SPECIFICATION CONTROL DRAWING

44A0112

С

Title WIRE ELECTRIC, RADIATION-CROSSLINKED POLYALKENE INSULATED,

SILVER-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 05-20-03 Revision

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

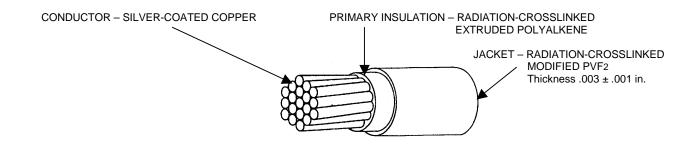


TABLE I. CONSTRUCTION DETAILS										
		CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE					
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)				MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT			
	, ,	,	MINIMUM	MAXIMUM	(ohms/1000 ft)	` '	(lb/1000 ft)			
44A0112-26-*	26	19 x 38	.018	.020	38.4	.034 ± .002	1.4			
44A0112-24-*	24	19 x 36	.023	.025	24.3	.040 ± .002	2.1			
44A0112-22-*	22	19 x 34	.029	.032	15.1	.047 ± .002	3.1			
44A0112-20-*	20	19 x 32	.037	.040	9.19	.055 ± .002	4.6			
44A0112-18-*	18	19 x 30	.046	.050	5.79	.065 ± .002	7.0			
44A0112-16-*	16	19 x 29	.052	.057	4.52	.072 ± .003	8.9			
44A0112-14-*	14	19 x 27	.065	.072	2.88	.089 ± .004	13.9			
44A0112-12-*	12	37 x 28	.084	.089	1.90	.108 ± .004	21.7			

TABLE II. PERFORMANCE DETAILS									
PART NUMBER 1/	BEND TESTING								
	MANDRE	L DIAMETER	WEIGHT						
	(inch) (± 3%)	(lb) (± 3%)						
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
44A0112-26-*	.500	.500	.250	.250	.500				
44A0112-24-*	.500	.500	.250	.375	.500				
44A0112-22-*	.750	.750	.250	.375	1.00				
44A0112-20-*	.750	.750	.250	.375	1.00				
44A0112-18-*	1.00	1.00	.375	.500	1.00				
44A0112-16-*	1.00	1.00	.375	.500	1.00				
44A0112-14-*	1.50	1.50	.500	1.00	3.00				
44A0112-12-*	2.00	2.00	.500	1.00	3.00				

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.

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

tyco **Electronics**

Hanchem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297





44A0112

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,

Elongation, 150% (minimum)

Tensile Strength, 2500 lbf/in² (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 \pm 2°C for 4 hours

SHRINKAGE: 300 ± 2 °C, 0.125 in. (maximum) in 12 in.

SMOKE TEST: 200 ± 2°C. No visible smoke

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: 44A0112-20-9

AWG 20, white with a black stripe: 44A0112-20-90

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Hook-up Wire category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

002333-000 M81044/12-22-6 M81044/9-8-9 743094-001 81044/12-18-9CS3209 8538-009-1000 ATFC0311-20-5D EF5675-000 BFWUL3239-24-PINK 22759/34-16-9CS2621 22759/42-24-9CS2620 933205-000 284711-000 961473-000 30802-009-250 99M0111-20-2 A00594-000 190571-000 22759/41-12-9CS2620 22759/41-16-9CS2620 22759/43-10-9CS2873 265925-000 CM9524-000 31510-010-250 31514-009-500 34401-010-250 34402-010-500 M81044/9-4-9 391441-BK007 400R0111-10-9 431660-000 ATFC0311-20-0 44/7024-26-9-9 44A0112-22-9CS3184 456157-000 BFW-UL3239-24-WHITE 55/0312-26-6L-CS2570 55A0811-12-9 55A6087-20-9-9-9 55A6315-22-9-9CS2632 55A7400-22-9/96-9CS2275 55A9002-30-5 55PC0211-20-5CS2502 55PC0811-6-9CS2637 55PC1211-22-9-9CS3278 C07683-000 32820-009-5000 34020-008-2000 391850-BK199 392075-RD199