

TABLE I. CONSTRUCTION DETAILS										
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE					
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT			
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		(lbs/1000 ft.)			
55A8595- 2-*	2	665 x 30	.320	.340	.177	.405 ± .016	246.			
55A8595- 1-*	1	817 x 30	.360	.380	.144	.445 ± .016	314.			
55A8595- 0-*	0	1045 x 30	.395	.425	.113	.485 ± .016	421.			
55A8595-00-*	00	1330 x 30	.440	.475	.089	.545 ± .016	518.			
55A8595-000-*	000	1665 x 30	.500	.540	.071	.625 ± .022	625.			
55A8595-0000-*	0000	2109 x 30	.565	.605	.056	.690 ± .022	773.			

TABLE II. PERFORMANCE DETAILS								
	BEND TESTING							
PART NUMBER	MANDREL DIAM (inch) (± 3%		WEIGHT (lb) (± 3%)					
1/	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
55A8595- 2-*	6.00	8.00	6.00	15.0				
55A8595- 1-*	8.00	10.0	6.00	15.0				
55A8595- 0-*	8.00	10.0	6.00	15.0				
55A8595-00-*	10.0	12.0	8.00	20.0				
55A8595-000-*	10.0	12.0	8.00	20.0				
55A8595-0000-*	10.0	12.0	8.00	20.0				

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.						
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	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.		Fax: 1-650-361-6297			

Revision

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SCD Number

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms), at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 230 ± 3°C for 24 hours BRAID COLOR: Dark green preferred; munsell color limits 5Y 3/2 and 5B 2/0.5 CONCENTRICITY: 70% (minimum) FLAMMABILITY: Procedure 1, 3 seconds (maximum); 3 inches (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 3000 megohms for 1000 ft. (minimum) IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Tensile strength, 5000 lbf/in² (minimum) for primary insulation 5000 lbf/in² (minimum) for total insulation (primary insulation and jacket) Elongation, 75% (minimum) for total insulation (primary insulation and jacket) **INSULATION FLAWS:** Primary Insulation, Spark Test, 1.5 kV (rms) at 60 Hz 4.2 kV (rms) at 3 kHz Impulse DielectricTest, 6.0 kV (peak) Finished Wire, Spark Test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak) INSULATION RESISTANCE: 3000 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 ± 3°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 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.125 in. (maximum) VOLTAGE WITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz WICKING: 2.25 in. (maximum) WRAP TEST: 313 ± 3°C for 2 hours

PART NUMBER: The "*" in the part numbers on page 1 shall be replaced by a color code designator. 5D shall be used to designate dark green. <u>1</u>/ Example: AWG 2, dark green; 55A8595-2-5D AWG 2, white; 55A8595-2-9

1/ See footer section on page 1

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