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AS81044/7

FEDERAL SUPPLY CLASS
6145

NOTICE

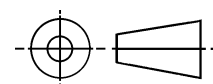
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THIRD ANGLE PROJECTION



PREPARED BY SAE SUBCOMMITTEE AE-8D

SAE Aerospace
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AEROSPACE STANDARD

WIRE, ELECTRIC, CROSSLINKED POLYALKENE
INSULATED, SILVER-COATED HIGH STRENGTH COPPER
ALLOY, NORMAL WEIGHT, 600-VOLT, 150°C

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SHEET 1 OF 3

ISSUED 2000-09 REAFFIRMED 2007-11

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AS81044/7

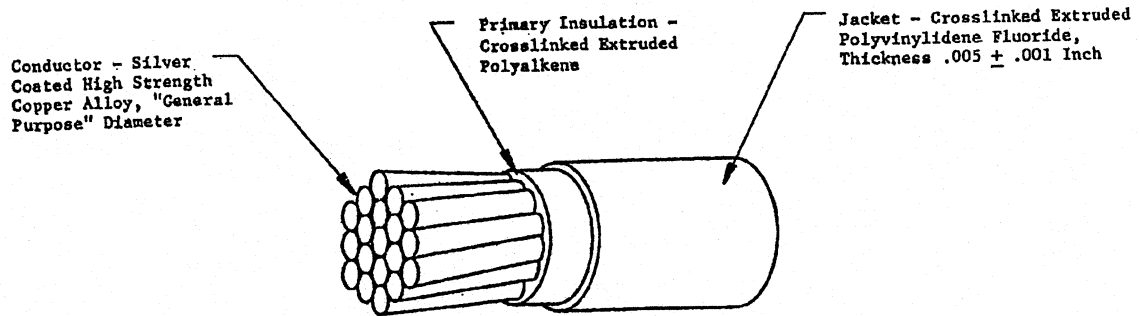


TABLE I. CONSTRUCTION DETAILS

| Part No. ^{1/} | Wire size | Stranding (Number of strands X AWG gage of strands) | Diameter of stranded conductor (inches) | | Finished wire | | | |
|------------------------|-----------|--|---|-------|---|-------------------|----------------------|-------|
| | | | | | Resistance at 20°C (68°F) (ohms/1000 ft.) (max) | Diameter (inches) | Weight (lbs/1000 ft) | |
| | | | (min) | (max) | | | (nom) ^{2/} | (max) |
| M81044/7-26-A | 26 | 19 X 38 | .018 | .020 | 44.8 | .053 \pm .002 | 2.1 | 2.2 |
| M81044/7-24-A | 24 | 19 X 36 | .023 | .025 | 28.4 | .057 \pm .002 | 2.8 | 3.0 |
| M81044/7-22-A | 22 | 19 X 34 | .029 | .032 | 17.5 | .069 \pm .003 | 4.1 | 4.3 |
| M81044/7-20-A | 20 | 19 X 32 | .037 | .040 | 10.7 | .078 \pm .003 | 5.6 | 6.1 |

^{1/} PART NO.: The asterisks in the part number column, Tables I and II, shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M81044/7-20-9; white with orange stripe - M81044/7-20-93.

^{2/} Nominal values are for information only. Nominal values are not requirements.

TABLE II. PERFORMANCE DETAILS

| Part No. | Abrasion resistance (Procedure I) | | | | Bend testing | | | | |
|---------------|---|------------------------|--------------|--------------------|--|----------------|-----------|--|----------------|
| | Resistance (inches of tape) (min) (initial and after immersion) | Weight support bracket | Weight (lbs) | Tension load (lbs) | Mandrel diameter (inches) ($\pm 3\%$) | | | Test load (lbs) ($\pm 3\%$) | |
| | | | | | Life cycle test and accelerated aging test ^{1/} | Cold bend test | Wrap test | Life cycle test and accelerated aging test ^{1/} | Cold bend test |
| | | | | | | | | | |
| M81044/7-26-A | 12 | A | 0.5 | 1.0 | .50 | 1.0 | .25 | 1.0 | 3.0 |
| M81044/7-24-A | 12 | A | 1.0 | 1.0 | .50 | 1.0 | .25 | 1.0 | 3.0 |
| M81044/7-22-A | 22 | A | 1.0 | 1.0 | .75 | 1.0 | .25 | 3.0 | 3.0 |
| M81044/7-20-A | 22 | A | 1.0 | 1.0 | .75 | 1.0 | .25 | 4.0 | 4.0 |

^{1/} Also for bend tests after immersion.