

SPECIFICATION CONTROL DRAWING

44AM1841

TITLE FOUR CONDUCTOR, SHIELDED, JACKETED, MEDIUM WEIGHT, AIRFRAME

Date 4-25-90

Revision B

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

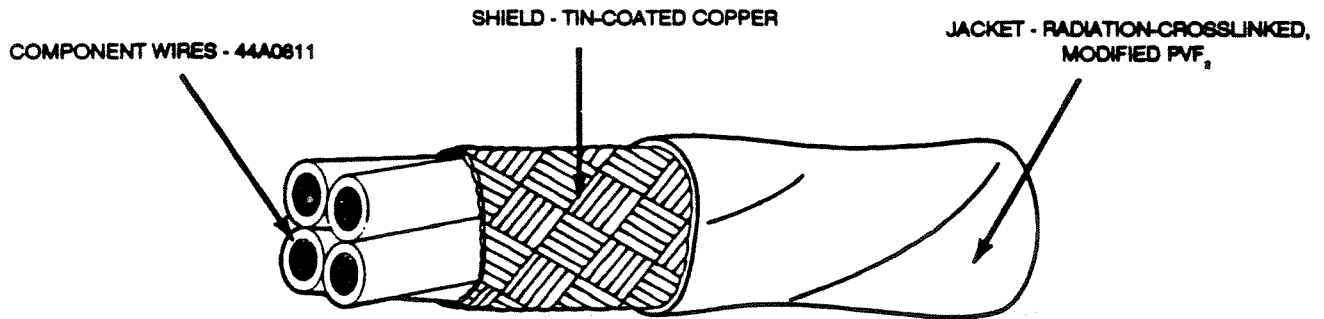


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AM1841-24-*	24	38	.005	.010	.164	.172	21.4
44AM1841-22-*	22	38	.006	.012	.185	.193	26.2
44AM1841-20-*	20	38	.006	.012	.204	.213	36.1
44AM1841-18-*	18	38	.007	.014	.229	.238	47.3
44AM1841-16-*	16	38	.007	.014	.250	.259	58.1
44AM1841-14-*	14	38	.007	.014	.302	.317	87.4
44AM1841-12-*	12	38	.007	.014	.348	.363	122
44AM1841-10-*	10	38	.007	.014	.416	.491	178

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
44AM1841-24-*	6.00	6.00	1.00	18.0
44AM1841-22-*	6.00	6.00	3.00	18.0
44AM1841-20-*	6.00	6.00	4.00	24.0
44AM1841-18-*	6.00	6.00	4.00	24.0
44AM1841-16-*	6.00	6.00	4.00	30.0
44AM1841-14-*	10.0	10.0	4.00	30.0
44AM1841-12-*	10.0	10.0	4.00	30.0
44AM1841-10-*	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-881.

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)

AGING STABILITY: 180 ± 5°C for 96 hours

BLOCKING: 150 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 200 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts, 60 Hz (rms), 15 seconds (minimum), 30 seconds (maximum)

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, 60 Hz (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 180 ± 5°C for 4 hours

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): (After Immersion, Low Temperature-Cold Bend and Crosslinked Verification) 1000 volts, 60 Hz (rms), 1 minute

PART NUMBER:

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, white, blue, orange, and green; white jacket:

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