## **SPECIFICATION CONTROL DRAWING**

55A7113

WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED,
NORMAL WEIGHT. 600 VOLT

Date 6-10-11

Revision

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

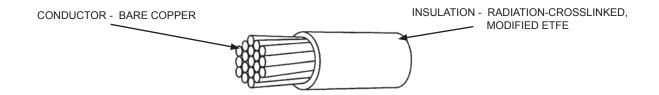


TABLE I. CONSTRUCTION DETAILS							
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
PART NUMBER 1/					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT
			MINIMUM	MAXIMUM	(ohms/1000 ft)	` ''/	(lbs/1000 ft.)
55A7113-22-*	22	7 x 30	.029	.030	16.0	.050 ± .003	3.2
55A7113-20-*	20	7 x 28	.037	.038	10.0	.058 ± .003	4.8
55A7113-18-*	18	19 x 30	.045	.048	6.58	.066 ± .003	6.7
55A7113-16-*	16	19 x 29	.052	.057	4.61	.075 ± .003	9.3
55A7113-14-*	14	19 x 27	.071	.075	2.96	.092 ± .003	14.5
55A7113-12-*	12	37 x 28	.088	.092	1.73	.110 ± .003	23.7
55A7113-10-*	10	37 x 25	.111	.115	1.15	.133 ± .004	36.5

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
	CROSSLINK VERIFICATION	CROSSLINK VERIFICATION				
55A7113-22-*	.500	2.00				
55A7113-20-*	.500	3.00				
55A7113-18-*	.750	4.00				
55A7113-16-*	1.00	4.00				
55A7113-14-*	1.00	6.00				
55A7113-12-*	1.50	6.00				
55A7113-10-*	2.00	6.00				

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics Corporation 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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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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## SPECIFICATION CONTROL DRAWING

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## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C at 3000 hours (minimum)

VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

**INSULATION FLAWS:** 

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: .008 in. (minimum), .010 in. (nominal) SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in. (maximum) in 12 inches VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms)

## PART NUMBER:

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

1/ Example: AWG 16, white, 55A7113-16-9

AWG 16, white with a black stripe: 55A7113-16-90

1/ See footer section on page 1