

# SPECIFICATION CONTROL DRAWING

## 55A8015

TITLE WIRE, ELECTRIC, TIN-COATED CADMIUM COPPER,  
NORMAL WEIGHT, 600 VOLT

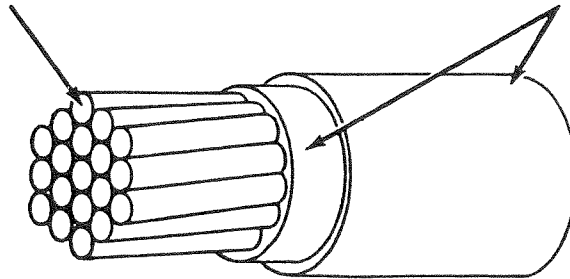
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This specification sheet forms a part of the latest issue of Raychem Specification 55A.

CONDUCTOR - TIN-COATED CADMIUM COPPER

INSULATION - RADIATION CROSSLINKED,  
MODIFIED ETFE



### CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	MAXIMUM DIAMETER OF STRANDED CONDUCTOR (in.)	FINISHED WIRE		
				MAXIMUM RESISTANCE AT 20°C (Ω/1000 ft)	DIAMETER (in.)	MAXIMUM WEIGHT (lb/1000 ft)
55A8015-26-*	26	19 x 38	.021	45.0	.040 ± .002	1.7
55A8015-24-*	24	19 x 36	.026	30.5	.045 ± .002	2.3
55A8015-23-*	23	21 x 36	.027	28.5	.046 ± .003	2.7
55A8015-22-*	22	19 x 34	.033	20.0	.051 ± .003	3.3
55A8015-20-*	20	19 x 32	.041	12.0	.059 ± .003	4.9

### PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (in.) (±3%)		WEIGHT (lb) (±3%)	
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND
55A8015-26-*	.375	1.00	.500	3.00
55A8015-24-*	.500	1.00	.750	3.00
55A8015-23-*	.500	1.00	.750	3.00
55A8015-22-*	.500	1.00	1.00	3.00
55A8015-20-*	.500	1.00	1.50	4.00

### ADDITIONAL REQUIREMENTS

**CONDUCTOR ELONGATION AND BREAKING STRENGTH:**

- Elongation, 1% (minimum)
- Jaw separation speed, 2 in. per minute
- Breaking Strength: 21.6 lb. (minimum), AWG 26
- 33.6 lb. (minimum), AWG 24
- 37.1 lb. (minimum), AWG 23
- 53.4 lb. (minimum), AWG 22
- 86.0 lb. (minimum), AWG 20

Except as specified above, this construction shall meet all requirements of Raychem Specification Sheet 55A0811.

The "\*" in the part numbers above shall be replaced by a color code designator in accordance with MIL-STD-681.

Example: AWG 24, white: 55A8015-24-9  
AWG 24, white with black stripe: 55A8015-24-90

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

## Raychem

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REVISIONS TO DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT AT DATE OF INVITATION FOR BID.

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