

REV.  
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AS85049/27

FEDERAL SUPPLY CLASS  
5935

THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.

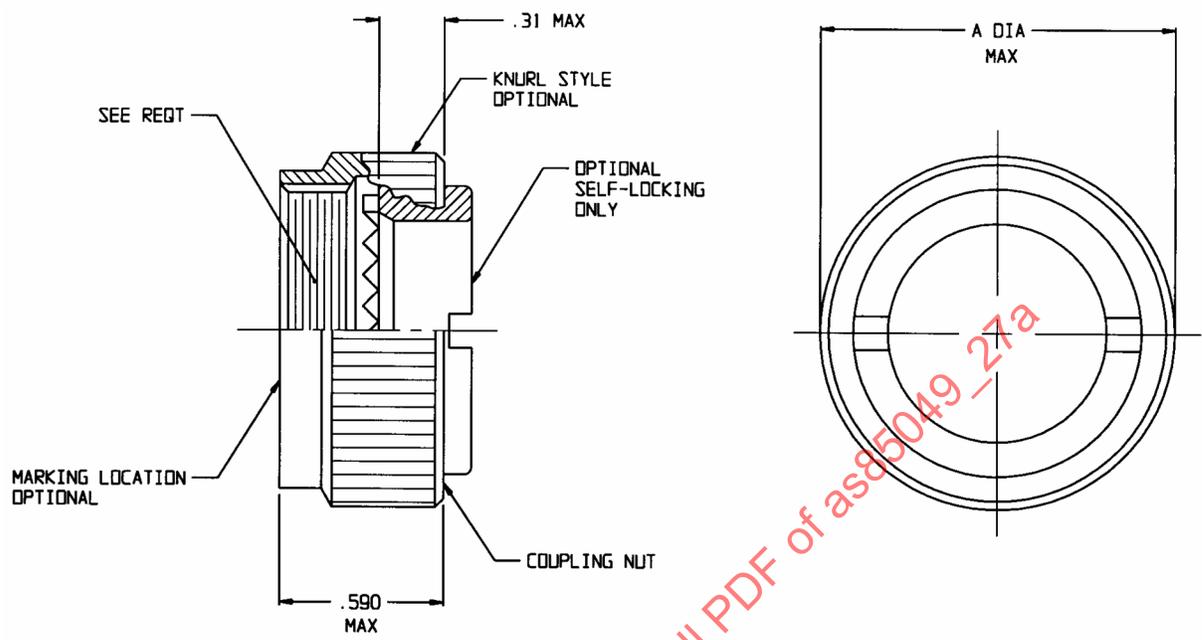
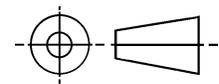


FIGURE 1 - DIMENSIONS AND CONFIGURATIONS (SELF-LOCKING ONLY)

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THIRD ANGLE PROJECTION



ISSUED 2000-04 REVISED 2003-06

CUSTODIAN: SAE AE-8/AE-8C1

**SAE Aerospace**  
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**AEROSPACE STANDARD**

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, STRAIGHT, SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

**AS85049/27**  
SHEET 1 OF 5

**REV.  
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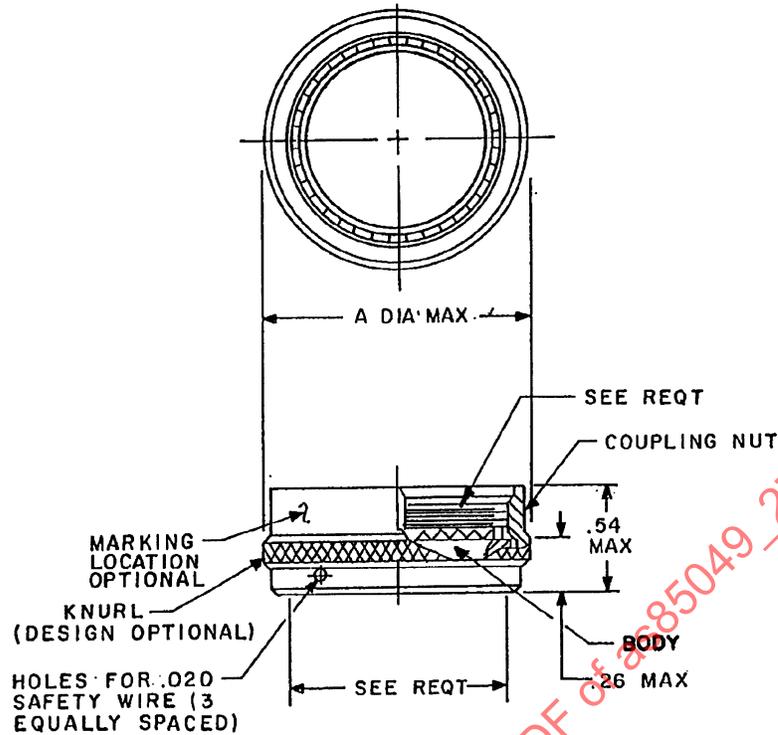
## Shell sizes and dimensions

