

SPECIFICATION CONTROL DRAWING

44A484X

TITLE FOUR CONDUCTOR CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, JACKETED, MEDIUM WEIGHT, AIRFRAME, 600 VOLT

Date 5-16-91

Revision C

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

COMPONENT WIRES - 44A081X

JACKET - RADIATION-CROSSLINKED, MODIFIED PVF₂

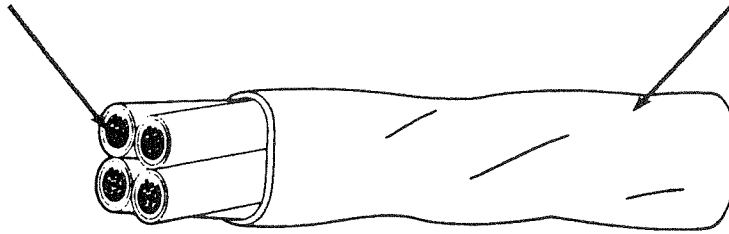


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A484X-24*	24	.0055	.007	.145	.171	13.5
44A484X-22*	22	.0055	.007	.164	.194	18.8
44A484X-20*	20	.0055	.007	.183	.217	25.7
44A484X-18*	18	.0060	.008	.210	.248	37.5
44A484X-16*	16	.0060	.008	.231	.274	45.7
44A484X-14*	14	.0060	.008	.277	.329	67.2
44A484X-12*	12	.0070	.009	.323	.383	97.8
44A484X-10*	10	.0100	.012	.399	.473	157.

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
44A484X-24*	4.00	4.00	1.00	18.0
44A484X-22*	4.50	4.50	3.00	18.0
44A484X-20*	5.00	5.00	4.00	24.0
44A484X-18*	6.00	6.00	4.00	24.0
44A484X-16*	7.00	7.00	4.00	30.0
44A484X-14*	8.00	8.00	4.00	30.0
44A484X-12*	9.00	9.00	4.00	30.0
44A484X-10*	18.0	18.0	4.00	30.0

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: 600 volts (rms)

ACCELERATED AGING: 225 ± 2°C for 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 2500 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, red and orange component wires;
white jacket: 44A4841-24-9/0/2/3-9