## SPECIFICATION CONTROL DRAWING

44A111X

TITLE ONE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT

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This specification sheet forms a part of the latest issue of Raychem Specification 44.



Date

4-1-11

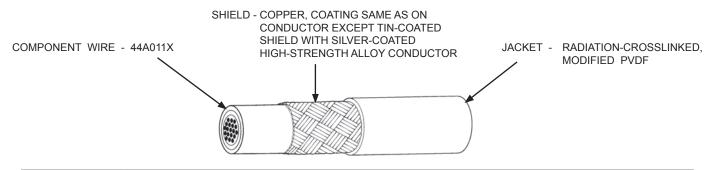


TABLE I. CABLE CONSTRUCTION DETAILS									
PART NUMBER <u>1</u> /	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT		
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	(lbs/1000 ft.)		
44A111X-26-*	26	38	.005	.007	.065	.070	4.6		
44A111X-24-*	24	38	.005	.007	.072	.077	5.8		
44A111X-22-*	22	38	.005	.007	.079	.084	7.2		
44A111X-20-*	20	38	.006	.008	.089	.094	9.9		
44A111X-18-*	18	36	.006	.008	.103	.108	13.9		
44A111X-16-*	16	36	.006	.008	.110	.115	16.5		
44A111X-14-*	14	36	.006	.008	.127	.132	22.9		
44A111X-12-*	12	36	.006	.008	.146	.151	32.1		
44A111X-10-*	10	36	.006	.008	.166	.179	44.3		

TABLE II. CABLE PERFORMANCE DETAILS								
PART NUMBER <u>1</u> /	BEND TESTING							
	MANDREL DIAMETE (inch) (±3%)	ER	WEIGHT (lb) (±3%)					
	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND				
44A111X-26-*	3.00	3.00	.125	.750				
44A111X-24-*	3.00	3.00	.188	.750				
44A111X-22-*	3.00	3.00	.188	1.50				
44A111X-20-*	3.00	3.00	.188	1.50				
44A111X-18-*	3.00	3.00	.250	1.50				
44A111X-16-*	3.00	3.00	.250	1.50				
44A111X-14-*	6.00	6.00	.500	4.50				
44A111X-12-*	6.00	6.00	.500	4.50				
44A111X-10-*	6.00	6.00	.500	4.50				

NOTE: Nominal values are for information only. Nominal values are not requirements.

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## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C** Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: 300 ± 3°C for 6 hours BLOCKING: 150 ± 3°C for 6 hours DIELECTRIC WITHSTAND: 2500 volts (rms), 60 Hz, 1 minute FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue IMMERSION: Diameter increase 5% (maximum), no cracking, no dielectric breakdown JACKET COLOR: White preferred JACKET CONCENTRICITY: 70% (minimum) JACKET ELONGATION AND TENSILE STRENGTH: Elongation, 200% (minimum) Tensile Strength, 4000 lbf/in<sup>2</sup> (minimum) JACKET FLAWS: Spark Test, 1.5 kV (rms) Impulse Dielectric Test, 6.0 kV (peak) LIFE CYCLE: 200 ± 3°C for 168 hours LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours SHIELD COVERAGE: 85% (minimum) VOLTAGE WITHSTAND (Post Environmental): 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designator as follows:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high-strength copper alloy (AWG's 26 16 only)
- 6 nickel-coated high-strength copper alloy (AWG's 26 20 only)

The "\*" in the part numbers on page 1 shall be replaced by color code designators with a dash separating the component wire color from the jacket color.

1/ Example: AWG 20, tin-coated copper wire, white component wire; white jacket:

44A1111-20-9-9

1/ See footer section on page 1