Dash number	Shell size		A dia max
	Series II	Series I	Self-locking only
8	8	9	.859 (21.82)
10	10	11	.984 (24.99)
12	12	13	1.156 (29.36)
14	14	15	1.281 (32.54)
16	16	17	1.406 (35.71)
18	18	19	1.516 (38.50)
20	20	21	1.641 (41.68)
22	22	23	1.766 (44.86)
24	24	25	1.891 (48.03)

## NOTES:

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

FIGURE 1 - DIMENSIONS AND CONFIGURATIONS (SELF-LOCKING ONLY) - CONTINUED



Shell sizes and dimensions

Dash number	Shell size		A dia max
	Series II	Series I	Nonself-locking only
8	8	9	.75 (19.1)
10	10	11	.85 (21.6)
12	12	13	1.00 (25.4)
14	14	15	1.10 (27.9)

Dash number	Shell size		A dia max
	Series II	Series I	Nonself-locking only
16	16	17	1.25 (31.8)
18	18	19	1.40 (35.6)
20	20	21	1.50 (38.1)
22	22	23	1.65 (41.9)
24	24	25	1.75 (44.5)

NOTES:

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

FIGURE 2 - DIMENSIONS AND CONFIGURATIONS (NON-SELF-LOCKING ONLY)

## REQUIREMENTS:

## 1. DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATIONS: SEE FIGURES 1 AND 2.

## 2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH SAE AS85049, FIGURE 2.

## 3. ACCESSORY: CONSISTS OF A COUPLING NUT AND FOLLOWER. THE COUPLING NUT SHALL BE CAPTIVATED TO THE FOLLOWER AND ROTATEABLE. THIS ACCESSORY WILL NOT ACCOMMODATE CONNECTORS USING SIZE 8, 4, OR 0 CONTACTS.

## 4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.

## 5. MATERIAL: ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049.

## 6. FINISH: IN ACCORDANCE WITH SAE AS85049, N 1/ OR W 2/.

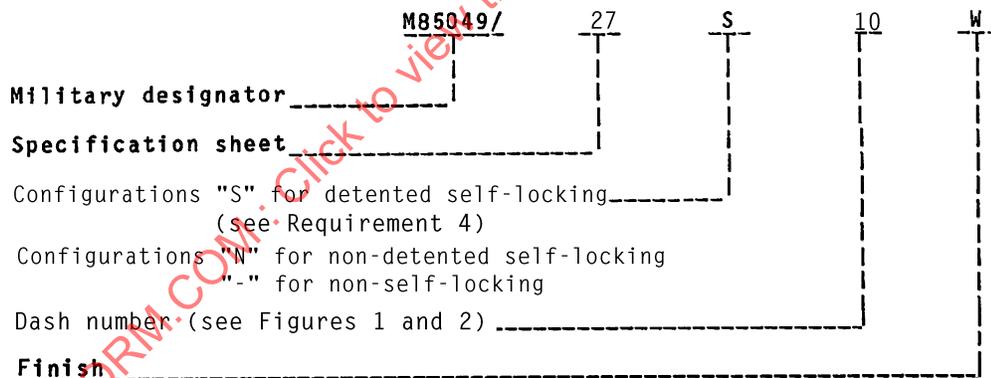
## 7. SELF-LOCKING DEVICES DESIGN AND CONSTRUCTION: COUPLINGS WITH SELF-LOCKING DEVICES SHALL MEET ALL THE REQUIREMENTS SPECIFIED HEREIN FOR ITS SPECIFIC CATEGORY AND THE FOLLOWING ADDITIONAL TESTS:

- a. LIFE CYCLE: SEE SAE AS85049, PARAGRAPH 3.5.13.
- b. VIBRATION: SEE SAE AS85049, PARAGRAPH 3.5.4.1.

## 8. QUALIFICATION: SEE SAE AS85049, CATEGORY 3B. BENDING MOMENT NOT APPLICABLE. CABLE PULLOUT NOT APPLICABLE. ACCESSORY SHALL BE TESTED WITH MIL-DTL-38999 SERIES I CONNECTORS.

## 9. QUALIFICATION IS REQUIRED FOR U.S. GOVERNMENT PROCUREMENT. THE QPL EVALUATING ACTIVITY, FOR U.S. DEPARTMENT OF DEFENSE PROCUREMENT PURPOSES, NAVAL AIR SYSTEMS COMMAND (CODE 4.4.4.3), 48142 SHAW ROAD, BLDG. 3197, SUITE E, PATUXENT RIVER, MD 20670.

## 10. PART NUMBER: SEE EXAMPLE BELOW:



## NOTES:

1. 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.

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