SPECIFICATION CONTROL DRAWING

55A0113

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED, NICKEL-COATED COPPER, LIGHTWEIGHT

Date 10-26-04

Q

Revision

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

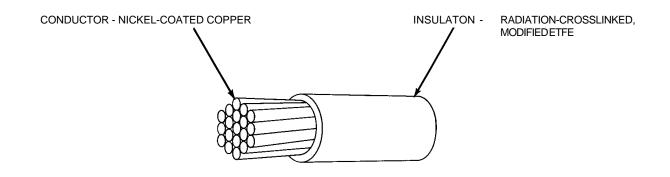


TABLE I. CONSTRUCTION DETAILS										
	DIAM		DIAME	TEROF		FINISHED WIRE				
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	STRANDED CONDUCTOR (in.)		MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT			
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(MINIMUM	MAXIMUM	(ohms/1000 ft.)		(lbs/1000 ft.)			
55A0113-30-*	30	7 x 38	.011	.013	110.7	.024 ± .002	.66			
55A0113-28-*	28	7 x 36	.014	.016	67.9	.027 ± .002	.91			
55A0113-26-*	26	19 x 38	.018	.020	42.2	.032 ± .002	1.4			
55A0113-24-*	24	19 x 36	.023	.025	25.9	.037 ± .002	2.0			
55A0113-22-*	22	19 x 34	.029	.031	16.0	.043 ± .002	2.8			
55A0113-20-*	20	19 x 32	.037	.039	9.77	.050 ± .002	4.3			
55A0113-18-*	18	19 x 30	.046	.049	6.10	.060 ± .002	6.5			
55A0113-16-*	16	19 x 29	.052	.055	4.76	.068 ± .002	8.3			
55A0113-14-*	14	19 x 27	.065	.069	3.00	.085 ± .003	13.0			
55A0113-12-*	12	37 x 28	.084	.089	1.98	.103 ± .003	19.7			
55A0113-10-*	10	37 x 26	.106	.113	1.24	.128 ± .006	32.2			
55A0113- 8-*	8	133 x 29	.158	.173	.694	.188 ± .008	56.5			

TABLE II. PERFORMANCE DETAILS								
	BENDTESTING							
PART NUMBER	MANDREL D (inch) (:		WEIGHT (lb) (± 3%)					
1/ 1/	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
55A0113-30-*	.250	.375	.125	.500				
55A0113-28-*	.250	.375	.125	.500				
55A0113-26-*	.375	.500	.125	.500				
55A0113-24-*	.375	.500	.250	1.00				
55A0113-22-*	.500	.750	.375	1.00				
55A0113-20-*	.500	.750	.500	1.00				
55A0113-18-*	.500	1.00	.500	1.00				
55A0113-16-*	.750	1.00	.750	1.00				
55A0113-14-*	1.00	1.50	1.00	3.00				
55A0113-12-*	1.50	2.00	1.50	3.00				
55A0113-10-*	2.00	3.00	1.50	3.00				
55A0113- 8-*	3.00	4.00	4.00	6.00				

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.

Electronics

ychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297

^{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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Revision **Q**

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C,

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

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

BLOCKING: 230 ± 3°C for 24 hours

COLOR: white preferred

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum) for AWG 30 - 10 3000 megohms for 1000 ft. (minimum) for AWG 8

IDENTIFICATION, COLOR 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:

Elongation, 75% (minimum)

Tensile strength, 5000 lbf/in² (minimum)

INSULATION FLAWS:

Spark test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE:

5000 megohms for 1000 ft. (minimum) for AWG 30 - 10 3000 megohms for 1000 ft. (minimum) for AWG 8 INSULATION THICKNESS: 0.005 in. (minimum)

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours

SHRINKAGE: $230 \pm 3^{\circ}$ C, for 6 hours, 0.125 in. (maximum) in 12 in.

SMOKE TEST: 250 ± 5°C. No visible smoke

SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum)

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

WRAP TEST: 313 ± 3°C for 2 hours

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by a color code designator.

1/Example: AWG 22, white: 55A0113-22-9

AWG 22, white with black stripe: 55A0113-22-90

1/ See footer section on page 1

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