

| TABLE I. CONSTRUCTION DETAILS | | | | | | | | |
|-------------------------------|-----------------------|--|--|---------|----------------------------------|--------------------|-------------------|--|
| | WIRE SIZE (AWG) | CONDUCTOR STRANDING (number x AWG) | DIAMETER OF STRANDED CONDUCTOR (inch) | | FINISHED WIRE | | | |
| PART NUMBER <u>1</u> / | | | | | MAXIMUM RESISTANCE AT 20°C | DIAMETER (inch) | MAXIMUM WEIGHT | |
| | | | MINIMUM | MAXIMUM | (ohms/1000 ft.) | | (lbs/1000 ft.) | |
| 55A0812-26-* | 26 | 19 x 38 | .018 | .019 | 38.4 | .040 ± .002 | 1.70 | |
| 55A0812-24-* | 24 | 19 x 36 | .023 | .024 | 24.3 | .045 ± .002 | 2.30 | |
| 55A0812-22-* | 22 | 19 x 34 | .029 | .030 | 15.1 | .050 ± .002 | 3.20 | |
| 55A0812-20-* | 20 | 19 x 32 | .037 | .038 | 9.19 | .058 ± .002 | 4.70 | |
| 55A0812-18-* | 18 | 19 x 30 | .046 | .048 | 5.79 | .070 ± .003 | 7.20 | |
| 55A0812-16-* | 16 | 19 x 29 | .052 | .054 | 4.52 | .077 ± .003 | 9.00 | |
| 55A0812-14-* | 14 | 19 x 27 | .065 | .068 | 2.88 | .094 ± .003 | 13.8 | |
| 55A0812-12-* | 12 | 37 x 28 | .084 | .087 | 1.90 | .111 ± .003 | 20.5 | |
| 55A0812-10-* | 10 | 37 x 26 | .106 | .112 | 1.19 | .134 ± .004 | 32.4 | |
| 55A0812-8-* | 8 | 133 x 29 | .158 | .169 | .658 | .195 ± .008 | 61.9 | |
| 55A0812-6-* | 6 | 133 x 27 | .198 | .213 | .418 | .241 ± .010 | 94.5 | |
| 55A0812-4-* | 4 | 133 x 25 | .250 | .268 | .264 | .310 ± .010 | 158. | |
| 55A0812-2-* | 2 | 665 x 30 | .320 | .340 | .170 | .408 ± .012 | 249. | |
| 55A0812-1-* | 1 | 817 x 30 | .360 | .380 | .139 | .470 ± .012 | 329. | |
| 55A0812-0-* | 0 | 1045 x 30 | .395 | .425 | .108 | .510 ± .016 | 404. | |
| 55A0812-00-* | 00 | 1330 x 30 | .440 | .475 | .085 | .570 ± .016 | 500. | |
| 55A0812-000-* | 000 | 1665 x 30 | .500 | .540 | .068 | .610 ± .016 | 594. | |
| 55A0812-0000-* | 0000 | 2109 x 30 | .565 | .605 | .054 | .675 ± .022 | 746. | |

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|------------------|--|--------------|---|
| | 1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPO | | |
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| | TABLE I | I. PERFORMANCE | DETAILS | | |
|------------------------------|--|----------------|--|--------------|--|
| PART NUMBER <u>1</u> / | MANDREL DIAMETI (inch) (± 3%) | ER | WEIGHT (lb) (± 3%) | | |
| | LIFE CYCLE, IMMERSION, AND ACCELERATED AGING | COLD BEND | LIFE CYCLE, IMMERSION, AND ACCELERATED AGING | COLD BEND | |
| 55A0812-26-* | .375 | 1.00 | .500 | 3.00 | |
| 55A0812-24-* | .500 | 1.00 | .750 | 3.00 | |
| 55A0812-22-* | .500 | 1.00 | 1.00 | 3.00 | |
| 55A0812-20-* | .500 | 1.00 | 1.50 | 4.00 | |
| 55A0812-18-* | .750 | 1.50 | 2.00 | 4.00 | |
| 55A0812-16-* | 1.00 | 1.50 | 2.00 | 5.00 | |
| 55A0812-14-* | 1.00 | 2.00 | 3.00 | 5.00 | |
| 55A0812-12-* | 1.50 | 2.00 | 3.00 | 5.00 | |
| 55A0812-10-* | 2.00 | 3.00 | 3.00 | 5.00 | |
| 55A0812-8-* | 3.00 | 4.00 | 4.00 | 6.00 | |
| 55A0812-6-* | 4.00 | 5.00 | 4.00 | 10.0 | |
| 55A0812-4-* | 5.00 | 6.00 | 4.00 | 10.0 | |
| 55A0812-2-* | 6.00 | 8.00 | 6.00 | 15.0 | |
| 55A0812-1-* | 8.00 | 10.0 | 6.00 | 15.0 | |
| 55A0812-0-* | 8.00 | 10.0 | 6.00 | 15.0 | |
| 55A0812-00-* | 10.0 | 12.0 | 8.00 | 20.0 | |
| 55A0812-000-* | 10.0 | 12.0 | 8.00 | 20.0 | |
| 55A0812-0000-* | 10.0 | 12.0 | 8.00 | 20.0 | |

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 230 ± 3°C for 24 hours COLOR: White preferred CONCENTRICITY: 70% (minimum) FLAMMABILITY: Procedure 1, 3 seconds (maximum), 3 inches (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum), AWG 26-10 3000 megohms for 1000 ft. (minimum), AWG 8-0000 IDENTIFICATION, COLOR STRIPING, AND BAND DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Elongation, 125% (minimum) for primary insulation, AWG 26-10 only 75% (minimum) for total insulation (primary insulation & jacket) Tensile Strength, 5000 lbf/in2 (minimum) for primary insulation 5000 lbf/in² (minimum) for total insulation (primary insulation & jacket) **INSULATION FLAWS:** Primary Insulation, Spark Test, 1.5 kV (rms) at 60 Hz; 4.2 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak) Finished Wire. Spark Test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum), AWG 26-10 3000 megohms for 1000 ft. (minimum), AWG 8-0000 INSULATION THICKNESS: 0.003 in. (minimum) for primary insulation 0.004 in. (minimum) for outer jacket 0.009 in. (minimum) for total insulation LIFE CYCLE: 230 ± 3°C for 500 hours LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches SMOKE TEST: 250 ± 5°C, no visible smoke SOLDERABILITY (AWG 10 and smaller only): Per MIL-STD-202, Method 208, except without steam aging SURFACE RESISTANCE: 500 meghoms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum), AWG 26-12 0.100 in. (maximum), AWG 10-8 0.125 in. (maximum), AWG 6-0000 VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz WICKING: 2.25 in. (maximum) WRAP TEST: 313 ± 3°C for 2 hours 1/ PART NUMBER: The "*" in the part numbers in Tables I and II shall be replaced by a color code designator. Example: AWG 22, white: 55A0812-22-9 AWG 22, white with a black stripe: 55A0812-22-90

1/ See footer section on page 1

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