



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SPECIFICATION CONTROL DRAWING

44A0111

TITLE WIRE, ELECTRIC, RADIATION-CROSSLINKED, TIN-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 24MAR11

Revision P1

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

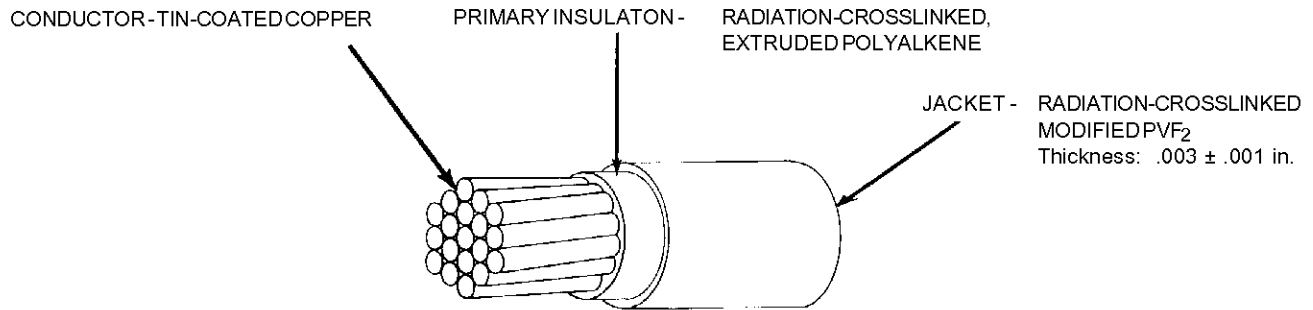


TABLE I. CONSTRUCTION DETAILS

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/1000 ft)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
44A0111-26-*	26	19 x 38	.018	.021	41.3	.034 ± .002	1.4
44A0111-24-*	24	19 x 36	.023	.026	26.2	.040 ± .002	2.0
44A0111-22-*	22	19 x 34	.029	.033	16.2	.047 ± .002	3.0
44A0111-20-*	20	19 x 32	.037	.041	9.88	.055 ± .002	4.5
44A0111-18-*	18	19 x 30	.046	.051	6.23	.065 ± .002	6.8
44A0111-16-*	16	19 x 29	.052	.058	4.81	.072 ± .003	8.6
44A0111-14-*	14	19 x 27	.065	.073	3.06	.089 ± .004	13.2
44A0111-12-*	12	37 x 28	.084	.090	2.02	.108 ± .004	20.2
44A0111-10-*	10	37 x 26	.106	.114	1.26	.129 ± .004	31.1

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	IMMERSION, LIFECYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A0111-26-*	.500	.500	.250	.250	.500
44A0111-24-*	.500	.500	.250	.375	.500
44A0111-22-*	.750	.750	.250	.375	1.00
44A0111-20-*	.750	.750	.250	.375	1.00
44A0111-18-*	1.00	1.00	.375	.500	1.00
44A0111-16-*	1.00	1.00	.375	.500	1.00
44A0111-14-*	1.50	1.50	.500	1.00	3.00
44A0111-12-*	2.00	2.00	.500	1.00	3.00
44A0111-10-*	2.50	2.50	.500	1.00	3.00

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

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

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

TE CONNECTIVITY

## 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 in. (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,  
Tensile Strength, 2500 lbf/in<sup>2</sup> (minimum)  
Elongation, 150% (minimum)  
INSULATION FLAWS:  
Primary Insulation,  
Spark test, 1.5 kV (rms), at 60 Hz  
High Frequency Spark Test: 4.2 kV (rms) at 3.0 kHz  
Impulse Dielectric test, 6.0 kV (peak)  
Finished Wire,  
High Frequency Spark Test: 5.7 kV (rms) at 3.0 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 in.  
SMOKE TEST: 200 ± 2°C. No visible smoke  
SOLDERABILITY (95% minimum coverage): per MIL-STD-202,  
Method 208, except without steam-aging, Type RMA Flux  
SURFACE RESISTANCE: 500 Megohms-in. (minimum), both readings  
THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum)  
VOLTAGE WITHSTAND TEST (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 a color code designator.

1/ Example: AWG 20, white: 44A0111-20-9

1/ See Footer section on page 1