

TABLE I. CONSTRUCTION DETAILS							
			DIAMETER OF		FINISHED WIRE		
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	STRANDED CONDUCTOR (inch)		MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT
			MINIMUM	MAXIMUM	(ohms/1000 ft.) (Ibs/10		(lbs/1000 ft.)
55A0816-26-*	26	19 x 38	.018	.020	49.4	.040 ± .002	1.70
55A0816-24-*	24	19 x 36	.023	.025	30.1	.045 ± .002	2.30
55A0816-22-*	22	19 x 34	.029	.031	18.6	.050 ± .002	3.30
55A0816-20-*	20	19 x 32	.037	.040	11.4	.058 ± .002	4.80
55A0816-18-*	18	19 x 30	.046	.051	7.1	.070 ± .003	7.70
55A0816-16-*	16	19 x 29	.052	.058	5.5	.077 ± .003	9.50

	TABLE II.	PERFORMANCE	DETAILS		
PART	MANDREL DIAMETE (inch) (± 3%)	R	WEIGHT (lb) (± 3%)		
NUMBER <u>1</u> /	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND	
55A0816-26-*	.375	1.00	.500	3.00	
55A0816-24-*	.500	1.00	.750	3.00	
55A0816-22-*	.500	1.00	1.00	3.00	
55A0816-20-*	.500	1.00	1.50	4.00	
55A0816-18-*	.750	1.50	2.00	4.00	
55A0816-16-*	1.00	1.50	2.00	5.00	

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.	- TE				
	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.		Phone: 1-800-522-6752 Fax: 1-650-361-6297			

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS
<ul> <li>TEMPERATURE RATING: 200°C Maximum continuous conductor temperature</li> <li>VOLTAGE RATING: 600 volts (rms) at sea level</li> <li>ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours</li> <li>BLOCKING: 230 ± 3°C for 24 hours</li> <li>COLOR: White preferred</li> <li>CONCENTRICITY: 70% (minimum)</li> <li>FLAMMABILITY: Procedure 1, 3 seconds (maximum), 3 inches (maximum); no flaming of facial tissue</li> <li>HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)</li> <li>IDENTIFICATION, COLOR STRIPING, AND BAND DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight</li> <li>IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown</li> <li>INSULATION ELONGATION AND TENSILE STRENGTH: Elongation, 125% (minimum) for primary insulation 75% (minimum) for total insulation (primary insulation &amp; jacket)</li> <li>Tensile Strength, 5000 Ibf/in<sup>2</sup> (minimum) for primary insulation 5000 Ibf/in<sup>2</sup> (minimum) for total insulation (primary insulation &amp; jacket)</li> </ul>
Primary Insulation, Spark Test, 1.5 kV (rms) at 60 Hz; 4.2 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak) Finished Wire,
Spark Test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak) INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum) INSULATION THICKNESS:
0.003 in. (minimum) for primary insulation 0.004 in. (minimum) for outer jacket 0.009 in. (minimum) for total insulation LIFE CYCLE: 230 ± 3°C for 500 hours
LOW TEMPERATURE-COLD BEND: $-65 \pm 3^{\circ}$ C for 4 hours SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 inches SMOKE TEST: 250 ± 5°C, no visible smoke SURFACE RESISTANCE: 500 meghoms-in. (minimum), both readings
THERMAL SHOCK RESISTANCE: $200 \pm 3^{\circ}$ C, 0.060 in. (maximum) VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz WICKING: 2.25 in. (maximum) WRAP TEST: 313 ± 3°C for 2 hours
<ul> <li><u>1</u>/ PART NUMBER: The "*" in the part numbers in Tables I and II shall be replaced by a color code designator. Example: AWG 22, white: 55A0816-22-9 AWG 22, white with a black stripe: 55A0816-22-90</li> </ul>

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