

TABLE I. CONSTRUCTION DETAILS											
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE						
PART NUMBER 1/					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	ANCE DETAILS						
		BEND TESTING								
PA	PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (Ib) (± 3%)					
		IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
44	1A0111-26-* 🛓	.500	.500	.250	.250	.500				
44	A0111-24-*	.500	.500	.250	.375	.500				
44	A0111-22-*	.750	.750	.250	.375	1.00				
44	1A0111- <u>20</u> -*	.750	.750	.250	.375	1.00				
44	4A0111-18-*	1.00	1.00	.375	.500	1.00				
44	1A0111-16-*	1.00	1.00	.375	.500	1.00				
44	4A0111-14-*	1.50	1.50	.500	1.00	3.00				
44	1A0111-12-*	2.00	2.00	.500	1.00	3.00				
44	1A0111-10-*	2.50	2.50	.500	1.00	3.00				
Tyco Electronic		d evaluate the suitability of this ight to make changes in mater								
SUFFIX	RS AND COLOR CODE I IES MAY BE ADDED TO ED BY THE PURCHASE		<b>Raychem</b> Wire & Cable 01 Oakside Avenue							
	DIMENSI	ONS ARE IN INCHES, AND UNLES		Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297						
Page 1 of 2	2 THIS SPECI	FICATION SHEET TAKES PRECED	REIN. Electronics							

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

**tyco** Electronics

## 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:  $-65 \pm 2^{\circ}$ 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