

REV.
A

AS85049/121

FEDERAL SUPPLY CLASS
5935

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

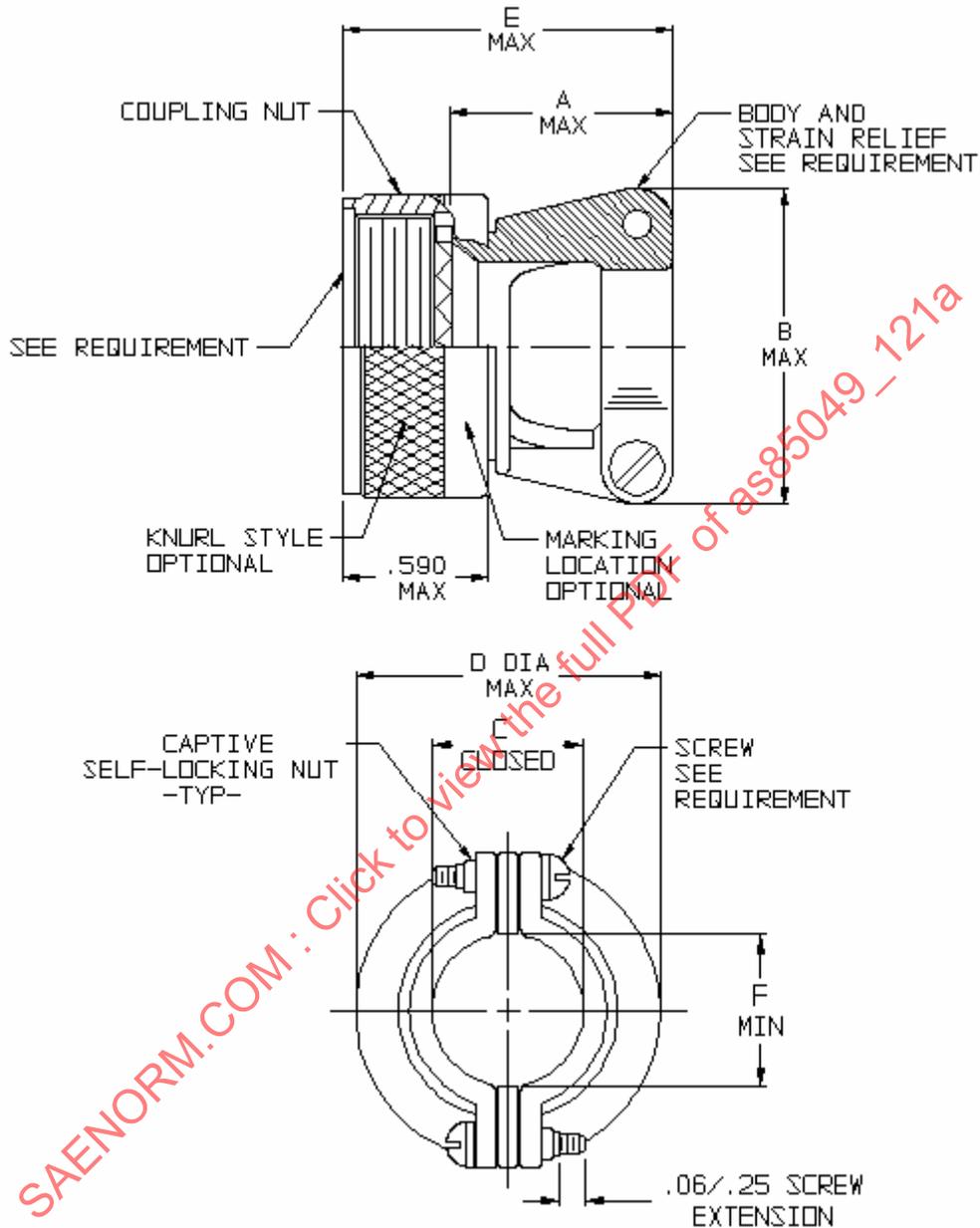
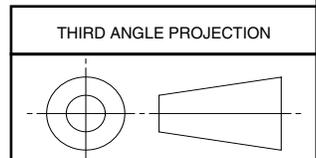


FIGURE 1 - DIMENSION AND CONFIGURATION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, STRAIGHT SELF-LOCKING, AND NON-SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049/121
SHEET 1 OF 4

