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THIRD ANGLE PROJECTION



ISSUED 2000-05

PREPARED BY SAE SUBCOMMITTEE AE-8C1



**AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF,  
90°, NONMETALLIC, CATEGORY 4C  
(FOR MIL-C-27599 SERIES I AND MIL-C-38999  
SERIES I AND II CONNECTORS)

**AS85049/46**  
SHEET 1 OF 5

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INACTIVE FOR AIR FORCE AND NAVY NEW DESIGN EQUIPMENT OR MODIFICATION OF EXISTING EQUIPMENT.

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

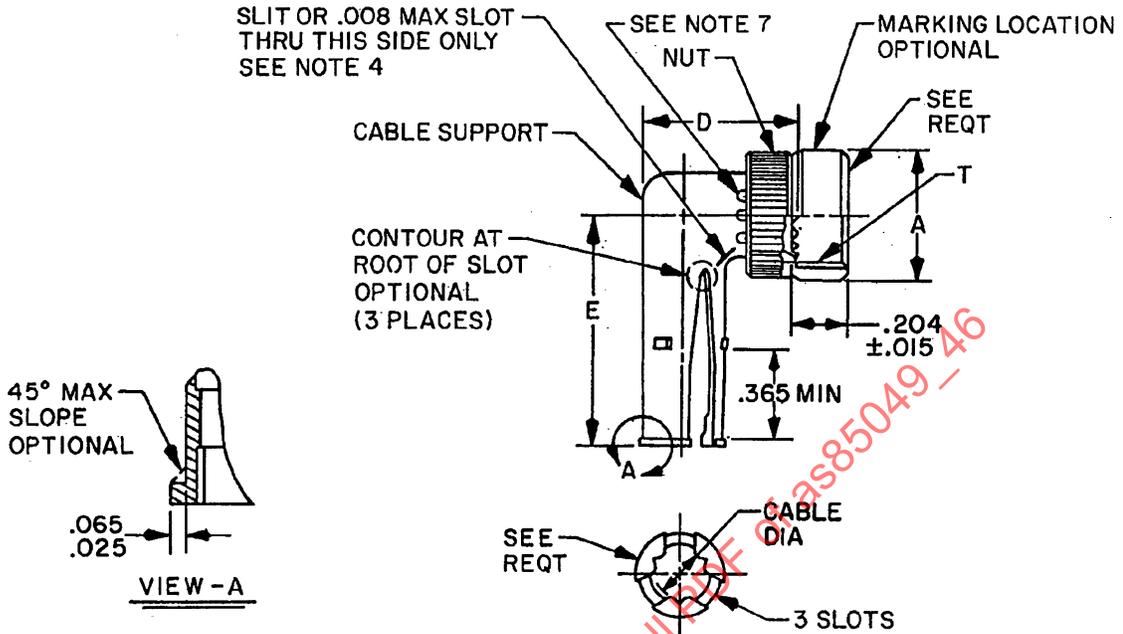


FIGURE 1. CONFIGURATIONS AND DIMENSIONS.

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Dash number	Shell size		A MAX	D MAX	E MAX	Cable diameter (ref)	
	Series II	Series I				MIN	MAX
8	8	9	.578	.656	1.015	.094	.203
10	10	11	.703	.688	1.062	.141	.250
12	12	13	.828	.750	1.125	.172	.323
14	14	15	.953	.859	1.328	.203	.422
16	16	17	1.078	.937	1.392	.234	.500
18	18	19	1.203	1.000	1.453	.265	.562
20	20	21	1.328	1.062	1.609	.297	.625
22	22	23	1.453	1.141	1.656	.328	.703
24	24	25	1.578	1.203	1.719	.359	.765

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.008	.20	.265	6.73	.656	16.66	1.062	26.97
.015	.38	.297	7.54	.688	17.48	1.078	27.38
.025	.64	.323	8.20	.703	17.86	1.125	28.58
.065	1.65	.328	8.33	.750	19.05	1.141	28.98
.094	2.39	.359	9.12	.765	19.43	1.203	30.56
.141	3.58	.365	9.27	.828	21.03	1.328	33.73
.172	4.37	.422	10.72	.859	21.82	1.392	35.36
.203	5.16	.500	12.70	.937	23.80	1.453	36.91
.204	5.18	.562	14.27	.953	24.21	1.578	40.08
.234	5.91	.578	14.68	1.000	25.40	1.609	40.87
.250	6.35	.625	15.88	1.015	25.78	1.656	42.06
						1.719	43.66

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Dimensions apply after plating.
4. A slit or slot must break through elbow in area indicated to facilitate assembly or disassembly of support from nut.
5. Unit may be supplied with nut and support unattached for assembly by user.
6. Existing parts manufactured to MIL-C-85049/46 may be used until 1 year after date of this document.
7. The cable support must contain a minimum of 3 drain holes on -8 thru -12 and a minimum of 7 drain holes on -14 thru -24. Each drain hole must have a minimum cross section of .005 sq. in. (.13 sq. mm).

FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

## REQUIREMENTS:

## Design and construction:

Dimensions and configuration: See figure 1.

Interface dimensions shall conform to MIL-C-38999.

## Material:

Nut: Aluminum alloy in accordance with MIL-C-85049.

Cable support: Nonmetallic.

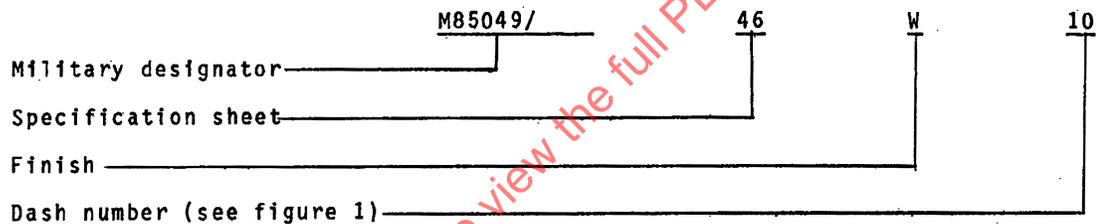
Finish; nut: A, W.

## Temperature rating:

- 65°F to +250°F continuous.
- +345°F for 10 minute intervals.
- +420°F for 1 minute intervals.
- Estimate cumulative life, 24 hours at 345°F and 7 hours at 420°F.

Position of slots relative to opposite opening is optional.

Part number: See example below:



## Qualification:

See MIL-C-85049, category 4C.

Bending moment not applicable.

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