

TABLE I. CONSTRUCTION DETAILS								
			DIAMETER OF STRANDED CONDUCTOR ) (in.)		FINISHED WIRE			
PART NUMBER	WIRE SIZE	CONDUCTOR STRANDING			MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT	
<u>1</u> /	(AWG)	(number x AWG)						
			MINIMUM	MAXIMUM	(ohms/1000 ft)	· · ·	(lb/1000 ft)	
44A0112-26-*	26	19 x 38	.018	.020	38.4	.034 ± .002	1.4	
44A0112-24-*	24	19 x 36	.023	.025	24.3	.040 ± .002	2.1	
44A0112-22-*	22	19 x 34	.029	.032	15.1	.047 ± .002	3.1	
44A0112-20-*	20	19 x 32	.037	.040	9.19	.055 ± .002	4.6	
44A0112-18-*	18	19 x 30	.046	.050	5.79	.065 ± .002	7.0	
44A0112-16-*	16	19 x 29	.052	.057	4.52	.072 ± .003	8.9	
44A0112-14-*	14	19 x 27	.065	.072	2.88	.089 ± .004	13.9	
44A0112-12-*	12	37 x 28	.084	.089	1.90	.108 ± .004	21.7	

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER <u>1</u> /	MANDRE	L DIAMETER	WEIGHT				
	(inch	) (± 3%)	(lb) (± 3%)				
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND		
44A0112-26-*	.500	.500	.250	.250	.500		
44A0112-24-*	.500	.500	.250	.375	.500		
44A0112-22-*	.750	.750	.250	.375	1.00		
44A0112-20-*	.750	.750	.250	.375	1.00		
44A0112-18-*	1.00	1.00	.375	.500	1.00		
44A0112-16-*	1.00	1.00	.375	.500	1.00		
44A0112-14-*	1.50	1.50	.500	1.00	3.00		
44A0112-12-*	2.00	2.00	.500	1.00	3.00		

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.
Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

SUFFIXES MAY	OLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND BE ADDED TO THE PART NUMBER. AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS HE PURCHASE ORDER.	tuco	Raychem Wire & Cable 501 Oakside Avenue
	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL.	Electronics	Redwood City, CA 94063-3800 Phone: 1-800-227-8816
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.	Liectionics	Fax: 1-650-361-6297



WIRE RATINGS AND ADDITIONAL REQUIREMENTS
TEMPERATURE RATING: 150°C, Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: $300 \pm 2^{\circ}$ C for 6 hours Identification legibility, $225 \pm 2^{\circ}$ C for 6 hours BLOCKING: $150 \pm 2^{\circ}$ 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,
Elongation, 150% (minimum) Tensile Strength, 2500 lbf/in <sup>2</sup> (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
INSULATION RESISTANCE: 5000 Megohms for 1000 ft. (minimum) LIFE CYCLE: 200 $\pm$ 2°C for 168 hours LOW TEMPERATURE-COLD BEND: -65 $\pm$ 2°C for 4 hours SHRINKAGE: 300 $\pm$ 2°C, 0.125 in. (maximum) in 12 in. SMOKE TEST: 200 $\pm$ 2°C. No visible smoke SURFACE RESISTANCE: 500 Megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 $\pm$ 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. <u>1</u> / Example: AWG 20, white: 44A0112-20-9 AWG 20, white with a black stripe: 44A0112-20-90

1/ See Footer section on page 1