

SPECIFICATION CONTROL DRAWING

44AM1711

TITLE ONE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT, AIRFRAME

Date 4-19-20

Revision A

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-C-27500 as applicable.

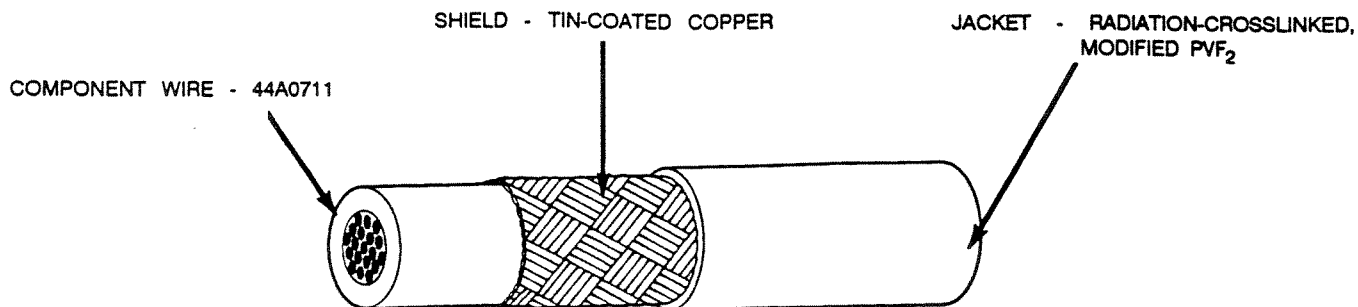


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AM1711-24-*	24	38	.005	.010	.090	.095	8.3
44AM1711-22-*	22	38	.005	.010	.102	.107	10.5
44AM1711-20-*	20	38	.005	.010	.111	.117	12.9
44AM1711-18-*	18	38	.005	.010	.121	.127	16.3
44AM1711-16-*	16	38	.005	.010	.130	.137	19.2
44AM1711-14-*	14	38	.005	.010	.148	.155	25.8
44AM1711-12-*	12	38	.005	.010	.164	.172	35.0

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
44AM1711-24-*	3.00	3.00	.500	4.50
44AM1711-22-*	3.00	3.00	1.50	4.50
44AM1711-20-*	3.00	3.00	2.00	6.00
44AM1711-18-*	3.00	3.00	2.00	6.00
44AM1711-16-*	6.00	6.00	2.50	7.50
44AM1711-14-*	6.00	6.00	2.50	7.50
44AM1711-12-*	6.00	6.00	2.50	7.50

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)**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 dash separating the component wire color from the jacket color.

Example: AWG 20, white component wire; white jacket:

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