

SPECIFICATION CONTROL DRAWING

55A0212

TITLE	WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, MEDIUM WEIGHT, GENERAL PURPOSE, 600 VOLT	Date	10-21-11	Revision	C
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This specification sheet forms a part of the latest issue of Raychem Specification 55A.

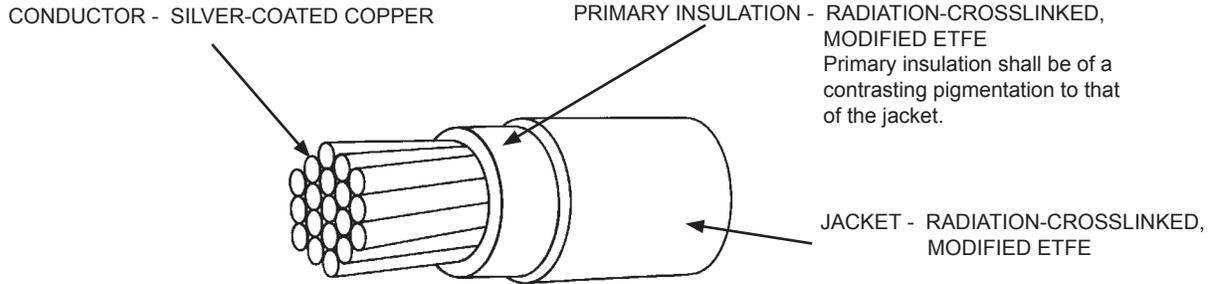


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
55A0212-26-*	26	19 x 38	.018	.019	38.4	.034 ± .002	1.5
55A0212-24-*	24	19 x 36	.023	.025	24.3	.039 ± .002	2.1
55A0212-22-*	22	19 x 34	.029	.031	15.1	.045 ± .002	3.1
55A0212-20-*	20	19 x 32	.037	.039	9.19	.053 ± .003	4.6
55A0212-18-*	18	19 x 30	.046	.048	5.79	.063 ± .003	7.0
55A0212-16-*	16	19 x 29	.052	.054	4.52	.071 ± .003	8.9
55A0212-14-*	14	19 x 27	.065	.068	2.88	.088 ± .004	13.7
55A0212-12-*	12	37 x 28	.084	.087	1.90	.106 ± .004	20.7
55A0212-10-*	10	37 x 26	.106	.112	1.19	.131 ± .006	32.5

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND
55A0212-26-*	.375	1.00	.125	1.50
55A0212-24-*	.375	1.00	.250	2.00
55A0212-22-*	.500	1.00	.375	2.00
55A0212-20-*	.500	1.00	.500	2.00
55A0212-18-*	.500	1.50	.500	2.00
55A0212-16-*	.750	1.50	.750	3.00
55A0212-14-*	1.00	2.00	1.00	4.00
55A0212-12-*	1.50	2.00	1.50	4.00
55A0212-10-*	2.00	3.00	1.50	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.

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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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**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 inches (maximum); no flaming of facial tissue**HUMIDITY RESISTANCE:** Insulation Resistance, 5000 megohms for 1000 ft. (minimum)**IDENTIFICATION AND COLOR STRIPING DURABILITY:** 125 cycles (250 strokes) (minimum), 500 g weight**IMMERSION:** Diameter increase 5% (maximum); no cracking, no dielectric breakdown**INSULATION ELONGATION AND TENSILE STRENGTH:**

Total Insulation (primary insulation and jacket)

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in² (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 RESISTANCE: 5000 megohms for 1000 ft. (minimum)**INSULATION THICKNESS:** 0.006 in. (minimum) for total insulation**LIFE CYCLE:** 230 ± 3°C for 500 hours**LOW TEMPERATURE-COLD BEND:** -65 ± 3°C for 4 hours**SHRINKAGE:** 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches**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) for AWG 26 - 12

0.100 in. (maximum) for AWG 10

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz**PART NUMBER:**

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

1/ Example: AWG 22, white; 55A0212-22-9

AWG 22, white with a black stripe; 55A0212-22-90

1/ See footer section on page 1