

SPECIFICATION CONTROL DRAWING

55A7308

TITLE WIRE, ELECTRIC, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED, SOLID SILVER-COATED HIGH STRENGTH COPPER ALLOY, SPECIAL

Date 2-16-96

Revision A

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

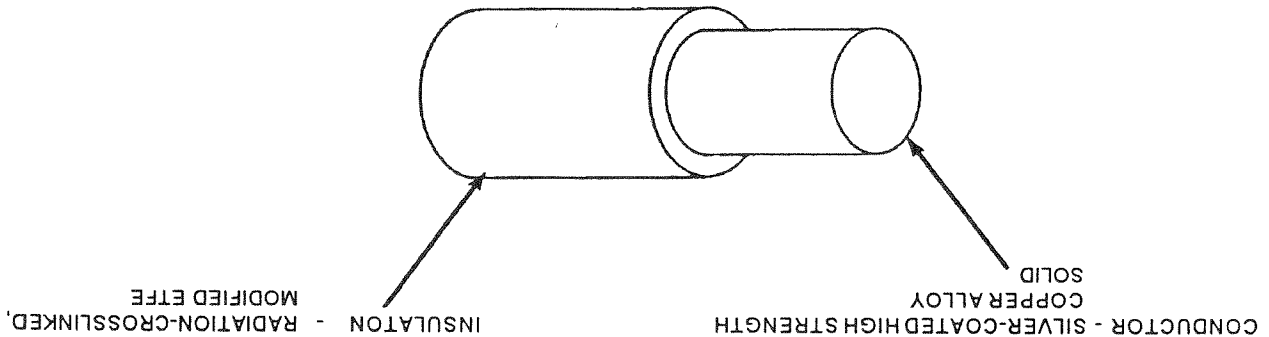


TABLE I. CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	NOMINAL CONDUCTOR DIAMETER (in.)	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)		NOMINAL WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	
55A7308-30*	30	.010	.126	.020	.53
55A7308-28*	28	.012	.79.6	.023	.75
55A7308-26*	26	.016	50.5	.028	1.2
55A7308-24*	24	.020	31.4	.033	1.7
55A7308-22*	22	.025	19.9	.036	2.4
55A7308-20*	20	.032	12.3	.043	3.7

TABLE II. PERFORMANCE DETAILS

PART NUMBER	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	BEND TESTING	
					MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)
55A7308-30*	.250	.375	.063	.375		
55A7308-28*	.250	.375	.063	.375		
55A7308-26*	.375	.500	.125	.375		
55A7308-24*	.375	.500	.125	.500		
55A7308-22*	.500	.750	.250	.500		
55A7308-20*	.500	.750	.250	.500		

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

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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Corporation

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C,
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 ACCELERATED AGING: 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 in. (maximum); no flaming of facial tissue
 Procedure 2, 3 seconds (maximum); 5 in. (maximum); AWG 30-22
 3 seconds (maximum); 3 in. (maximum); AWG 20
 HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)
 IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes)
 (minimum), 500 g weight (AWG 28 and 30 are not marked)
 INSULATION ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile strength, 5000 lbf/in² (minimum)
 INSULATION FLAWS:
 Spark Test, 3.0 kV (rms), 60 Hz
 Impulse Dielectric Test, 8.0 kV (peak)
 INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum)
 INSULATION THICKNESS: 0.005 in. (minimum)
 LIFE CYCLE: 230 ± 3°C for 500 hours
 LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours
 SHRINKAGE: 230 ± 3°C, 0.125 inch (maximum)
 SMOKE TEST: 250 ± 5°C, No visible smoke
 SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 1500 volts (rms)
 PART NUMBER:
 The "*" in the part numbers on page 1 shall be replaced by a color code designator.
 Example: AWG 22, white: 55A7308-22-9
 AWG 22, white with black stripe: 55A7308-22-90

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