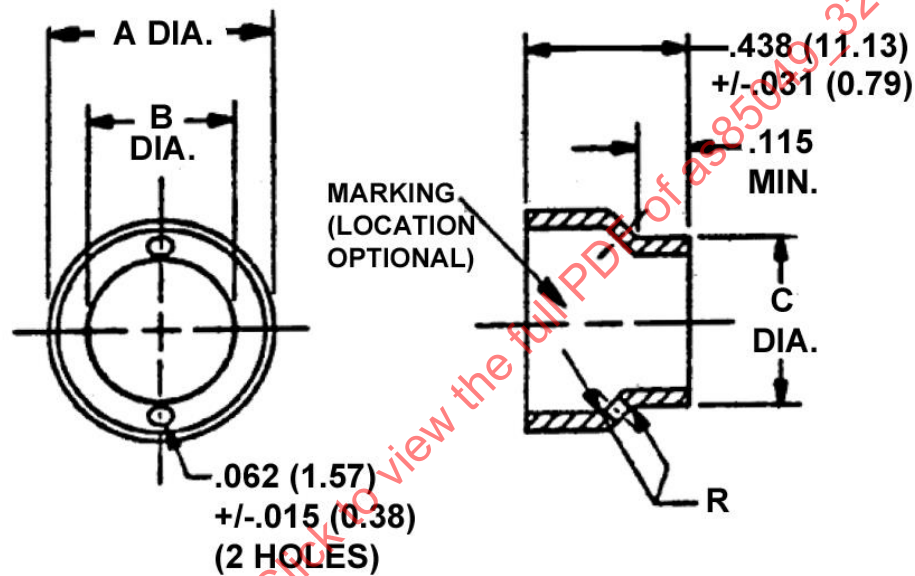
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ISSUED 2000-05 REVISED 2016-12 REAFFIRMED 2021-08

TABLE 1 – FIGURE 1 DIMENSIONS

ADAPTER SHELL SIZE	FITS CONNECTOR SHELL SIZE		A MAXIMUM DIAMETER	B MAXIMUM DIAMETER	D MAXIMUM DIAMETER	L 90 MAXIMUM	V THREAD UNEF CLASS 2B
	SERIES II	SERIES I					
8	8	9	.594 (15.09)	.359 (9.12)	.656 (16.66)	.719 (18.26)	.4375-28
10	10	11	.719 (18.26)	.406 (10.31)	.781 (19.84)	.766 (19.46)	.5624-24
12	12	13	.844 (21.44)	.500 (12.70)	.938 (23.83)	.859 (21.82)	.6875-24
14	14	15	.969 (24.61)	.578 (14.68)	1.062 (26.97)	.938 (23.83)	.8125-20
16	16	17	1.094 (27.79)	.641 (16.28)	1.219 (30.96)	1.000 (25.40)	.9375-20
18	18	19	1.219 (30.96)	.688 (17.48)	1.344 (34.14)	1.047 (26.59)	1.0625-18
20	20	21	1.344 (34.14)	.734 (18.64)	1.469 (37.31)	1.094 (27.79)	1.1875-18
22	22	23	1.469 (37.31)	.796 (20.22)	1.594 (40.49)	1.156 (29.36)	1.3125-18
24	24	25	1.594 (40.49)	.859 (21.82)	1.719 (43.66)	1.219 (30.96)	1.4375-18



ADAPTER -2

FIGURE 2 - DIMENSIONS AND CONFIGURATION - ADAPTER REDUCER

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	(R) CONNECTOR ACCESSORIES, ELECTRICAL BACKSHELL, NONENVIRONMENTAL, 90°, SHIELDED TERMINATION, CATEGORY 3C (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)		

TABLE 2 – FIGURE 2 DIMENSIONS

FITS ADAPTER SHELL SIZE	DASH NUMBER	A +.001 (0.03) -.005 (0.13)	B +.010 (0.25) -.001 (0.03)	C MAX. DIA.	FITS ADAPTER SHELL SIZE	DASH NUMBER	A +.001 (0.03) -.005 (0.13)	B +.010 (0.25) -.001 (0.03)	C MAX. DIA.
8	-81	.291 (7.39)	.164 (4.17)	.219 (5.56)	18	-181	.616 (15.65)	.217 (5.51)	.266 (6.76)
	-82		.172 (4.37)	.234 (5.94)		-182		.290 (7.37)	.344 (8.74)
	-83		.188 (4.78)	.250 (6.35)		-183		.343 (8.71)	.391 (9.93)
						-184		.381 (9.68)	.430 (10.92)
						-185		.451 (11.46)	.500 (12.70)
10	-101	.346 (8.79)	.217 (5.51)	.266 (6.76)	20	-201	.664 (16.87)	.328 (8.33)	.375 (9.53)
						-202		.391 (9.93)	.453 (11.51)
						-203		.445 (11.30)	.500 (12.70)
						-204		.406 (10.31)	.469 (11.91)
						-205		.484 (12.29)	.531 (13.49)
12	-121	.441 (11.20)	.198 (5.03)	.250 (6.35)	22	-221	.738 (18.75)	.359 (9.12)	.406 (10.31)
	-122		.217 (5.51)	.266 (6.76)		-222		.438 (11.13)	.484 (12.29)
	-123		.280 (7.11)	.328 (8.33)		-223		.453 (11.51)	.500 (12.70)
	-124					-224		.469 (11.91)	.516 (13.11)
						-225		.562 (14.27)	.609 (15.47)
14	-141	.506 (12.85)	.217 (5.51)	.266 (6.76)	24	-241	.796 (20.22)	.594 (15.09)	.641 (16.28)
	-142		.290 (7.37)	.344 (8.74)					
	-143		.312 (7.92)	.359 (9.12)					
	-144		.343 (8.71)	.391 (9.93)					
	-145		.360 (9.14)	.406 (10.31)					
16	-161	.571 (14.50)	.217 (5.51)	.266 (6.76)					
	-162		.290 (7.37)	.344 (8.74)					
	-163		.343 (8.71)	.391 (9.93)					
	-164		.406 (10.31)	.453 (11.51)					
	-165		.328 (8.33)	.375 (9.53)					

