

TABLE I. CONSTRUCTION DETAILS												
			DIAME		F	INISHED WIRE						
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	STRA CONDU	TER OF NDED JCTOR ו.)	MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (Ibs/1000 ft.)					
			MINIMUM	MAXIMUM	(ohms/1000 ft)							
44A0111-26-*	26	19 x 38	.018	.021	41.3	.034 ±.002	1.4					
44A0111-24-*	24	19 x 36	.023	.026	26.2	.040 ± .002	2.0					
44A0111-22-*	22	19 x 34	.029	.033	16.2	.047 ±.002	3.0					
44A0111-20-*	20	19 x 32	.037	.041	9.88	.055 ±.002	4.5					
44A0111-18-*	18	19 x 30	.046	.051	6.23	.065 ±.002	6.8					
44A0111-16-*	16	19 x 29	.052	.058	4.81	.072 ±.003	8.6					
44A0111-14-*	14	19 x 27	.065	.073	3.06	.089 ±.004	13.2					
44A0111-12-*	12	37 x 28	.084	.090	2.02	.108 ±.004	20.2					
44A0111-10-*	10	37 x 26	.106	.114	1.26	.129 ± .004	31.1					

	TA	BLE II. PERFORM	IANCE DETAILS						
PART NUMBER 1/	BEND TESTING								
		REL DIAMETER ch) (± 3%)	WEIGHT (Ib) (± 3%)						
	IMMERSION, LIFECYCLEAND ACCELERATEDAGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
44A0111-26-*	.500	.500	.250	.250	.500				
44A0111-24-*	.500	.500	.250	.375	.500				
44A0111-22-*	.750	.750	.250	.375	1.00				
44A0111-20-*	.750	.750	.250	.375	1.00				
44A0111-18-*	1.00	1.00	.375	.500	1.00				
44A0111-16-*	1.00	1.00	.375	.500	1.00				
44A0111-14-*	1.50	1.50	.500	1.00	3.00				
44A0111-12-*	2.00	2.00	.500	1.00	3.00				
44A0111-10-*	2.50	2.50	.500	1.00	3.00				

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

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## 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 in. (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, Tensile Strength, 2500 lbf/in<sup>2</sup> (minimum) Elongation, 150% (minimum) **INSULATION FLAWS:** Primary Insulation, Spark test, 1.5 kV (rms), at 60 Hz High Frequency Spark Test: 4.2 kV (rms) at 3.0 kHz Impulse Dielectric test, 6.0 kV (peak) Finished Wire. High Frequency Spark Test: 5.7 kV (rms) at 3.0 kHz Impulse Dielectric test, 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 in. SMOKE TEST: 200 ± 2°C. No visible smoke SOLDERABILITY (95% minimum coverage): per MIL-STD-202, Method 208, except without steam-aging, Type RMA Flux SURFACE RESISTANCE: 500 Megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum) VOLTAGE WITHSTAND TEST (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 a color code designator. 1/ Example: AWG 20, white: 44A0111-20-9

1/See Footer section on page 1

## **Mouser Electronics**

Authorized Distributor

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

TE Connectivity: <u>44A0111-18-9-US</u> <u>44A0111-18-9-MX</u>