

PARTNUMBER <u>1</u> /	WIRE SIZE (AWG)	STRANDING (number x AWG)	G CONDUCTOR		MAXIMUM RESISTANCEAT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	(ohms/1000ft.)		(
44A0811-26-*	26	19 x 38	.018	.021	41.3	.048 ± .002	1.9
44A0811-24-*	24	19 x 36	.023	.026	26.2	.054 ± .002	2.6
44A0811-22-*	22	19 x 34	.029	.033	16.2	.062 ± .003	3.8
44A0811-20-*	20	19 x 32	.037	.041	9.88	.070 ± .003	5.4
44A0811-18-*	18	19 x 30	.046	.051	6.23	.080 ± .003	8.0
44A0811-16-*	16	19 x 29	.052	.058	4.81	.089 ± .004	9.9
44A0811-14-*	14	19 x 27	.065	.073	3.06	.108 ± .004	14.9
44A0811-12-*	12	37 x 28	.084	.090	2.02	.126 ± .004	21.9
44A0811-10-*	10	37 x 26	.106	.114	1.26	.155 ± .005	35.0
44A0811- 8-*	8	133 x 29	.158	.173	.701	.214 ± .006	62.8
44A0811- 6-*	6	133 x 27	.198	.217	.445	.264 ± .007	99.3
44A0811- 4-*	4	133 x 25	.250	.274	.280	.320 ± .008	153.
44A0811- 2-*	2	665 x 30	.320	.340	.183	.400 ± .012	247.
44A0811- 0-*	0	1045 x 30	.405	.425	.116	.490 ± .016	377.
44A0811-00-*	00	1330 x 30	.450	.475	.091	.562 ± .016	498.
44A0811-000-*	000	1665 x 30	.515	.540	.071	.634 ± .020	588.

	BENDTESTING							
PARTNUMBER <u>1</u> /		L DIAMETER ) (± 3%)	WEIGHT (lb) (± 3%)					
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND			
44A0811-26-*	.500	1.00	.250	0.50	3.00			
44A0811-24-*	.500	1.00	.250	0.50	3.00			
44A0811-22-*	.750	1.00	.250	1.50	3.00			
44A0811-20-*	.750	1.00	.250	2.00	4.00			
44A0811-18-*	1.00	1.50	.375	2.00	4.00			
44A0811-16-*	1.00	1.50	.375	2.00	5.00			
44A0811-14-*	1.50	2.00	.500	2.00	5.00			
44A0811-12-*	2.00	2.00	.500	2.00	5.00			
44A0811-10-*	3.00	3.00	.750	2.00	5.00			
44A0811- 8-*	3.00	4.00	.750	3.00	6.00			
44A0811- 6-*	4.00	5.00	1.00	3.00	10.0			
44A0811- 4-*	5.00	6.00	1.25	3.00	10.0			
44A0811 - 2-*	6.00	8.00	3.00	4.00	15.0			
44A0811- 0-*	8.00	10.0	4 00	4 00	15.0			
44A0811-00-*	10.0.	12.0	4.50	5.00	20.0			
44A0811-000-*	18.0	18.0	6.00	6.00	20.0			

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

TE Connectivity 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. DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.



Page 1 of 2

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

Revision

P1

WIRE RATINGS AND ADDITIONAL REQUIREMENTS **TEMPERATURE RATING: 150°C** Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: 300 ± 2°C for 6 hours Identification legibility, 225 ± 2°C for 6 hours BLOCKING: 150 ± 2°C for 24 hours COLOR: White preferred FLAMMABILITY: 30 seconds (maximum); 3 inches (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft (minimum) IDENTIFICATION, STRIPING, OR 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: Primary Insulation, Elongation, 150% (minimum) Tensile Strength, 2500 lbf/in<sup>2</sup> (minimum), AWG 26-12 2000 lbf/in<sup>2</sup> (minimum), AWG 10 & larger **INSULATION FLAWS:** Primary Insulation, SparkTest, 3.0 kV (rms) at 60 Hz 4.2 kV (rms) at 3 kHz Impulse DielectricTest, 6.0 kV (peak) Finished Wire, SparkTest, 5.7 kV (rms) at 3 kHz Impulse DielectricTest, 8.0 kV (peak) INSULATION RESISTANCE: 5000 megohms for 1000 ft (minimum) LIFE CYCLE: 200 ± 2°C for 168 hours LOW TEMPERATURE COLD BEND: -65 ± 2°C for 4 hours SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 inches, AWG 26-12 0.250 in. (maximum) in 12 inches, AWG 10 & larger SMOKE: 200 ± 2°C, no visible smoke. SOLDERABILITY: 95% minimum coverage. Per MIL-STD-202, Method 208, except without steam aging, Type RMA Flux (for 10 AWG & smaller only) SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum) VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz, 5 minutes WICKING: 2.25 in. (maximum) PART NUMBER: The "\*" in the part numbers on page 1 shall be replaced by color code designators. 1/ Example: AWG 18, white: 44A0811-18-9 AWG 14, white with a black stripe: 44A0811-14-90

1/ See Footer section on page 1.

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: 81044/9-20-9