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 AND 2 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM (SEE TABLE 1).

ADAPTER REDUCER (FIGURE 2) IS USED WITH ADAPTER (FIGURE 1) OF AS85049/32 AND FIGURE 1 OF AS85049/33.

ADAPTER (FIGURE 1) MAY BE OF A THREE-PIECE CONSTRUCTION. METHOD OF JOINING IS OPTIONAL. INDIVIDUAL PIECES SHALL BE SHIPPED UNASSEMBLED.

2. MATERIAL AND FINISH: SEE TABLE 3.

TABLE 3 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1 AND 2	COPPER ALLOY	<u>1</u> / TIN LEAD SOLDER PLATED

1/ TIN PLATING IS NOT RECOMMENDED FOR USE IN APPLICATIONS WHERE TIN WHISKERS ARE A CONCERN (ALSO SEE APPLICATION NOTE 1).



AEROSPACE STANDARD

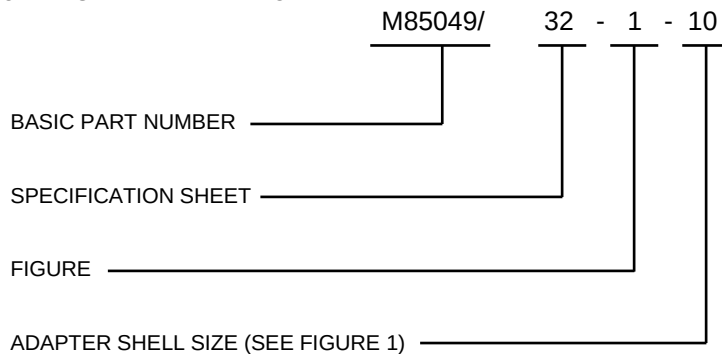
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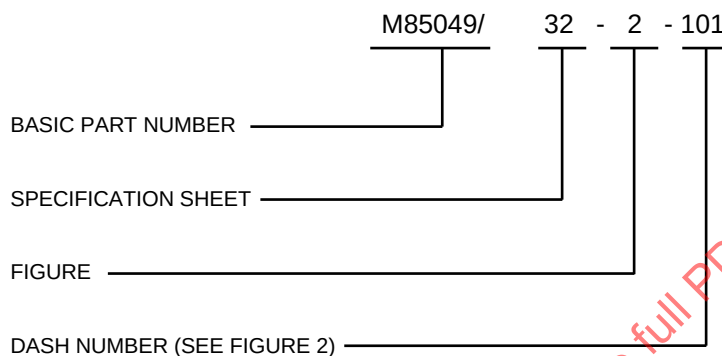
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3. PART NUMBER: SEE EXAMPLES BELOW:

FOR FIGURE 1: SEE EXAMPLE BELOW:



FOR FIGURE 2: SEE EXAMPLE BELOW:

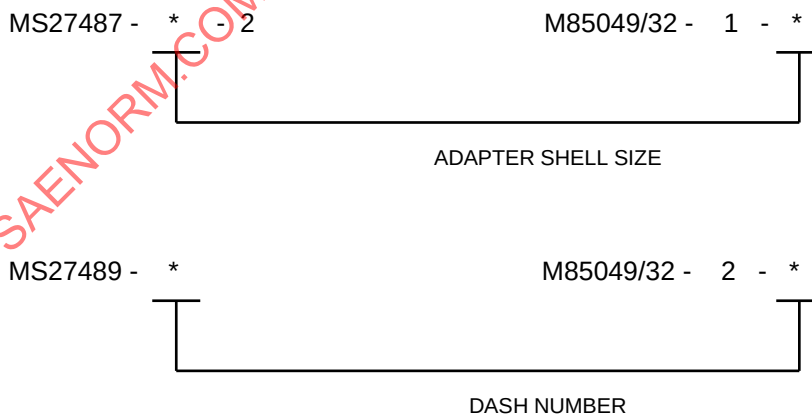


4. ASSEMBLY INSTRUCTIONS: ASSEMBLY INSTRUCTIONS SHALL BE PACKAGED WITH EACH ACCESSORY.

5. QUALIFICATION:

SEE AS85049, CATEGORY 3C, EXCLUDING LIFE CYCLING, COUPLING THREAD STRENGTH, CABLE PULLOUT, EXTERNAL BENDING MOMENT, SAFETY WIRE HOLES, AND FLUID IMMERSION. ACCESSORIES TO BE SUBMITTED FOR QUALIFICATION IN ASSEMBLED CONDITION.

6. SUPERSESSION DATA:



	AEROSPACE STANDARD		AS85049™/32 SHEET 4 OF 5	REV. C
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