SPECIFICATION CONTROL DRAWING

82A0111

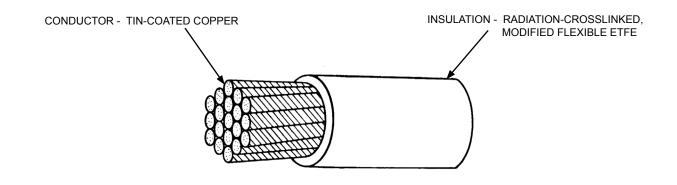
WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 6-5-13

Revision

Т

This specification sheet forms a part of the latest issue of Raychem Specification 80.



		T/	ABLE I. CONST	RUCTION DET	AILS		
		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.)	1	(lbs/1000 ft.)
82A0111-28-*	28	42 x 44	.013	.017	71.4	.029 ± .003	1.0
82A0111-26-*	26	63 x 44	.017	.021	43.5	.033 ± .003	1.4
82A0111-24-*	24	105 x 44	.023	.027	28.2	.037 ± .003	2.1
82A0111-22-*	22	154 x 44	.029	.033	19.2	.043 ± .003	2.9
82A0111-20-*	20	154 x 42	.037	.043	11.7	.053 ± .004	4.2
82A0111-18-*	18	259 x 42	.047	.053	7.14	.064 ± .004	6.7
82A0111-16-*	16	259 x 40	.061	.067	4.53	.079 ± .004	10.2
82A0111-14-*	14	665 x 42	.078	.086	2.96	.099 ± .005	16.5
82A0111-12-*	12	665 x 40	.096	.106	1.89	.121 ± .006	24.8
82A0111-10-*	10	665 x 38	.126	.140	1.12	.157 ± .009	42.2
82A0111-8-*	8	665 x 36	.157	.173	.714	.195 ± .010	66.3
82A0111-6-*	6	1045 x 36	.192	.208	.490	.236 ± .011	102.
82A0111-4-*	4	1665 x 36	.265	.285	.326	.318 ± .013	169.
82A0111-2-*	2	1665 x 34	.325	.345	.204	.385 ± .014	252.
82A0111-1-*	1	2109 x 34	.370	.400	.163	.445 ± .019	317.
82A0111-0-*	0	2660 x 34	.435	.465	.133	.516 ± .020	407.
82A0111-00-*	00	3325 x 34	.485	.515	.102	.566 ± .020	502.

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

Tyco Electronics Corporation 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.



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SPECIFICATION CONTROL DRAWING

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Revision

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SCD Number

	TABLE II. PERFORMANCE DETAILS				
	BEND TESTING				
PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)			
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST			
82A0111-28-*	.250	.125			
82A0111-26-*	.375	.125			
82A0111-24-*	.375	.250			
82A0111-22-*	.500	.375			
82A0111-20-*	.500	.500			
82A0111-18-*	.500	.500			
82A0111-16-*	.750	.750			
82A0111-14-*	1.00	1.00			
82A0111-12-*	1.50	1.50			
82A0111-10-*	2.00	1.50			
82A0111-8-*	3.00	2.00			
82A0111-6-*	3.00	2.00			
82A0111-4-*	4.00	2.50			
82A0111-2-*	6.00	3.00			
82A0111-1-*	8.00	4.00			
82A0111-0-*	8.00	4.00			
82A0111-00-*	8.00	4.00			

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CONCENTRICITY: 70% (minimum)

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 gram weight INSULATION ELONGATION AND TENSILE STRENGTH:

AWG 28-26: Elongation, 75% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

AWG 24-10: Elongation, 75% (minimum)

Tensile Strength, 3500 lbf/in2 (minimum)

AWG 8-00: Elongation, 125% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 1.5 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak)

INSULATION THICKNESS:

AWG 28-16: .004 in. (minimum) AWG 14-10: .006 in. (minimum)

AWG 8-00: .012 in. (minimum)

SECANT MODULUS: (Test per ASTM D 882) AWG 28-10: 5.0 x 10⁴ lbf/in² (maximum) AWG 8-00: 4.0 x 10⁴ lbf/in² (maximum)

2% strain, 2 inch jaw separation, 0.2 inch/minute

SHRINKAGE: 150 ± 3°C for 6 hours,

AWG 28-10: 0.13 in. (maximum) in 12 inches AWG 8-00: 0.25 in. (maximum) in 12 inches

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

PART NUMBER:

The "*" in the part numbers in Tables I and II shall be replaced by a color code designator.

1/ Example: AWG 12, white; 82A0111-12-9

AWG 12, white with a black stripe; 82A0111-12-90

1/ See footer section on page 1

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