

SPECIFICATION CONTROL DRAWING

44A0711

TITLE WIRE, ELECTRIC, RADIATION-CROSSLINKED, POLYALKENE INSULATED,
NORMAL WEIGHT, AIRFRAME, 600 VOLT

Date 5-25-05

Revision F

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-W-81044 as applicable.

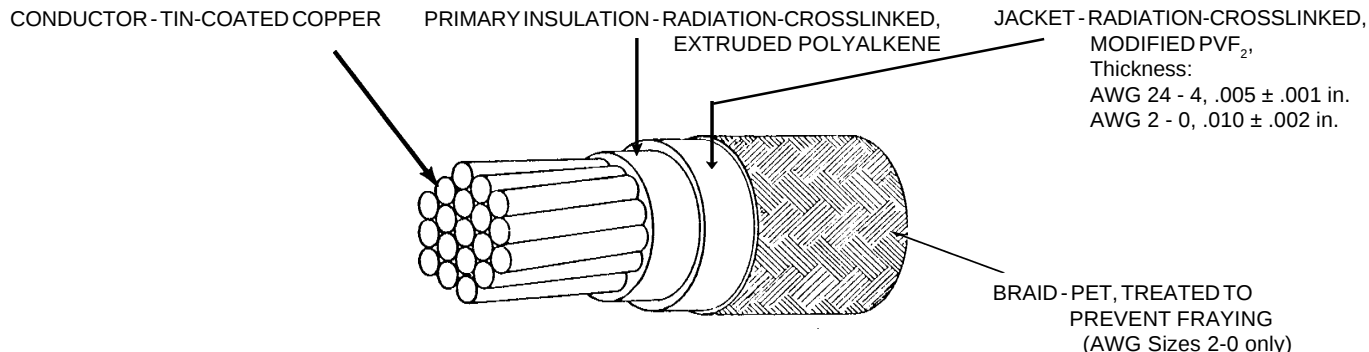


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000ft)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft)
44A0711-24-*	24	19 x 36	.023	.026	26.2	.057 ± .002	3.0
44A0711-22-*	22	19 x 34	.029	.033	16.2	.069 ± .003	4.3
44A0711-20-*	20	19 x 32	.037	.041	9.88	.078 ± .003	6.1
44A0711-18-*	18	19 x 30	.046	.051	6.23	.088 ± .003	8.7
44A0711-16-*	16	19 x 29	.052	.058	4.81	.097 ± .004	10.9
44A0711-14-*	14	19 x 27	.065	.073	3.06	.115 ± .004	16.2
44A0711-12-*	12	37 x 28	.084	.090	2.02	.131 ± .004	24.2
44A0711-10-*	10	37 x 26	.106	.114	1.26	.161 ± .005	36.5
44A0711- 8-*	8	133 x 29	.158	.173	.701	.219 ± .006	65.0
44A0711- 6-*	6	133 x 27	.198	.217	.445	.269 ± .007	103.
44A0711- 4-*	4	133 x 25	.250	.274	.280	.325 ± .008	158.
44A0711- 2-*	2	665 x 30	.320	.340	.183	.418 ± .013	252.
44A0711- 1-*	1	817 x 30	.360	.380	.149	.460 ± .015	305.
44A0711- 0-*	0	1045 x 30	.405	.425	.116	.508 ± .017	380.

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	LIFE CYCLE AND ACCELERATED AGING	COLD BEND	+ WRAP	LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A0711-24-*	.500	1.00	.250	1.00	3.00
44A0711-22-*	.750	1.00	.250	3.00	3.00
44A0711-20-*	.750	1.00	.250	4.00	4.00
44A0711-18-*	1.00	1.50	.375	4.00	4.00
44A0711-16-*	1.00	1.50	.375	5.00	5.00
44A0711-14-*	1.50	2.00	.500	5.00	5.00
44A0711-12-*	2.00	2.00	.500	5.00	5.00
44A0711-10-*	3.00	3.00	.750	5.00	5.00
44A0711- 8-*	3.00	4.00	.750	6.00	6.00
44A0711- 6-*	4.00	5.00	1.00	6.00	10.0
44A0711- 4-*	5.00	6.00	1.25	6.00	10.0
44A0711- 2-*	6.00	8.00	3.00	6.00	15.0
44A0711- 1-*	8.00	10.0	4.00	7.00	15.0
44A0711- 0-*	8.00	10.0	4.00	7.00	15.0

+ See Note on Page 2

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

+ ACCELERATED AGING: 300 ± 2°C for 6 hours

Identification legibility, (AWG 24-4 only) 225 ± 2°C for 6 hours

BLOCKING: 150 ± 2°C for 24 hours

BRAID COLOR: Per MIL-STD-104, Class 2, except that light brown shall

be within munsell color limits (see Table III); nominal, 2.5 YR 3/6

FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

HUMIDITY RESISTANCE: Insulation Resistance, 5000 Megohms for 1000 ft. (minimum)

IDENTIFICATION, STRIPING, OR BAND DURABILITY (AWG 24-4 only):

125 cycles (250 strokes) (minimum), 500 g weight

IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown

INSULATION ELONGATION AND TENSILE STRENGTH:

Primary Insulation,

Tensile Strength, 2500 lbf/in² (minimum), AWG 24-12

2000 lbf/in² (minimum), AWG 10-0

Elongation, 150% (minimum)

INSULATION FLAWS:

Primary Insulation,

SparkTest, 3.0 kV (rms) at 60 Hz

4.2 kV (rms) at 3 kHz

Impulse DielectricTest, 6.0 kV (peak)

Finished Wire;

SparkTest, 5.7 kV (rms) at 3 kHz

Impulse DielectricTest, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 Megohms for 1000 ft. (minimum)

JACKET COLOR (AWG 2-0 only): White

+ LIFE CYCLE: 200 ± 2°C for 168 hours

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

+ SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 in., AWG 24-12

300 ± 2°C, 0.250 in. (maximum) in 12 in., AWG 10-0

SMOKE: 200 ± 2°C. No visible smoke.

SOLDERABILITY: Per MIL-STD-202, Method 208, except without steam aging, Type RMA Flux

+ SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings

THERMAL SHOCK: 150 ± 2°C, 0.060 in. (maximum), primary insulation and jacket only.

VOLTAGE WITHSTAND (POST ENVIRONMENTAL): 2500 volts (rms), 60 Hz, 5 minutes

WICKING: 2.25 in. (maximum) between primary insulation and jacket.

PART NUMBER: The "*" in the part numbers on page 1 shall be replaced by

color code designators except that Lt. brown shall be designated as -1L

For AWG 2-0, only the braid color shall be designated.

1/ Example:

AWG 20, white: 44A0711-20-9

AWG 20, white with black stripe: 44A0711-20-90

AWG 2, white jacket, Lt. brown braid: 44A0711-2-1L

1/ See footer section on page 1

+ NOTE: For AWG 2-0, these tests are conducted prior to application of the braid.

TABLE III. MUNSELL COLOR LIMITS	
HUE	5R - 5YR
VALUE	3.0 - 5.0
CHROMA	4.0 - 6.0

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