SPECIFICATION CONTROL DRAWING

55A8000

WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, THERMOCOUPLE EXTENSION. NORMAL WEIGHT

9-21-12

Date

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55A.

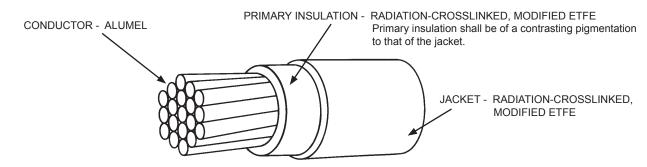


TABLE I. CONSTRUCTION DETAILS									
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE				
					DIAMETER	MAXIMUM WEIGHT			
			NOMINAL	MAXIMUM	(in.)	(lbs/1000 ft.)			
55A8000-30-*	30	7 x 38	.012		.032 ± .002	.97			
55A8000-26-*	26	7 x 34	.019		.040 ± .002	1.7			
55A8000-24-*	24	19 x 36		.026	.045 ± .002	2.4			
55A8000-22-*	22	19 x 34		.033	.051 ± .003	3.4			
55A8000-20-*	20	19 x 32		.041	.059 ± .003	5.0			
55A8000-18-*	18	19 x 30		.051	.070 ± .003	7.3			
55A8000-16-*	16	19 x 29		.058	.078 ± .004	9.4			

TABLE II. PERFORMANCE DETAILS								
PART NUMBER 1/	BEND TESTING							
	MANDREL DIAM (inch) (± 3%		WEIGHT (lb) (± 3%)					
	ACCELERATED AGING	COLD BEND	ACCELERATED AGING	COLD BEND				
55A8000-30-*	.375	1.00	.250	2.00				
55A8000-26-*	.500	1.00	.750	3.00				
55A8000-24-*	.500	1.00	.750	3.00				
55A8000-22-*	.500	1.00	1.00	3.00				
55A8000-20-*	.500	1.00	1.50	4.00				
55A8000-18-*	.750	1.50	2.00	4.00				
55A8000-16-*	1.00	1.50	2.00	5.00				

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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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DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID



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Revision L SCD Number

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours

CONCENTRICITY: 70% (minimum)

FLAMMABILITY (Qualification Test): Procedure 1, 3 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

IDENTIFICATION AND COLOR STRIPING DURABILITY (AWG 24 - 16 only):

125 cycles (250 strokes) (minimum), 500 g weight

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in2 (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 1.5 kV (rms)

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)

INSULATION THICKNESS: 0.008 in. (minimum), total both layers

LOW TEMPERATURE-COLD BEND (Qualification Test): -65 ± 2°C for 4 hours

SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 in.

VOLTAGE WITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz

WICKING: 2.25 in. (maximum)

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by one of the color code designators shown below. 1/ Example: AWG 24,

Per MIL-STD-687: green, 55A8000-24-5 Per ANSI MC96.1: red, 55A8000-24-2

Per British Standard Code BS: blue, 55A8000-24-6

Per International Standard IEC 584-3: white, 55A8000-24-9

EMF with known standard CHROMEL shall be 4.00 mV (minimum), 4.19 mV (maximum), at 100°C with reference junction corrected to 0°C per ANSI MC96.1.

1/ See footer section on page 1