

SPECIFICATION CONTROL DRAWING

SCD Number

44A0811

TITLE WIRE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, MEDIUMWEIGHT, 600VOLT

Date 28-Mar-11

Revision P1

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

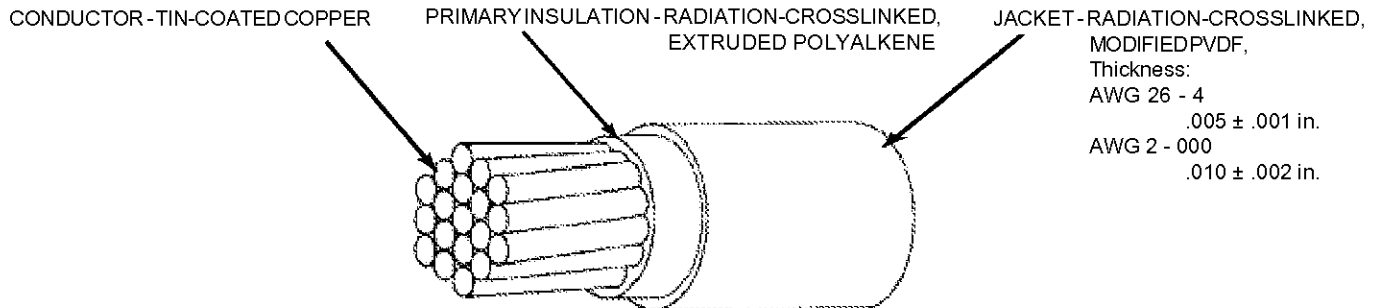


TABLE I. CONSTRUCTION DETAILS

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.)
44A0811-26-*	26	19 x 38	.018	.021	41.3	.048 ± .002	1.9
44A0811-24-*	24	19 x 36	.023	.026	26.2	.054 ± .002	2.6
44A0811-22-*	22	19 x 34	.029	.033	16.2	.062 ± .003	3.8
44A0811-20-*	20	19 x 32	.037	.041	9.88	.070 ± .003	5.4
44A0811-18-*	18	19 x 30	.046	.051	6.23	.080 ± .003	8.0
44A0811-16-*	16	19 x 29	.052	.058	4.81	.089 ± .004	9.9
44A0811-14-*	14	19 x 27	.065	.073	3.06	.108 ± .004	14.9
44A0811-12-*	12	37 x 28	.084	.090	2.02	.126 ± .004	21.9
44A0811-10-*	10	37 x 26	.106	.114	1.26	.155 ± .005	35.0
44A0811- 8-*	8	133 x 29	.158	.173	.701	.214 ± .006	62.8
44A0811- 6-*	6	133 x 27	.198	.217	.445	.264 ± .007	99.3
44A0811- 4-*	4	133 x 25	.250	.274	.280	.320 ± .008	153.
44A0811- 2-*	2	665 x 30	.320	.340	.183	.400 ± .012	247.
44A0811- 0-*	0	1045 x 30	.405	.425	.116	.490 ± .016	377.
44A0811-00-*	00	1330 x 30	.450	.475	.091	.562 ± .016	498.
44A0811-000-*	000	1665 x 30	.515	.540	.071	.634 ± .020	588.

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A0811-26-*	.500	1.00	.250	0.50	3.00
44A0811-24-*	.500	1.00	.250	0.50	3.00
44A0811-22-*	.750	1.00	.250	1.50	3.00
44A0811-20-*	.750	1.00	.250	2.00	4.00
44A0811-18-*	1.00	1.50	.375	2.00	4.00
44A0811-16-*	1.00	1.50	.375	2.00	5.00
44A0811-14-*	1.50	2.00	.500	2.00	5.00
44A0811-12-*	2.00	2.00	.500	2.00	5.00
44A0811-10-*	3.00	3.00	.750	2.00	5.00
44A0811- 8-*	3.00	4.00	.750	3.00	6.00
44A0811- 6-*	4.00	5.00	1.00	3.00	10.0
44A0811- 4-*	5.00	6.00	1.25	3.00	10.0
44A0811 - 2-*	6.00	8.00	3.00	4.00	15.0
44A0811- 0-*	8.00	10.0	4.00	4.00	15.0
44A0811-00-*	10.0	12.0	4.50	5.00	20.0
44A0811-000-*	18.0	18.0	6.00	6.00	20.0

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

TE Connectivity 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-881. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.



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, 225 ± 2°C for 6 hours

BLOCKING: 150 ± 2°C for 24 hours

COLOR: White preferred

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

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

IDENTIFICATION, STRIPING, OR BAND DURABILITY:

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,

Elongation, 150% (minimum)

Tensile Strength, 2500 lbf/in² (minimum), AWG 26-12

2000 lbf/in² (minimum), AWG 10 & larger

INSULATION FLAWS:

Primary Insulation,

Spark Test, 3.0 kV (rms) at 60 Hz

4.2 kV (rms) at 3 kHz

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 5.7 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft (minimum)

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 inches, AWG 26-12

0.250 in. (maximum) in 12 inches, AWG 10 & larger

SMOKE: 200 ± 2°C, no visible smoke.

SOLDERABILITY: 95% minimum coverage.

Per MIL-STD-202, Method 208, except without steam aging, Type RMA Flux (for

10 AWG & smaller only)

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

THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum)

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz, 5 minutes

WICKING: 2.25 in. (maximum)

PART NUMBER:

The "" in the part numbers on page 1 shall be replaced by color code designators.

1/ Example: AWG 18, white: 44A0811-18-9

AWG 14, white with a black stripe: 44A0811-14-90

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