

TABLE I. CONSTRUCTION DETAILS								
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE			
PART NUMBER <u>1</u> /					MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT	
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		(lbs/1000 ft.)	
55A0812-26-*	26	19 x 38	.018	.019	38.4	.040 ± .002	1.70	
55A0812-24-*	24	19 x 36	.023	.024	24.3	.045 ± .002	2.30	
55A0812-22-*	22	19 x 34	.029	.030	15.1	.050 ± .002	3.20	
55A0812-20-*	20	19 x 32	.037	.038	9.19	.058 ± .002	4.70	
55A0812-18-*	18	19 x 30	.046	.048	5.79	.070 ± .003	7.20	
55A0812-16-*	16	19 x 29	.052	.054	4.52	.077 ± .003	9.00	
55A0812-14-*	14	19 x 27	.065	.068	2.88	.094 ± .003	13.8	
55A0812-12-*	12	37 x 28	.084	.087	1.90	.111 ± .003	20.5	
55A0812-10-*	10	37 x 26	.106	.112	1.19	.134 ± .004	32.4	
55A0812-8-*	8	133 x 29	.158	.169	.658	.195 ± .008	61.9	
55A0812-6-*	6	133 x 27	.198	.213	.418	.241 ± .010	94.5	
55A0812-4-*	4	133 x 25	.250	.268	.264	.310 ± .010	158.	
55A0812-2-*	2	665 x 30	.320	.340	.170	.408 ± .012	249.	
55A0812-1-*	1	817 x 30	.360	.380	.139	.470 ± .012	329.	
55A0812-0-*	0	1045 x 30	.395	.425	.108	.510 ± .016	404.	
55A0812-00-*	00	1330 x 30	.440	.475	.085	.570 ± .016	500.	
55A0812-000-*	000	1665 x 30	.500	.540	.068	.610 ± .016	594.	
55A0812-0000-*	0000	2109 x 30	.565	.605	.054	.675 ± .022	746.	

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	1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPO		
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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.	connectivity	

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	TABLE I	I. PERFORMANCE	DETAILS		
PART NUMBER <u>1</u> /	MANDREL DIAMETI (inch) (± 3%)	ER	WEIGHT (lb) (± 3%)		
	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND	
55A0812-26-*	.375	1.00	.500	3.00	
55A0812-24-*	.500	1.00	.750	3.00	
55A0812-22-*	.500	1.00	1.00	3.00	
55A0812-20-*	.500	1.00	1.50	4.00	
55A0812-18-*	.750	1.50	2.00	4.00	
55A0812-16-*	1.00	1.50	2.00	5.00	
55A0812-14-*	1.00	2.00	3.00	5.00	
55A0812-12-*	1.50	2.00	3.00	5.00	
55A0812-10-*	2.00	3.00	3.00	5.00	
55A0812-8-*	3.00	4.00	4.00	6.00	
55A0812-6-*	4.00	5.00	4.00	10.0	
55A0812-4-*	5.00	6.00	4.00	10.0	
55A0812-2-*	6.00	8.00	6.00	15.0	
55A0812-1-*	8.00	10.0	6.00	15.0	
55A0812-0-*	8.00	10.0	6.00	15.0	
55A0812-00-*	10.0	12.0	8.00	20.0	
55A0812-000-*	10.0	12.0	8.00	20.0	
55A0812-0000-*	10.0	12.0	8.00	20.0	

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 COLOR: White preferred CONCENTRICITY: 70% (minimum) FLAMMABILITY: Procedure 1, 3 seconds (maximum), 3 inches (maximum); no flaming of facial tissue HUMIDITY RESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum), AWG 26-10 3000 megohms for 1000 ft. (minimum), AWG 8-0000 IDENTIFICATION, COLOR STRIPING, AND BAND DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: Elongation, 125% (minimum) for primary insulation, AWG 26-10 only 75% (minimum) for total insulation (primary insulation & jacket) Tensile Strength, 5000 lbf/in2 (minimum) for primary insulation 5000 lbf/in<sup>2</sup> (minimum) for total insulation (primary insulation & jacket) **INSULATION FLAWS:** 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), AWG 26-10 3000 megohms for 1000 ft. (minimum), AWG 8-0000 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 SOLDERABILITY (AWG 10 and smaller only): Per MIL-STD-202, Method 208, except without steam aging SURFACE RESISTANCE: 500 meghoms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum), AWG 26-12 0.100 in. (maximum), AWG 10-8 0.125 in. (maximum), AWG 6-0000 VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz WICKING: 2.25 in. (maximum) WRAP TEST: 313 ± 3°C for 2 hours 1/ PART NUMBER: The "\*" in the part numbers in Tables I and II shall be replaced by a color code designator. Example: AWG 22, white: 55A0812-22-9 AWG 22, white with a black stripe: 55A0812-22-90

1/ See footer section on page 1

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