SPECIFICATION CONTROL DRAWING		44A0114			
WIRE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	12-11-09	E			
This specification sheet forms a part of the latest issue of Raychem Specification 44.					

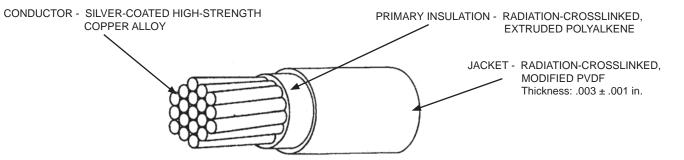


TABLE I. CONSTRUCTION DETAILS							
			DIAMETER OF		FINISHED WIRE		
PART NUMBER <u>1</u> /	SIZE I STRANDING I CONDUCTOR	JCTOR	MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT		
			MINIMUM	MAXIMUM	(ohms/1000 ft)	()	(lbs/1000 ft.)
44A0114-26-*	26	19 x 38	.018	.020	44.8	.034 ± .002	1.4
44A0114-24-*	24	19 x 36	.023	.025	28.4	.040 ± .002	2.1
44A0114-22-*	22	19 x 34	.029	.032	17.5	.047 ± .002	3.1
44A0114-20-*	20	19 x 32	.037	.040	10.7	.055 ± .002	4.6
44A0114-18-*	18	19 x 30	.046	.050	6.8	.065 ± .002	7.0
44A0114-16-*	16	19 x 29	.052	.057	5.3	.072 ± .003	8.9

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)		
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	
44A0114-26-*	.500	.500	.250	.250	.500	
44A0114-24-*	.500	.500	.250	.375	.500	
44A0114-22-*	.750	.750	.250	.375	1.00	
44A0114-20-*	.750	.750	.250	.375	1.00	
44A0114-18-*	1.00	1.00	.375	.500	1.00	
44A0114-16-*	1.00	1.00	.375	.500	1.00	

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.				
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.				
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Page 1 of 2	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.	₹тусо		
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	Electronics		

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Revision

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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 AND 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/in² (minimum) **INSULATION FLAWS:** Primary Insulation, Spark Test, 4.2 kV (rms) at 3.0 kHz Impulse Dielectric Test, 6.0 kV (peak) Finished Wire, Spark Test, 5.7 kV (rms) at 3 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 ± 2°C for 4 hours SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 inches SMOKE: 200 \pm 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): 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: 44A0114-20-9 AWG 20, white with black stripe: 44A0114-20-90

1/ See footer section on page 1