S	SPECIFICATION CONTROL DRAWING	82A0116			
ITLE	WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	Date 2-25-13	Revision A		
	This specification sheet forms a part of the latest issue of Raychem Specification 80.				

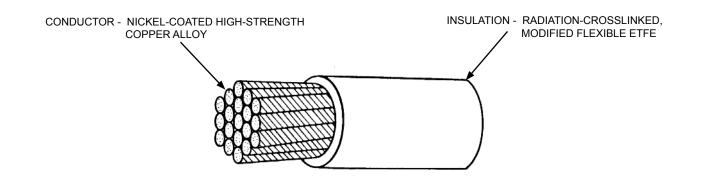


TABLE I. CONSTRUCTION DETAILS							
	WIRE SIZE (AWG) (number x AWG)	DIAMETER OF		FINISHED WIRE			
PART NUMBER <u>1</u> /		STRANDING	CONDUCTOR		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	MAXIMUM				
82A0116-28-*	28	42 x 44	.013	.017	87.7	.029 ± .003	1.1
82A0116-26-*	26	63 x 44	.017	.022	62.6	.033 ± .003	1.5
82A0116-24-*	24	105 x 44	.023	.028	36.7	.037 ± .003	2.1
82A0116-22-*	22	154 X 44	.029	.035	24.5	.043 ± .003	2.9
82A0116-20-*	20	154 X 42	.037	.043	15.8	.053 ± .004	4.3

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST				
82A0116-28-*	.250	.125				
82A0116-26-*	.375	.125				
82A0116-24-*	.375	.250				
82A0116-22-*	.500	.375				
82A0116-20-*	.500	.500				

Tyco Electro	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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Page 1 of 2	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.	- <i>TE</i>	501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297				
r uge r or 2	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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82A0116

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 24-20: Elongation, 75% (minimum) Tensile Strength, 3500 lbf/in² (minimum) **INSULATION FLAWS:** Spark Test, 1.5 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak) INSULATION THICKNESS: .004 in. (minimum) PRODUCT IDENTIFICATION: black ink only SECANT MODULUS (Test per ASTM D 882): 5.0 x 10⁴ lbf/in² (maximum) 2% strain, 2 inch jaw separation, 0.2 inch/minute SHRINKAGE: 200 ± 3°C for 6 hours, 0.13 in. (maximum) in 12 inches VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by a color code designator. 1/ Example: AWG 24, white; 82A0116-24-9 AWG 24, white with a black stripe; 82A0116-24-90

1/ See footer section on page 1