REV.
A

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TABLE 1 - SHELL SIZES AND DIMENSIONS

| DASH NO. | CONNECTOR SHELL SIZE | | A | B | C | D | E | F | SCREW SIZE (REF) |
|----------|----------------------|--------|--------------------------|----------------|-------------------------|------------------|--------------------------|---------------|------------------|
| | SER. II | SER. I | LENGTH 1/ | MAX | $\pm .031$ DIM 2/ | MAX DIA | MAX OVERALL LENGTH | MIN | |
| 08 | 8 | 9 | .77/.51 (19.6/12.9) | .88 (22.4) | .219 (5.56) | .858 (21.79) | 1.01 (25.6) | .22 (5.6) | 6-32 |
| 10 | 10 | 11 | .89/.64 (22.6) | .94 (23.9) | .264 (6.71) | .984 (24.99) | 1.13 (28.5) | .27 (6.9) | 6-32 |
| 12 | 12 | 13 | 1.01/.76 (25.7/19.3) | 1.12 (28.4) | .344 (8.74) | 1.157 (29.39) | 1.25 (31.6) | .35 (8.9) | 6-32 |
| 14 | 14 | 15 | 1.01/.76 (25.7/19.3) | 1.19 (30.2) | .460 (11.68) | 1.279 (32.49) | 1.25 (31.6) | .47 (11.9) | 6-32 |
| 16 | 16 | 17 | 1.13/.88 (28.7/22.4) | 1.44 (36.6) | .545 (13.84) | 1.406 (35.71) | 1.37 (34.7) | .55 (14.0) | 6-32 |
| 18 | 18 | 19 | 1.38/1.13 (35.1/28.7) | 1.56 (39.6) | .615 (15.62) | 1.516 (34.50) | 1.62 (41.0) | .62 (15.7) | 8-32 |
| 20 | 20 | 21 | 1.51/1.26 (38.4/31.9) | 1.69 (42.9) | .698 (17.73) | 1.642 (41.70) | 1.75 (44.3) | .70 (17.8) | 8-32 |
| 22 | 22 | 23 | 1.63/1.38 (41.4/35.1) | 1.75 (44.5) | .780 (19.81) | 1.768 (44.91) | 1.87 (47.4) | .78 (19.8) | 8-32 |
| 24 | 24 | 25 | 1.76/1.51 (44.7/38.4) | 1.88 (47.8) | .850 (21.59) | 1.869 (47.98) | 2.00 (50.7) | .85 (21.6) | 8-32 |

1/ THE "A" DIMENSION IS MEASURED FROM THE BOTTOM OF THE ACCESSORY TEETH TO THE END OF THE STRAIN RELIEF

2/ CABLE ENTRY IS MEASURED WITH SADDLE BARS CLOSED AND BOTTOMED ON CLAMP EARS.

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. DIMENSIONS APPLY AFTER PLATING.
3. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 mm = 1 INCH.
4. MILLIMETERS ARE IN PARENTHESES.
5. CLAMP ACCOMMODATES AS85049/127 BUSHING.

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.
2. INTERFACE DIMENSIONS SHALL CONFORM TO SAE AS85049, FIGURE 2
3. ACCESSORIES CONSIST OF A COUPLING NUT, BODY AND STRAIN RELIEF THE COUPLING NUT SHALL BE CAPTIVATED TO, AND ROTATABLE ON THE BODY.
4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.
5. CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
6. MATERIAL AND FINISH: SEE TABLE 2. ACCESSORIES SHALL BE AS SHOWN IN TABLE 2.
7. LOCKNUTS AND SCREWS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE. SILVER PLATE OPTIONAL.
8. SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.

TABLE 2 - MATERIAL AND FINISH

| FIGURE | MATERIAL | FINISH |
|--------|---|--------------------------------|
| 1 | ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049 | A N <u>1</u> / W <u>2</u> / |
| | CORROSION RESISTANT STEEL 300 SERIES IN ACCORDANCE WITH SAE AMS 763 | S |

1/ NOT FOR NAVY USE. AIR FORCE USE IS FOR SPACE APPLICATIONS ONLY. W IS THE PREFERRED FINISH.
2/ W IS NOT FOR USE IN SPACE APPLICATION.

SELF-LOCKING DEVICES DESIGN AND CONSTRUCTION:

1. COUPLINGS WITH SELF-LOCKING DEVICES SHALL MEET ALL THE REQUIREMENTS SPECIFIED HEREIN FOR ITS SPECIFIC CATEGORY AND THE FOLLOWING ADDITIONAL TEST:
 - a. LIFE CYCLE: SEE AS85049 PARA 4.6.15
 - b. VIBRATION: SEE AS85049 PARA 3.5.4.1