S	PECIFICATION CONTROL DRAWING		82A0111
TTLE	WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	Date 6-5-13	Revision T
	This specification sheet forms a part of the latest issue of Raychem	Specification 80.	

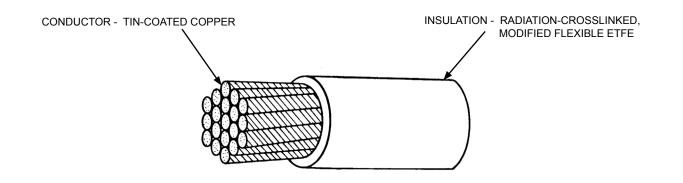


TABLE I. CONSTRUCTION DETAILS							
			STRANDING CONDUCTOR		FINISHED WIRE		
PART NUMBER <u>1</u> /	SIZE STRANDI	CONDUCTOR STRANDING (number x AWG)			JCTOR RESISTANCE		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		(105/1000 11.)
82A0111-28-*	28	42 x 44	.013	.017	71.4	.029 ± .003	1.0
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.

Tyco Electro	Users should evaluate the suitability of this product for their application. Specifications are subject t nics Corporation also reserves the right to make changes in materials or processing, which do not affect complianc		ut notification to Buyer.
	1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHEI ADDED TO THE PART NUMBER. AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPO		
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Page 1 of 2	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.		501 Oakside Avenue Redwood City, CA 94063-3800
Tuge Tot 2	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN FEFECT ON DATE OF INVITATION FOR BID	connectivity	Phone: 1-800-227-8816 Fax: 1-650-361-6297

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Revision

	TABLE II. PERFORMANCE DETAILS			
	BEND TESTING			
PART NUMBER <u>1</u> /	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/in<sup>2</sup> (minimum) AWG 24-10: Elongation, 75% (minimum) Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum) AWG 8-00: Elongation, 125% (minimum) Tensile Strength, 3000 lbf/in<sup>2</sup> (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 10<sup>4</sup> lbf/in<sup>2</sup> (maximum)

AWG 8-00: 4.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (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

单击下面可查看定价,库存,交付和生命周期等信息

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