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REV.  
C

AS85049™/45

FEDERAL SUPPLY CLASS  
5935

#### RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, REMOVE IMAGES, ADD FINISH TABLE, CLARIFY FINISH RESTRICTIONS, AND ADD PRODUCT RESTRICTION FOR EXISTING DESIGN USAGE ONLY.

#### NOTICE

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

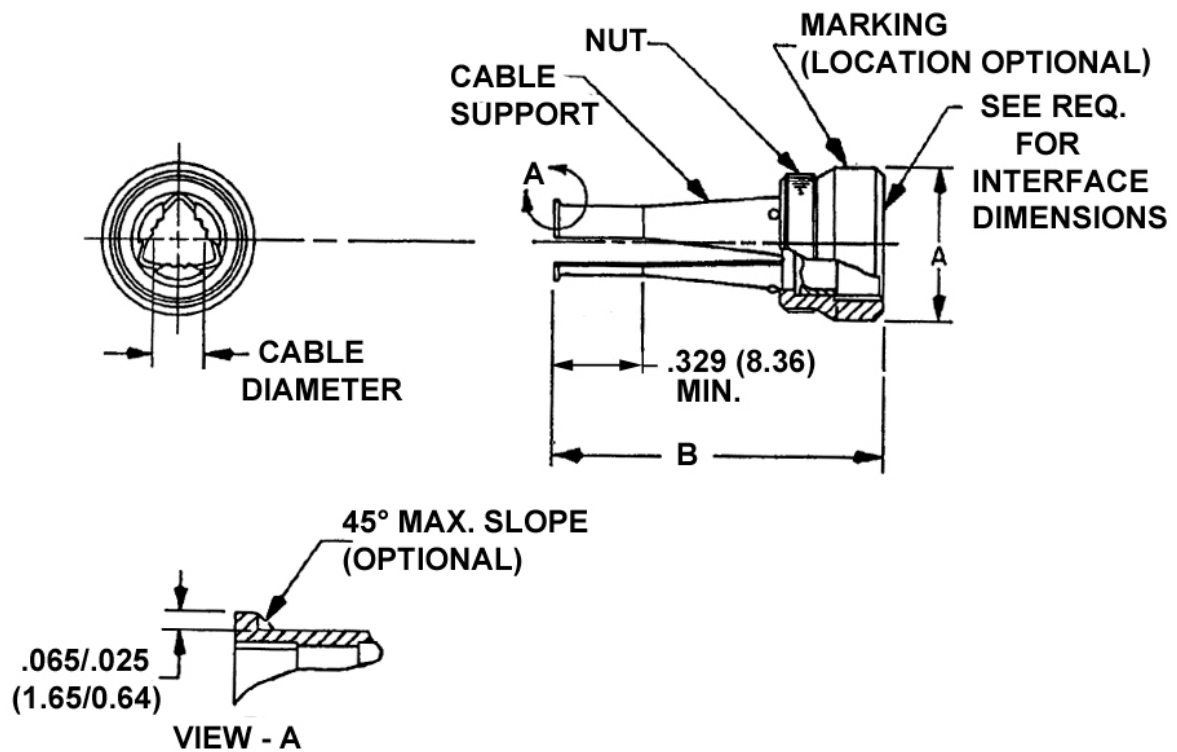
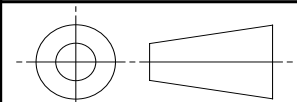


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS85049/45C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



#### AEROSPACE STANDARD

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

AS85049™/45  
SHEET 1 OF 3

REV.  
C

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**TABLE 1 – FIGURE 1 DIMENSIONS**

| DASH<br>NUMBER | SHELL<br>SIZE |          | A<br>MAX.     | B<br>MAX.     | CABLE<br>DIAMETER |              |
|----------------|---------------|----------|---------------|---------------|-------------------|--------------|
|                | SERIES II     | SERIES I |               |               | MIN.              | MAX.         |
| 8              | 8             | 9        | .578 (14.68)  | 1.344 (34.14) | .094 (2.39)       | .203 (5.16)  |
| 10             | 10            | 11       | .703 (17.86)  | 1.344 (34.14) | .141 (3.58)       | .250 (6.35)  |
| 12             | 12            | 13       | .828 (21.03)  | 1.344 (34.14) | .172 (4.37)       | .323 (8.20)  |
| 14             | 14            | 15       | .953 (24.21)  | 1.344 (34.14) | .203 (5.16)       | .422 (10.72) |
| 16             | 16            | 17       | 1.078 (27.38) | 1.344 (34.14) | .234 (5.94)       | .500 (12.70) |
| 18             | 18            | 19       | 1.203 (30.56) | 1.344 (34.14) | .265 (6.73)       | .562 (14.27) |
| 20             | 20            | 21       | 1.328 (33.73) | 1.422 (36.12) | .297 (7.54)       | .625 (15.88) |
| 22             | 22            | 23       | 1.453 (36.91) | 1.422 (36.12) | .328 (8.33)       | .703 (17.86) |
| 24             | 24            | 25       | 1.578 (40.08) | 1.422 (36.12) | .359 (9.12)       | .765 (19.43) |

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

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM.

POSITION OF SLOTS RELATIVE TO OPPOSITE OPENING IS OPTIONAL.

INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 2.

2. MATERIAL AND FINISH: AS SPECIFIED IN TABLE 2 AND AS LISTED BELOW.

CABLE SUPPORT: NONMETALLIC.

**TABLE 2 - MATERIAL AND FINISH**

| NUT | MATERIAL                                         | FINISH                              |
|-----|--------------------------------------------------|-------------------------------------|
|     | ALUMINUM ALLOY IN ACCORDANCE<br>WITH SAE AS85049 | A, W <u>1</u> /, X, Y, Z <u>1</u> / |

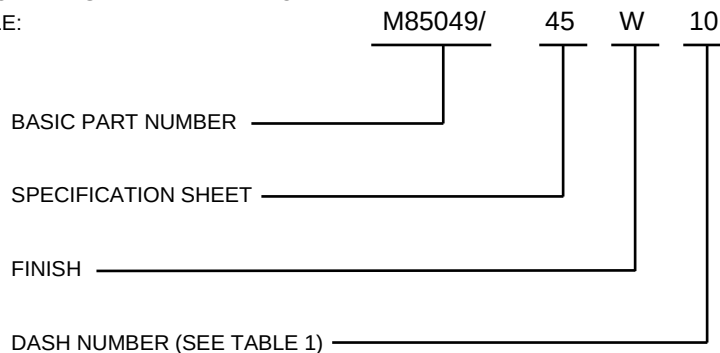
1/ W AND Z FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUTGASSING (ALSO SEE SPECIFICATION NOTES).

3. TEMPERATURE RATING:

- 65 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.

4. PART NUMBER: SEE EXAMPLE BELOW:

EXAMPLE:



|                                                                                     |                                                                                                                                                                            |                                    |                         |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>                                                                                                                                                  | <b>AS85049™/45</b><br>SHEET 2 OF 3 | <b>REV.</b><br><b>C</b> |
|                                                                                     | (R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN<br>RELIEF STRAIGHT, NONMETALLIC, CATEGORY 4C<br>(FOR MIL-DTL-27599 SERIES I AND MIL-DTL-38999<br>SERIES I AND II CONNECTORS) |                                    |                         |



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