

TABLE II. PERFORMANCE DETAILS					
		BENDTESTING			
PART NUMBER	MANDRELDIAMETER (inch) (± 3%)		WEIGHT (Ib) (± 3%)		
<u>1/</u>	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	
55A0712-24-*	1.00	1.25	2.00	4.00	
55A0712-22-*	1.00	1.25	2.00	4.00	
55A0712-20-*	1.00	1.25	3.00	5.00	
55A0712-18-*	1.00	1.25	3.00	5.00	
55A0712-16-*	1.25	1.50	3.50	5.50	
55A0712-14-*	1.25	1.50	3.50	5.50	
55A0712-12-*	2.00	3.00	4.00	6.00	
55A0712-10-*	2.00	3.00	4.00	6.00	
55A0712- 8-*	4.00	5.00	4.00	8.00	
55A0712- 6-*	5.00	6.00	5.00	12.0	
55A0712- 4-*	6.00	8.00	5.00	15.0	
55A0712- 2-*	8.00	10.0	6.00	15.0	

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. DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

tyco Electronics

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Page 1 of 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 **tyco** Electronics Revision

В

55A0712

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C Maximum continuous conductor temperature VOLTAGE RATING: 1000 volts (rms) at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 230 ± 3°C for 24 hours COLOR: White preferred CONCENTRICITY: 70% (minimum) FLAMMABILITY: Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue. HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum) for AWG 24 -10, 3000 megohms for 1000 ft. (minimum) for AWG 8 - 2 IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight INSULATION ELONGATION AND TENSILE STRENGTH: Elongation, 50% (minimum) Tensile strength, 5000 lbf/in² (minimum) INSULATION FLAWS: Primary Insulation, Spark test, 1.5 kV (rms) Impulse Dielectric Test, 6.0 kV (peak) Finished Wire, Spark test, 3.0 kV (rms) Impulse Dielectric Test, 8.0 kV (peak) INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum) for AWG 24 -10, 3000 megohms for 1000 ft. (minimum) for AWG 8 - 2 INSULATION THICKNESS: 0.014 in. (minimum) for total insulation LIFE CYCLE: 230 ± 3°C for 500 hours LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours SHRINKAGE: 230 ± 3°C for 6 hours, 0.125 in. (maximum) in 12 in. SMOKE TEST: 250 ± 5°C, No visible smoke SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C 0.060 in. (maximum) for AWG 24 - 12 0.100 in. (maximum) for AWG 10 - 8 0.125 in. (maximum) for AWG 6 - 2 VOLTAGE WITHSTAND TEST(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. <u>1</u>/ Example: AWG 22, white: 55A0712-22-9 AWG 22, white with black stripe: 55A0712-22-90

1/ See Footer section on page 1

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