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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION CONTROL DRAWING

55A0111

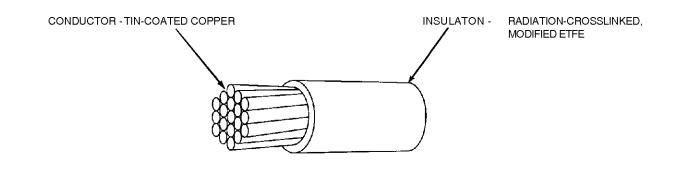
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TITLE

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

Date 24MAR11 R

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



TABLEI. CONSTRUCTION DETAILS									
			DIAME	TEROF	FINISHED WIRE				
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)			MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)		
	, ,		MINIMUM	MAXIMUM	(ohms/1000 ft.)		(1.2.2.1.000 1.1.)		
55A0111-30-*	30	7 x 38	.011	.013	108.4	.024 ± .002	.66		
55A0111-28-*	28	7 x 36	.014	.016	68.6	.027 ± .002	.91		
55A0111-26-*	26	19 x 38	.018	.020	41.3	.032 ± .002	1.4		
55A0111-24-*	24	19 x 36	.023	.025	26.2	.037 ± .002	2.0		
55A0111-22-*	22	19 x 34	.029	.031	16.2	.043 ± .002	2.8		
55A0111-20-*	20	19 x 32	.037	.039	9.88	.050 ± .002	4.3		
55A0111-18-*	18	19 x 30	.046	.049	6.23	.060 ± .002	6.5		
55A0111-16-*	16	19 x 29	.052	.055	4.81	.068 ± .002	8.3		
55A0111-14-*	14	19 x 27	.065	.069	3.06	.085 ± .003	13.0		
55A0111-12-*	12	37 x 28	.084	.089	2.02	.103 ± .003	19.7		
55A0111-10-*	10	37 x 26	.106	.113	1.26	.128 ± .006	31.8		
55A0111- 8-*	8	133 x 29	.158	.173	.701	.188 ± .008	58.8		

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER <u>1</u> /	MANDREL E (inch) (WEIGHT (lb) (± 3%)				
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND			
55A0111-30-*	.250	.375	.125	.500			
55A0111-28-*	.250	.375	.125	.500			
55A0111-26-*	.375	.500	.125	.500			
55A0111-24-*	.375	.500	.250	1.00			
55A0111-22-*	.500	.750	.375	1.00			
55A0111-20-*	.500	.750	.500	1.00			
55A0111-18-*	.500	1.00	.500	1.00			
55A0111-16-*	.750	1.00	.750	1.00			
55A0111-14-*	1.00	1.50	1.00	3.00			
55A0111-12-*	1.50	2.00	1.50	3.00			
55A0111-10-*	2.00	3.00	1.50	3.00			
55A0111- 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.

TE Connectivity 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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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

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TEMPERATURE RATING: 150°C,

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

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

BLOCKING: 200 ± 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 DielectricTest, 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: 200 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3 °C for 4 hours SHRINKAGE: 200 ± 3 °C, for 6 hours, 0.125 in. (maximum) in 12 in. SOLDERABILITY: Per MIL-STD-202, Method 208, without steam aging

N/A for AWG 10 and 8

SMOKE TEST: 200 ± 2°C. No visible smoke

SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 3 °C, 0.060 in. (maximum)

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

WRAP TEST: 200 ± 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: 55A0111-22-9

AWG 22, white with black stripe: 55A0111-22-90