

SPECIFICATION CONTROL DRAWING

44A433X

TITLE THREE CONDUCTOR CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, JACKETED, LIGHTWEIGHT, GENERAL PURPOSE, 2500 VOLT

Date 5-16-91

Revision A

This specification sheet forms a part of the latest issue of Raychem Specification 44.

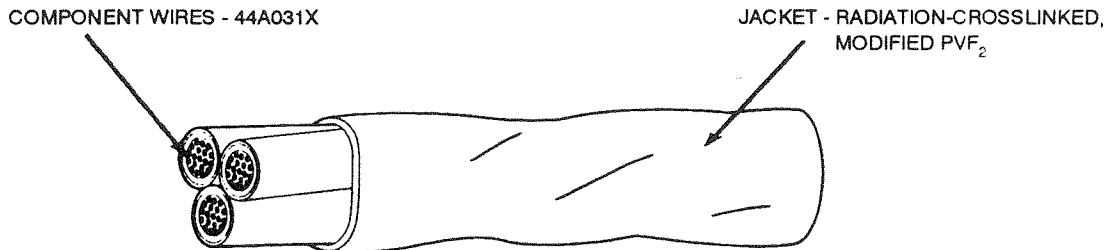


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A433X-24-*	24	.006	.008	.139	.145	12.2
44A433X-22-*	22	.006	.008	.165	.172	16.8
44A433X-20-*	20	.007	.009	.186	.193	23.4
44A433X-18-*	18	.007	.009	.208	.216	32.2
44A433X-16-*	16	.007	.009	.228	.236	39.6
44A433X-14-*	14	.007	.009	.266	.276	57.3
44A433X-12-*	12	.008	.010	.303	.318	84.3
44A433X-10-*	10	.008	.010	.368	.386	126.

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	ACCELERATED AGING, IMMERSION AND LIFE CYCLE	COLD BEND	ACCELERATED AGING, IMMERSION AND LIFE CYCLE	COLD BEND
44A433X-24-*	3.75	3.75	1.50	14.0
44A433X-22-*	4.50	4.50	4.50	14.0
44A433X-20-*	5.00	5.00	6.00	18.0
44A433X-18-*	5.50	5.50	6.00	18.0
44A433X-16-*	6.00	6.00	7.50	23.0
44A433X-14-*	7.00	7.00	7.50	23.0
44A433X-12-*	8.00	8.00	7.50	23.0
44A433X-10-*	10.0	10.0	7.50	23.0

NOTE: Nominal values are for information only.
Nominal values are not requirements.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 2500 volts (rms)

ACCELERATED AGING: 225 ± 2°C for 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 5000 volts (rms), 60 Hz, 1 minute

FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

IMMERSION: Diameter increase 5% (maximum);

no cracking, no dielectric breakdown

JACKET COLOR: White preferred

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): (After Accelerated

Aging, Immersion, Life Cycle and Low Temperature-Cold Bend)

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designators as follow:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high strength copper alloy

The "*" in the part numbers on page 1 shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 24, tin-coated copper, white, black and red component wires;

white jacket: 44A4331-24-9/0/2-9