



	TABLE I. CONSTRUCTION DETAILS							
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
PART NUMBER					MAXIMUM RESISTANCE AT 20℃	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.	

	TE	Users should evaluate the suitability of this product for their application. Specifications are subjec Connectivity also reserves the right to make changes in materials or processing, which do not affect compliance wi		notification to Buyer.		
	1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TE Connectivity TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.					
		The TE logo, TE Connectivity and Raychem are trademarks.		TE Connectivity Wire & Cable		
	Page 1 of 3	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL	<b>E</b> TE	501 Oakside Avenue Redwood City, CA 94063-3800		
Tage Toro	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	TE Connectivity	Phone: 1-800-227-8816 Fax: 1-650-361-6297			



TABLE II. PERFORMANCE DETAILS								
PART NUMBER 1/	BEND TESTING							
	1AM	NDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)					
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND			
44A0311-26-*	.500	1.00	.250	.625	3.00			
44A0311-24-*	.500	1.00	.250	.625	3.00			
44A0311-22-*	.750	1.00	.250	2.00	3.00			
44A0311-20-*	.750	1.00	.250	2.50	4.00			
44A0311-18-*	1.00	1.50	.375	2.50	4.00			
44A0311-16-*	1.00	1.50	.375	2.50	5.00			
44A0311-14-*	1.50	2.00	.500	2.50	5.00			
44A0311-12-*	2.00	2.00	.500	3.00	5.00			
44A0311-10-*	3.00	3.00	.750	3.00	5.00			
44A0311-8-*	3.00	4.00	.750	6.00	6.00			
44A0311-6-*	4.00	5.00	1.00	6.00	10.0			
44A0311-4-*	5.00	6.00	1.25	6.00	10.0			
44A0311-2-*	6.00	8.00	3.00	6.00	15.0			
44A0311-0-*	8.00	10.0	4.00	7.00	15.0			
44A0311-00-*	9.00	12.0	5.00	7.00	15.0			



Revision

L1

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150℃ Maximum continuous conductor temperature VOLTAGE RATING: 2500 volts (rms) at sea level ACCELERATED AGING: 300 ± 2℃ 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℃ 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℃. 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