## **SPECIFICATION CONTROL DRAWING**

55/0112

WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, OUTER SPACE, 600 VOLT

Date 4-30-13

Revision

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

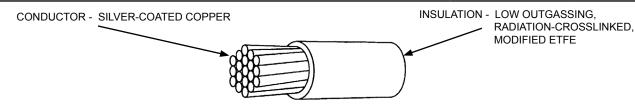


TABLE I. CONSTRUCTION DETAILS								
PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT	
			MINIMUM	MAXIMUM	(ohms/1000 ft)	`´	(lbs/1000 ft.)	
55/0112-30-*	30	7 x 38	.011	.012	100.7	.024 ± .002	.66	
55/0112-28-*	28	7 x 36	.014	.015	63.8	.027 ± .002	.91	
55/0112-26-*	26	19 x 38	.018	.019	38.4	.032 ± .002	1.4	
55/0112-24-*	24	19 x 36	.023	.025	24.3	.037 ± .002	2.0	
55/0112-22-*	22	19 x 34	.029	.030	15.1	.043 ± .002	2.8	
55/0112-20-*	20	19 x 32	.037	.039	9.19	.050 ± .002	4.3	
55/0112-18-*	18	19 x 30	.046	.048	5.79	.060 ± .002	6.5	
55/0112-16-*	16	19 x 29	.052	.054	4.52	.068 ± .002	8.3	
55/0112-14-*	14	19 x 27	.065	.068	2.88	.085 ± .003	13.0	
55/0112-12-*	12	37 x 28	.084	.087	1.90	.103 ± .003	19.7	
55/0112-10-*	10	37 x 26	.106	.112	1.19	.128 ± .006	32.3	
55/0112-8-*	8	133 x 29	.158	.169	.658	.188 ± .008	60.5	

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
	CROSSLINKED VERIFICATION	CROSSLINKED VERIFICATION				
55/0112-30-*	.250	.125				
55/0112-28-*	.250	.125				
55/0112-26-*	.375	.125				
55/0112-24-*	.375	.250				
55/0112-22-*	.500	.375				
55/0112-20-*	.500	.500				
55/0112-18-*	.500	.500				
55/0112-16-*	.750	.750				
55/0112-14-*	1.00	1.00				
55/0112-12-*	1.50	1.50				
55/0112-10-*	2.00	1.50				
55/0112-8-*	3.00	4.00				

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.

Page 1 of 2 DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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

55/0112

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

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

COLOR: White preferred

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

INSULATION ELONGATION; 50% (minimum)

**INSULATION FLAWS:** Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: 0.005 in. (minimum)

RADIATION RESISTANCE: 500 megarads

SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in. (maximum) in 12 inches

VACUUM STABILITY:

Total Mass Loss (TML), 1.00% (maximum)

Volatile Condensable Material, 0.10% (maximum)

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz, 5 minutes

## PART NUMBER:

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

1/ Example: AWG 22, White: 55/0112-22-9

AWG 22, White with black stripe: 55/0112-22-90

1/ See footer section on page 1