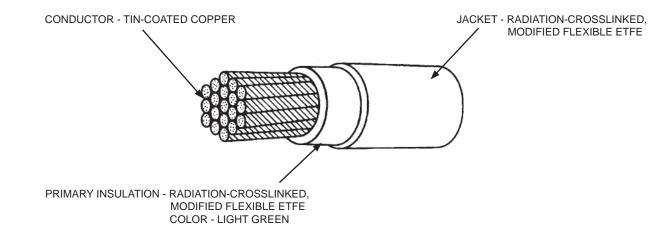
S	PECIFICATION CONTROL DRAWING		82A0811
TITLE	WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT	Date 11-5-13	Revision F
	This specification sheet forms a part of the latest issue of Raychem	Specification 80.	



		T/	ABLE I. CONST	RUCTION DET	AILS		
				TER OF		FINISHED WI	RE
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDU	NDED JCTOR ch)	MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		(lbs/1000 ft.)
82A0811-24-*	24	105 x 44	.023	.027	28.2	.044 ± .003	2.5
82A0811-22-*	22	154 x 44	.029	.033	19.2	.054 ± .003	3.7
82A0811-20-*	20	154 x 42	.037	.043	11.7	.064 ± .004	5.2
82A0811-18-*	18	259 x 42	.047	.053	7.14	.076 ± .004	8.0
82A0811-16-*	16	259 x 40	.061	.067	4.53	.092 ± .005	11.9
82A0811-14-*	14	665 x 42	.078	.086	2.96	.116 ± .005	19.3
82A0811-12-*	12	665 x 40	.096	.106	1.89	.137 ± .006	27.9
82A0811-10-*	10	665 x 38	.126	.140	1.12	.187 ± .008	50.0
82A0811-8-*	8	665 x 36	.157	.173	.714	.230 ± .008	77.3
82A0811-6-*	6	1045 x 36	.192	.208	.490	.277 ± .010	118.
82A0811-4-*	4	1665 x 36	.265	.285	.326	.359 ± .010	189.
82A0811-2-*	2	1665 x 34	.325	.345	.204	.433 ± .016	282.
82A0811-1-*	1	2109 x 34	.370	.400	.163	.488 ± .016	348.
82A0811-0-*	0	2660 x 34	.435	.465	.133	.558 ± .016	442.
82A0811-00-*	00	3325 x 34	.485	.515	.102	.612 ± .016	544.
82A0811-000-*	000	4123 x 34	.540	.575	.087	.678 ± .016	668.
82A0811-0000-*	0000	5320 x 34	.615	.655	.066	.771 ± .022	863.

Tyco Electron	Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. co 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. OTHE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPO			
Page 1 of 2	Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks.		Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	
	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL.	-TE		
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	connectivity		

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## SPECIFICATION CONTROL DRAWING

82A0811 Revision

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Page

	TABLE II. PERFORMANCE DETAILS		
	BEND TESTING		
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lbs) (± 3%)	
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TES	
82A0811-24-*	.500	.750	
82A0811-22-*	.500	1.00	
82A0811-20-*	.500	1.50	
82A0811-18-*	.750	2.00	
82A0811-16-*	1.00	2.00	
82A0811-14-*	1.00	3.00	
82A0811-12-*	1.50	3.00	
82A0811-10-*	2.00	3.00	
82A0811-8-*	3.00	4.00	
82A0811-6-*	4.00	4.00	
82A0811-4-*	5.00	4.00	
82A0811-2-*	6.00	6.00	
82A0811-1-*	8.00	6.00	
82A0811-0-*	8.00	6.00	
82A0811-00-*	10.0	8.00	
82A0811-000-*	10.0	8.00	
82A0811-0000-*	10.0	8.00	

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C** Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level CONCENTRICITY: 70% (minimum) CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight INSULATION ELONGATION AND TENSILE STRENGTH: AWG 24-10: Elongation, 75% (minimum) Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum) AWG 8-0000: Elongation, 125% (minimum) Tensile Strength, 3000 lbf/in<sup>2</sup> (minimum) **INSULATION FLAWS:** Primary Insulation, Spark Test, 1.5 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak) Finished Wire, Spark Test, 3.0 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: AWG 24-18: .004 in. (minimum) for primary insulation .004 in. (minimum) for outer jacket AWG 16-10: .005 in. (minimum) for primary insulation .005 in. (minimum) for outer jacket AWG 8-4: .008 in. (minimum) for primary insulation .012 in. (minimum) for outer jacket AWG 2-0000: .010 in. (minimum) for primary insulation .015 in. (minimum) for outer jacket JACKET COLOR: White preferred SECANT MODULUS (Test per ASTM D 882): AWG 24-10: 5.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (maximum) AWG 8-0000: 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 24-10: 0.13 in. (maximum) in 12 inches AWG 8-0000: 0.25 in. (maximum) in 12 inches VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz 1/ PART NUMBER: The "\*" in the part numbers on pages 1 and 2 shall be replaced by a color code designator. Example: AWG 12, white: 82A0811-12-9 AWG 12, white with a black stripe: 82A0811-12-90

1/ See footer section on page 1

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