## SPECIFICATION CONTROL DRAWING

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

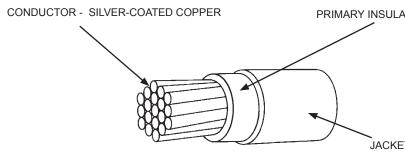
Date

Revision 5-9-11

G

55/0812

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



PRIMARY INSULATION - RADIATION-CROSSLINKED. MODIFIED ETFE Primary insulation shall be of a contrasting pigmentation to that of the jacket.

> JACKET - LOW OUTGASSING, RADIATION-CROSSLINKED, MODIFIED ETFE

TABLE I. CONSTRUCTION DETAILS								
PART NUMBER 1/	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.)	
55/0812-28-*	28	7 x 36	.014	.015	63.8	.035 ± .002	1.2	
55/0812-26-*	26	19 x 38	.018	.019	38.4	.040 ± .002	1.7	
55/0812-24-*	24	19 x 36	.023	.025	24.3	.045 ± .002	2.3	
55/0812-22-*	22	19 x 34	.029	.031	15.1	.050 ± .002	3.2	
55/0812-20-*	20	19 x 32	.037	.039	9.19	.058 ± .002	4.7	
55/0812-18-*	18	19 x 30	.046	.048	5.79	.070 ± .003	7.2	
55/0812-16-*	16	19 x 29	.052	.054	4.52	.077 ± .003	9.0	
55/0812-14-*	14	19 x 27	.065	.068	2.88	.094 ± .003	13.8	
55/0812-12-*	12	37 x 28	.084	.087	1.90	.111 ± .003	20.5	
55/0812-10-*	10	37 x 26	.106	.112	1.19	.134 ± .004	32.4	
55/0812-8-*	8	133 x 29	.158	.169	.658	.195 ± .008	61.9	
55/0812-6-*	6	133 x 27	.198	.213	.418	.241 ± .010	94.5	

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.

TE Connectivity, TE connectivity (logo), TE (logo), and Raychem are trademarks.

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.



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

Page 1 of 2



## SPECIFICATION CONTROL DRAWING

Page 2 of 2

Revision G

SCD Number

55/0812

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)					
	CROSSLINKED VERIFICATION	CROSSLINKED VERIFICATION					
55/0812-28-*	.375	.250					
55/0812-26-*	.375	.500					
55/0812-24-*	.500	.750					
55/0812-22-*	.500	1.00					
55/0812-20-*	.500	1.50					
55/0812-18-*	.750	2.00					
55/0812-16-*	1.00	2.00					
55/0812-14-*	1.00	3.00					
55/0812-12-*	1.50	3.00					
55/0812-10-*	2.00	3.00					
55/0812-8-*	3.00	4,00					
55/0812-6-*	4.00	4.00					

## 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: Primary Insulation:

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: .009 in. (minimum) total insulation

RADIATION RESISTANCE: 500 megarads

SHRINKAGE:  $230 \pm 3^{\circ}$ C for 1 hour, 0.125 in. (maximum) in 12 inches

VACUUM STABILITY:

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

Volatile Condensable Material (VCM), 0.10% (maximum)

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

## PART NUMBER:

The "\*" in the part numbers on pages 1 and 2 shall be replaced by a color code designator.

1/ Example: AWG 22, white: 55/0812-22-9

AWG 22, white with a black stripe: 55/0812-22-90