SPECIFICATION CONTROL DRAWING

TITLE		44A183X	
THREE CONDUCTOR CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, SHIELDED, JACKETED, MEDIUM WEIGHT, AIRFRAME, 600 VOLT	Date 07-31-01	Revision E

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

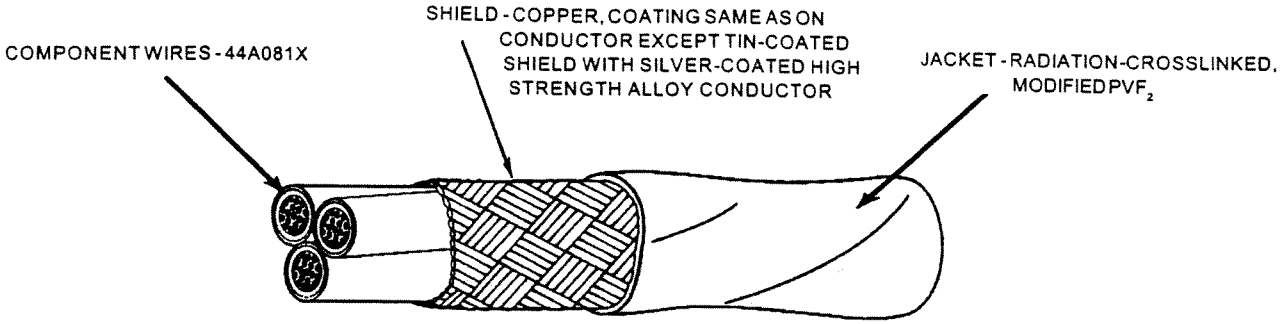

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A183X-24-*	24	36	.006	.008	.156	.163	18.7
44A183X-22-*	22	36	.007	.009	.175	.182	23.9
44A183X-20-*	20	36	.007	.009	.192	.199	30.5
44A183X-18-*	18	36	.007	.009	.214	.222	40.3
44A183X-16-*	16	36	.007	.009	.233	.241	47.6
44A183X-14-*	14	36	.008	.010	.276	.286	68.5
44A183X-12-*	12	36	.008	.010	.315	.331	94.4
44A183X-10-*	10	36	.008	.010	.376	.395	138.
44A183X- 8-*	8	34	.010	.012	.513	.539	249.

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND
44A183X-24-*	6.00	6.00	.375	14.0
44A183X-22-*	6.00	6.00	.375	14.0
44A183X-20-*	6.00	6.00	.500	18.0
44A183X-18-*	6.00	6.00	.750	18.0
44A183X-16-*	6.00	6.00	.750	23.0
44A183X-14-*	10.0	10.0	1.00	23.0
44A183X-12-*	10.0	10.0	1.50	23.0
44A183X-10-*	18.0	18.0	1.50	22.5
44A183X- 8-*	18.0	18.0	2.00	27.0

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

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CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms)
ACCELERATED AGING: 300 ± 3°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)
JACKET FLAWS:
Spark Test, 1.5 kV (rms), 100% test
Impulse Dielectric Test, 6.0 kV (peak), 100% test
LIFE CYCLE: 200 ± 3°C for 168 hours
LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
SHIELD COVERAGE: 85% (minimum)
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 designator as follows:

1 tin-coated copper
2 silver-coated copper
3 nickel-coated copper
4 silver-coated high strength copper alloy
6 nickel-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 20, tin-coated copper wire; white, black and red component wires; white jacket; 44A1831-20-9/0/2-9