SPECI	FICAT	ION	CONTR	OL DR		G		82/0812	
TITLE W			SLINKED, MODIFI SHT, OUTER SPA			ED, Date	11-8-06	Revision B	
						ychem Specificatio	n 80.		
CONDUCTOR-SILVER-COATED COPPER JACKET-RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE									
PRIMA	RYINSULATIO	MODIF	FION-CROSSLINK IED FLEXIBLE E R - LIGHT GREEN	,	/				
			TA	BLE I. CONSTR	RUCTION DET	AILS			
			DIAMETER OF			FINISHED WIRE			
PAR	RT NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	COND	NDED UCTOR n.) MAXIMUM	MAXIMUM RESISTANCEAT 20°C (ohms/1000ft)	DIAMETER (in.)	MAXIMUM WEIGHT (Ib/1000 ft)	
82	2/0812-26-*	26	63 x 44	.017	.021	46.9	.038 ± .003	1.7	
	2/0812-24-*	24	105 x 44	.023	.027	28.2	.044 ± .003	2.5	
82	2/0812-22-*	22	154 x 44	.029	.033	19.2	.054 ± .003	3.7	
	2/0812-20-*	20	154 x 42	.037	.043	11.7	.064 ± .004	5.2	
	2/0812-18-*	18	259 x 42	.047	.053	7.14	.076 ± .004	8.0	
	2/0812-16-* 2/0812-14-*	16 14	259 x 40 665 x 42	.061 .078	.067 .086	4.53 2.96	.092 ± .005	11.9 19.3	
	2/0812-14-	14	665 x 42	.078	.086	1.89	.116 ± .005 .137 ± .006	27.9	
	2/0812-10-*	10	665 x 38	.126	.140	1.12	.187 ± .008	50.0	
TABLE II. PERFORMANCE DETAILS									
						DTESTING			
P/	PART NUMBER <u>1</u> /		MAND (inc	२	WEIGHT (lb) (± 3%)				
			CROSSLINKIN	G PROOFTES	т	CROSSLINKING PROOF TEST			
│	82/0812-26-*		.375				.500		
├──	82/0812-24-*		.500			.750			
	82/0812-22-*			.500		1.00			
	82/0812-20-*			.500			1.50		
	82/0812-18-*		.750			2.00 2.00			
	82/0812-16-* 82/0812-14-*			<u>.00</u> .00		3.00			
	82/0812-12-*			.50		3.00			
	82/0812-10-*			2.00		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. Raychem Wire & Cable 501 Oakside Avenue									
	1							501 Oakside Avenue	
Page 1 of 2	THIS SPEC	CIFICATION	S ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL. ION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN UMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR				Electronics	Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	
	•					© 2006 Ty	co Electronics Co	rporation. All rights reserved	

tyco Electronics

R

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. 30 minutes for AWG 26 - 14, 1 hour for AWG 12 and larger IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight INSULATION ELONGATION AND TENSILE STRENGTH: AWG 26, Elongation, 75% (minimum) Tensile Strength, 3000 lbf/in² (minimum) AWG 24 -10, Elongation, 75% (minimum) Tensile Strength, 3500 lbf/in² (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: For AWG 26 - 18, .004 inch (minimum) for primary insulation .004 inch (minimum) for outer jacket For AWG 16 - 10, .005 inch (minimum) for primary insulation .005 inch (minimum) for outer jacket JACKET COLOR: White preferred PRODUCT IDENTIFICATION: black ink only SECANT MODULUS: 5.0 x 10⁴ lbf/in² (maximum), 2% strain, 2 inch jaw separation, 0.2 inch/minute, procedural reference ASTM D 882 SHRINKAGE: 150 ± 3°C for 6 hours, 0.13 inch (maximum) in 12 inches VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 2500 volts (rms), 60 Hz RADIATION RESISTANCE (Test per Raychem Spec. 55/): 500 megarads VACUUM STABILITY (Test per ASTM E 595): Total Mass Loss (TML), 1.00% (maximum) Volitale Condensable Material (VCM), 0.10% (maximum)

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by color code designators. 1/ Example: AWG 16, white wire: 82/0812-16-9 white with blue stripe: 82/0812-16-96

1/ See footer section on page 1