

| TABLE I. CONSTRUCTION DETAILS | | | | | | | |
|-------------------------------|-----------------------|--|---------------------------------|---------|----------------------------------|--------------------|-------------------|
| | | | | TER OF | FINISHED WIRE | | |
| PART NUMBER <u>1</u> / | WIRE SIZE (AWG) | CONDUCTOR STRANDING (number x AWG) | STRANDED CONDUCTOR (inch) | | MAXIMUM RESISTANCE AT 20°C | DIAMETER (inch) | MAXIMUM WEIGHT |
| | | | MINIMUM | MAXIMUM | (ohms/1000 ft.) | ~ / | (lbs/1000 ft.) |
| 55A0811-28-* | 28 | 7 x 36 | .014 | .016 | 68.6 | .035 ± .002 | 1.30 |
| 55A0811-26-* | 26 | 19 x 38 | .018 | .020 | 41.3 | .040 ± .002 | 1.70 |
| 55A0811-24-* | 24 | 19 x 36 | .023 | .024 | 26.2 | .045 ± .002 | 2.30 |
| 55A0811-22-* | 22 | 19 x 34 | .029 | .031 | 16.2 | .050 ± .002 | 3.20 |
| 55A0811-20-* | 20 | 19 x 32 | .037 | .039 | 9.88 | .058 ± .002 | 4.70 |
| 55A0811-18-* | 18 | 19 x 30 | .046 | .049 | 6.23 | .070 ± .003 | 7.20 |
| 55A0811-16-* | 16 | 19 x 29 | .052 | .055 | 4.81 | .077 ± .003 | 9.00 |
| 55A0811-14-* | 14 | 19 x 27 | .065 | .069 | 3.06 | .094 ± .003 | 13.8 |
| 55A0811-12-* | 12 | 37 x 28 | .084 | .089 | 2.02 | .111 ± .003 | 20.5 |
| 55A0811-10-* | 10 | 37 x 26 | .106 | .114 | 1.26 | .134 ± .004 | 32.4 |
| 55A0811-8-* | 8 | 133 x 29 | .158 | .173 | .701 | .195 ± .008 | 60.3 |
| 55A0811-6-* | 6 | 133 x 27 | .198 | .217 | .445 | .241 ± .010 | 94.5 |
| 55A0811-4-* | 4 | 133 x 25 | .250 | .274 | .280 | .310 ± .010 | 150. |
| 55A0811-2-* | 2 | 665 x 30 | .320 | .340 | .183 | .408 ± .012 | 249. |
| 55A0811-1-* | 1 | 817 x 30 | .360 | .380 | .149 | .470 ± .012 | 325. |
| 55A0811-0-* | 0 | 1045 x 30 | .395 | .425 | .116 | .510 ± .016 | 383. |
| 55A0811-00-* | 00 | 1330 x 30 | .440 | .475 | .091 | .570 ± .016 | 500. |
| 55A0811-000-* | 000 | 1665 x 30 | .500 | .540 | .071 | .610 ± .016 | 596. |
| 55A0811-0000-* | 0000 | 2109 x 30 | .565 | .605 | .056 | .675 ± .022 | 753. |

| | | Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer. | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| 1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER. | | | | | | | | | |
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DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL. THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID. Connectivity Ra

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55A0811

| | TABLE I | I. PERFORMANCE | DETAILS | | |
|----------------------|--|----------------|--|--------------|--|
| PART | MANDREL DIAMET (inch) (± 3%) | ER | WEIGHT (lb) (± 3%) | | |
| NUMBER <u>1</u> / | LIFE CYCLE, IMMERSION, AND ACCELERATED AGING | COLD BEND | LIFE CYCLE, IMMERSION, AND ACCELERATED AGING | COLD BEND | |
| 55A0811-28-* | .375 | .750 | .250 | 2.00 | |
| 55A0811-26-* | .375 | 1.00 | .500 | 3.00 | |
| 55A0811-24-* | .500 | 1.00 | .750 | 3.00 | |
| 55A0811-22-* | .500 | 1.00 | 1.00 | 3.00 | |
| 55A0811-20-* | .500 | 1.00 | 1.50 | 4.00 | |
| 55A0811-18-* | .750 | 1.50 | 2.00 | 4.00 | |
| 55A0811-16-* | 1.00 | 1.50 | 2.00 | 5.00 | |
| 55A0811-14-* | 1.00 | 2.00 | 3.00 | 5.00 | |
| 55A0811-12-* | 1.50 | 2.00 | 3.00 | 5.00 | |
| 55A0811-10-* | 2.00 | 3.00 | 3.00 | 5.00 | |
| 55A0811-8-* | 3.00 | 4.00 | 4.00 | 6.00 | |
| 55A0811-6-* | 4.00 | 5.00 | 4.00 | 10.0 | |
| 55A0811-4-* | 5.00 | 6.00 | 4.00 | 10.0 | |
| 55A0811-2-* | 6.00 | 8.00 | 6.00 | 15.0 | |
| 55A0811-1-* | 8.00 | 10.0 | 6.00 | 15.0 | |
| 55A0811-0-* | 8.00 | 10.0 | 6.00 | 15.0 | |
| 55A0811-00-* | 10.0 | 12.0 | 8.00 | 20.0 | |
| 55A0811-000-* | 10.0 | 12.0 | 8.00 | 20.0 | |
| 55A0811-0000-* | 10.0 | 12.0 | 8.00 | 20.0 | |

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 200 ± 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 28-10 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 28-10 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 28-10 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: 200 ± 3°C for 500 hours LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours SHRINKAGE: 200 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches SMOKE TEST: 200 ± 2°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: 150 ± 3°C, 0.060 in. (maximum), AWG 28-12 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: 200 ± 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: 55A0811-22-9 AWG 22, white with a black stripe: 55A0811-22-90

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 83005

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 83009-BLK-100
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