

			TABLE I. CON	STRUCTION D	ETAILS		
			DIAME		FINISHED WIRE		
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	STRANDED CONDUCTOR (in.)		MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT
			MINIMUM	MAXIMUM	(ohms/1000 ft)	. ,	(lbs/1000 ft.)
44A0311-26-*	26	19 x 38	.018	.020	41.3	.053 ± .002	2.1
44A0311-24-*	24	19 x 36	.023	.025	26.2	.057 ± .002	3.0
44A0311-22-*	22	19 x 34	.029	.033	16.2	.069 ± .003	4.3
44A0311-20-*	20	19 x 32	.037	.041	9.88	.078 ± .003	6.1
44A0311-18-*	18	19 x 30	.046	.051	6.23	.088 ± .003	8.7
44A0311-16-*	16	19 x 29	.052	.058	4.81	.097 ± .004	10.9
44A0311-14-*	14	19 x 27	.065	.073	3.06	.115 ± .004	16.2
44A0311-12-*	12	37 x 28	.084	.090	2.02	.131 ± .004	24.2
44A0311-10-*	10	37 x 26	.106	.114	1.26	.161 ± .005	36.5
44A0311-8-*	8	133 x 29	.158	.173	.701	.219 ± .006	65.0
44A0311-6-*	6	133 x 27	.198	.217	.445	.269 ± .007	103.
44A0311-4-*	4	133 x 25	.250	.274	.280	.325 ± .008	158.
44A0311 2-*	2	665 x 30	.320	.340	.183	.404 ± .012	252.
44A0311-0-*	0	1045 x 30	.405	.425	.116	.494 ± .016	380.
44A0311-00-*	00	1330 x 30	.450	.475	.092	.545 ± .016	459.

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.					
	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.				
Page 1 of 3	The TE logo, Tyco Electronics and Raychem are trademarks.		Raychem Wire & Cable		
	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL	₹тусо	501 Oakside Avenue Redwood City, CA 94063-3800		
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		TABLE	II. PERFORMANC	E DETAILS			
			BEND TESTING	ì			
PART NUMBER <u>1</u> /		REL DIAMETER ch) (± 3%)		WEIGHT (lb.) (± 3%)			
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	LIFE CYCLE	IMMERSION AND ACCELERATED AGING	COLD BENI	
44A0311-26-*	.500	1.00	.250	0.500	0.625	3.00	
44A0311-24-*	.500	1.00	.250	0.500	0.625	3.00	
44A0311-22-*	.750	1.00	.250	1.00	2.00	3.00	
44A0311-20-*	.750	1.00	.250	1.25	2.50	4.00	
44A0311-18-*	1.00	1.50	.375	1.50	2.50	4.00	
44A0311-16-*	1.00	1.50	.375	1.50	2.50	5.00	
44A0311-14-*	1.50	2.00	.500	2.00	2.50	5.00	
44A0311-12-*	2.00	2.00	.500	2.00	3.00	5.00	
44A0311-10-*	3.00	3.00	.750	3.00	3.00	5.00	
44A0311-8-*	3.00	4.00	.750	6.00	6.00	6.00	
44A0311-6-*	4.00	5.00	1.00	6.00	6.00	10.0	
44A0311-4-*	5.00	6.00	1.25	6.00	6.00	10.0	
44A0311-2-*	6.00	8.00	3.00	6.00	6.00	15.0	
44A0311-0-*	8.00	10.0	4.00	7.00	7.00	15.0	
44A0311-00-*	9.00	12.0	5.00	7.00	7.00	15.0	

Revision

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## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C** Maximum continuous conductor temperature VOLTAGE RATING: 2500 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 AND COLOR STRIPING DURABILITY:** 125 cycles (250 strokes) (minimum), 500 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown. INSULATION ELONGATION AND TENSILE STRENGTH: 1.5 inch jaw separation, 2.0 inch/minute crosshead speed 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 10-00 INSULATION FLAWS: Primary Insulation, Spark Test, 5.0 kV (rms) Impulse Dielectric Test, 6.0 kV (peak) Finished Wire, Spark Test, 8.0 kV (rms) at 3 kHz Impulse Dielectric Test, 13.0 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., AWG 26-12 300 ± 2°C, 0.250 in. (maximum) in 12 in., AWG 10-00 SMOKE: 200 ± 2°C. No visible smoke. SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum) VOLTAGE WITHSTAND (Post Environmental): 5000 volts (rms), 60 Hz, 5 minutes WICKING: 2.25 in. (maximum)

PART NUMBER: The "\*" in the part numbers on pages 1 and 2 shall be replaced by color code designators.

<u>1</u>/ Example: AWG 20, white: 44A0311-20-9

AWG 20, white with black stripe: 44A0311-20-90

1/ See footer section on page 1