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THIRD ANGLE PROJECTION



ISSUED 2000-05

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

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

AS85049/32
SHEET 1 OF 5

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THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-85049.

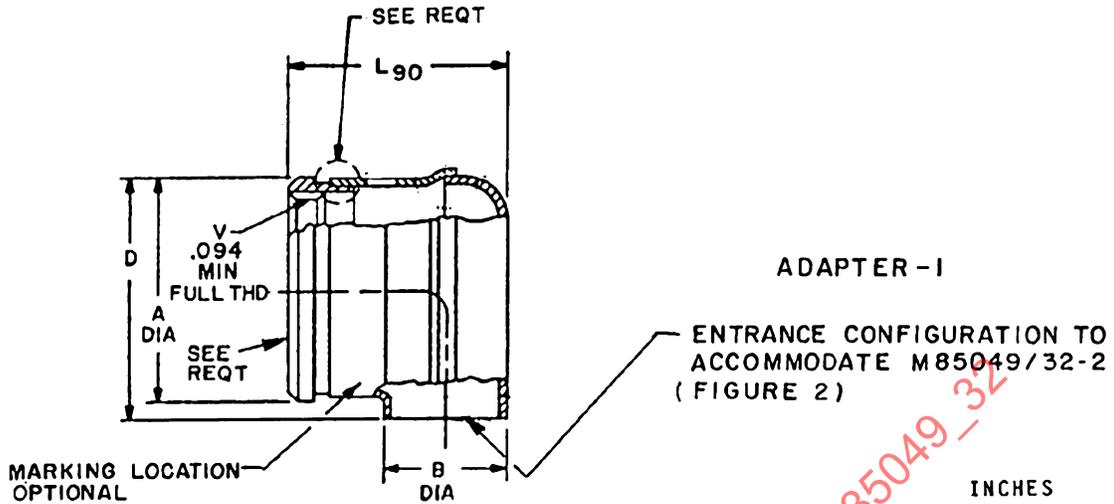


TABLE I. Shell sizes and dimensions

Adapter shell size	Fits connector shell size		A Dia. Max	B Dia. Max	D Dia. Max	L90 Max
	Series II	Series I				
8	8	9	.594	.359	.656	.719
10	10	11	.719	.406	.781	.766
12	12	13	.844	.500	.938	.859
14	14	15	.969	.578	1.062	.938
16	16	17	1.094	.641	1.219	1.000
18	18	19	1.219	.688	1.344	1.047
20	20	21	1.344	.734	1.469	1.094
22	22	23	1.469	.796	1.594	1.156
24	24	25	1.594	.859	1.719	1.219

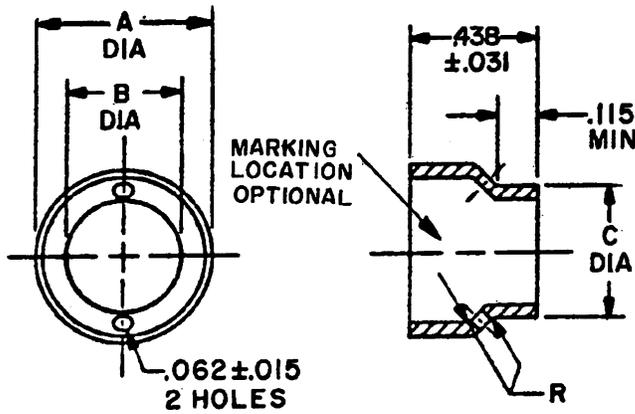
INCHES	mm
.094	.239
.359	9.12
.406	10.31
.500	12.7
.578	14.68
.594	15.09
.641	16.28
.656	16.66
.688	17.48
.719	18.26
.734	18.64
.766	19.46
.781	19.84
.796	20.22
.844	21.44
.859	21.82
.938	23.83
1.000	25.40
1.047	26.59
1.062	26.97
1.094	27.79
1.156	29.36
1.219	30.96
1.344	34.14
1.469	37.31
1.594	40.49
1.719	43.66

NOTES:

1. Dimensions are in inches.
2. Dimensions apply after plating.
3. Metric equivalents are given for general information only.

FIGURE 1. DIMENSIONS AND CONFIGURATION - 90° ADAPTER.

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INCHES	mm	INCHES	mm
.001	.03	.506	12.80
.005	.13	.571	14.50
.031	.79	.616	15.65
.291	7.39	.664	16.87
.346	8.79	.738	18.75
.438	11.13	.796	20.22
.441	11.20		

ADAPTER - 2

Fits adapter shell size	Dash No	A +.001 -.005	B +.010 -.001	C Max Dia	Fits adapter shell size	Dash No	A +.001 -.005	B +.010 -.001	C Max Dia
8	-81	.291	.164	.219	18	-181	.616	.217	.266
	-82		.172	.234		-182		.290	.344
	-83		.188	.250		-183		.343	.391
						-184		.381	.430
					-185		.451	.500	
					-186				
10	-101	.346	.217	.266	20	-201	.664	.328	.375
						-202		.391	.453
						-203		.445	.500
						-204		.406	.469
						-205		.484	.531
						-206		.500	.547
12	-121	.441	.198	.250	22	-221	.738	.359	.406
	-122		.217	.266		-222		.438	.484
	-123		.280	.328		-223		.453	.500
	-124					-224		.469	.516
						-225		.562	.609
14	-141	.506	.217	.266	24	-241	.796	.594	.641
	-142		.290	.344					
	-143		.312	.359					
	-144		.343	.391					
	-145		.360	.406					
	-146		.387	.438					
16	-161	.571	.217	.266					
	-162		.290	.344					
	-163		.343	.391					
	-164		.406	.453					
	-165		.328	.375					

NOTES:

1. Dimensions are in inches.
2. Dimensions apply after plating.
3. Metric equivalents are given for general information only.

FIGURE 2. DIMENSIONS AND CONFIGURATION - ADAPTER REDUCER.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figures 1 and 2. Interface dimensions shall conform to MIL-C-38999, series I and II.

Adapter reducer (figure 2) is used with adapter (figure 1) of MIL-C-85049/32 and figure 1 of MIL-C-85049/33.

Adapter (figure 1) may be of a three-piece construction. Method of joining is optional. Individual pieces shall be shipped unassembled.

Material and finish: See table I.

TABLE I. MATERIAL AND FINISH.

Figure	Material	Finish
1 and 2	Copper alloy	Tin-lead solder plated per QQ-S-571

Part number: See example below:

For figure 1: See example:

M85049/
32
-
1
-
10

Military designator _____

Specification sheet _____

Figure _____

Adapter shell size (see figure 1) _____

For figure 2: See example:

M85049/
32
-
2
-
101

Military designator _____

Specification sheet _____

Figure _____

Dash number (see figure 2) _____

Assembly instructions: Simplified assembly instructions shall be packaged with each accessory.

Qualification:

See MIL-C-85049, category 3C, backshell shall be tested with MIL-C-38999 series I connector.

QPL evaluating activity: Defense Supply Center Columbus, DSCC-V, 3990 East Broad Street, Columbus, Ohio 43216-5000.