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REV. A
AS81511™/13

FEDERAL SUPPLY CLASS
5935

RATIONALE

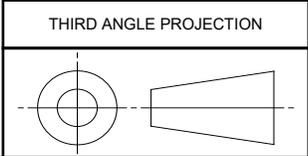
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STABILIZED NOTICE

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<https://www.sae.org/standards/content/AS81511/13A>



| | | | |
|-------------------|---|------------------------------------|--------------------|
| CUSTODIAN: AE-8C1 | | PROCUREMENT SPECIFICATION: AS81511 | |
| | AEROSPACE STANDARD | | AS81511™/13 |
| | ACCESSORY, F ADAPTER, ROTATABLE, CONNECTOR ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING, TYPE 1 (SERIES 1 OR 2) | | |

ISSUED 2014-10 REAFFIRMED 2019-12 STABILIZED 2025-03

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81511.

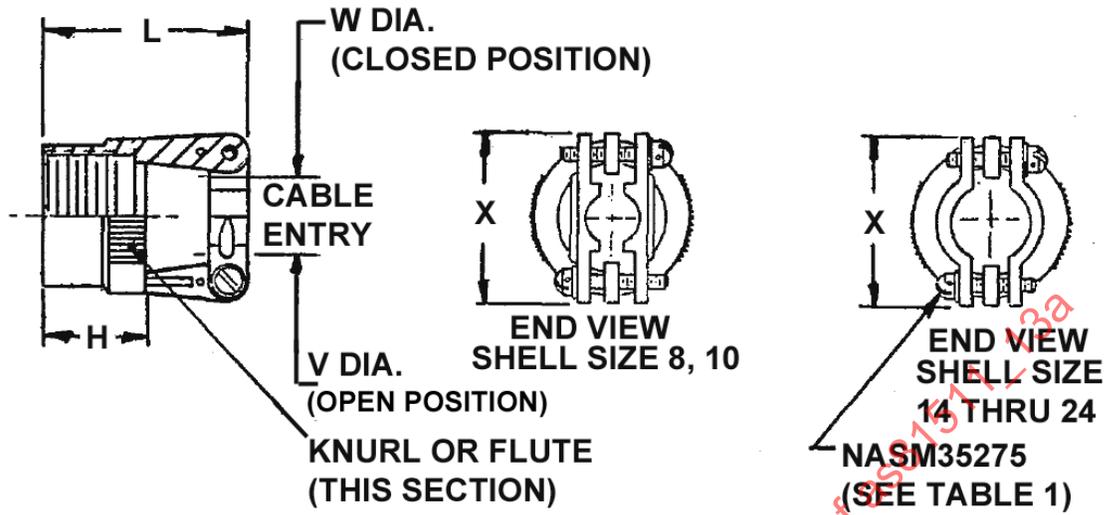


FIGURE 1 - CONNECTOR ACCESSORY, F ADAPTER

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| | | | |
|---|---|------------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS81511™/13 SHEET 1 OF 3 | REV. A |
| | ACCESSORY, F ADAPTER, ROTATABLE, CONNECTOR ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING, TYPE 1 (SERIES 1 OR 2) | | |

TABLE 1 - PART NUMBER AND CHARACTERISTICS

| PART NUMBER M81511/13- | TEMP. RATING (°C) | SHELL SIZE | APPROX. WEIGHT (LB) | CABLE RANGE | | X MAX. | H | L | APPLICABLE CONNECTOR CLASSES | APPLICABLE SCREW DASH NUMBER NASM35275- |
|---------------------------|----------------------|------------|------------------------|-------------|-----------|-----------|-----------------|------------------|------------------------------|--|
| | | | | V DIA. | W DIA. | | | | | |
| 08A1 | 175 | 8 | .016 | .125 | .062 | .775 | .625 (15.88) | 1.375 (34.93) | E, W | 217 |
| 08B1 | 200 | | | (3.18) | (1.57) | (19.69) | .562 (14.27) | 1.312 (33.32) | A, F | 217 |
| 10A1 | 175 | 10 | .018 | .250 | .125 | .955 | .625 (15.88) | 1.375 (34.93) | E, W | 218 |
| 10B1 | 200 | | | (6.35) | (3.18) | (24.26) | .562 (14.27) | 1.312 (33.32) | A, F | 218 |
| 14A1 | 175 | 14 | .023 | .500 | .250 | 1.145 | .625 (15.88) | 1.375 (34.93) | E, W | 219 |
| 14B1 | 200 | | | (12.70) | (6.35) | (29.08) | .562 (14.27) | 1.312 (33.32) | A, F | 219 |
| 16A1 | 175 | 16 | .026 | .625 | .375 | 1.210 | .625 (15.88) | 1.375 (34.93) | E, W | 219 |
| 16B1 | 200 | | | (15.88) | (9.53) | (30.73) | .562 (14.27) | 1.312 (33.32) | A, F | 219 |
| 18A1 | 175 | 18 | .031 | .750 | .500 | 1.330 | .625 (15.88) | 1.375 (34.93) | E, W | 219 |
| 18B1 | 200 | | | (19.05) | (12.70) | (33.78) | .562 (14.27) | 1.312 (33.32) | A, F | 219 |
| 20A1 | 175 | 20 | .036 | .875 | .625 | 1.470 | .703 (17.86) | 1.452 (36.88) | E, W | 220 |
| 20B1 | 200 | | | (22.23) | (15.88) | (37.34) | .640 (16.26) | 1.390 (35.31) | A, F | 220 |
| 22A1 | 175 | 22 | .043 | 1.000 | .750 | 1.580 | .703 (17.86) | 1.452 (36.88) | E, W | 221 |
| 22B1 | 200 | | | (25.40) | (19.05) | (40.13) | .640 (16.26) | 1.390 (35.31) | A, F | 221 |
| 24A1 | 175 | 24 | .051 | 1.125 | .750 | 1.720 | .703 (17.86) | 1.452 (36.88) | E, W | 221 |
| 24B1 | 200 | | | (28.58) | (19.05) | (43.69) | .640 (16.26) | 1.390 (35.31) | A, F | 221 |

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81511.

1. DESIGN:

ADAPTERS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.016 INCHES. THIS REAR ACCESSORY SHALL CONFORM TO THE AS81511 FIGURE TITLED "DESIGN STANDARD FOR ROTATABLE ACCESSORY HARDWARE."

2. MATERIALS/PLATING:

FINISH: 175 °C-CADMIUM PLATE OVER NICKEL, OLIVE DRAB IN COLOR (FOR USE WITH CLASS E AND W CONNECTORS)
200 °C-ELECTROLESS NICKEL (FOR USE WITH CLASS A AND F CONNECTORS)

BODY AND SADDLES: ALUMINUM ALLOY IN ACCORDANCE WITH AS81511.

SCREWS: IN ACCORDANCE WITH NASM35275 (SEE TABLE 1)

APPLICATION NOTES:

- AS81511 CONNECTORS AND ACCESSORIES ARE NOT RECOMMENDED FOR NEW DESIGN.

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|---|---|------------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS81511™/13 SHEET 2 OF 3 | REV. A |
| | ACCESSORY, F ADAPTER, ROTATABLE, CONNECTOR ELECTRICAL, CIRCULAR, HIGH DENSITY, QUICK DISCONNECT, ENVIRONMENT RESISTING, TYPE 1 (SERIES 1 OR 2) | | |