

	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
PART NUMBER <u>1</u> /					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (Ibs/1000_ft.)
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	· · /	(ibs/1000 it.)
55A0111-30-*	30	7 x 38	.011	.013	108.4	.024 ± .002	.66
55A0111-28-*	28	7 x 36	.014	.016	68.6	.027 ± .002	.91
55A0111-26-*	26	19 x 38	.018	.020	41.3	.032 ± .002	1.4
55A0111-24-*	24	19 x 36	.023	.025	26.2	.037 ± .002	2.0
55A0111-22-*	22	19 x 34	.029	.031	16.2	.043 ± .002	2.8
55A0111-20-*	20	19 x 32	.037	.039	9.88	.050 ± .002	4.3
55A0111-18-*	18	19 x 30	.046	.049	6.23	.060 ± .002	6.5
55A0111-16-*	16	19 x 29	.052	.055	4.81	.068 ± .002	8.3
55A0111-14-*	14	19 x 27	.065	.069	3.06	.085 ± .003	13.0
55A0111-12-*	12	37 x 28	.084	.089	2.02	.103 ± .003	19.7
55A0111-10-*	10	37 x 26	.106	.113	1.26	.128 ± .006	31.8
55A0111- 8-*	8	133 x 29	.158	.173	.701	.188 ± .008	58.8

		TABLE	II. PERFORMANCE DE	TAILS					
		BEND TESTING							
PAR	PART NUMBER <u>1</u> /	MANDREL DI/ (inch) (±		WEIGHT (lb) (± 3%)					
1741		IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND				
55/	A0111-30-*	.250	.375	.125	.500				
557	A0111-28-*	.250	.375	.125	.500				
557	A0111-26-*	.375	.500	.125	.500				
557	A0111-24-*	.375	.500	.250	1.00				
55/	A0111-22-*	.500	.750	.375	1.00				
557	A0111-20-*	.500	.750	.500	1.00				
557	A0111-18-*	.500	1.00	.500	1.00				
557	A0111-16-*	.750	1.00	.750	1.00				
55A0111-14-*		1.00	1.50	1.00	3.00				
55A0111-12-*		1.50	2.00	1.50	3.00				
55A0111-10-*		2.00	3.00	1.50	3.00				
55/	A0111- 8-*	3.00	4.00	4.00	6.00				
TE Connecti	Users should e ivity also reserves th	valuate the suitability of this product the right to make changes in materials	for their application. Specification of processing, which do not	ations are subject to change withou affect compliance with any specifica	t notice. ation, without notification to Buyer.				
<u>1</u> /COLORS AND SUFF	AND COLOR CODE DI FIXES MAY BE ADDED	ESIGNATORS SHALL BE IN ACCORDAN) TO THE PART NUMBER, AS NECESSA THE PURCHASE ORDER.	ICE WITH MIL-STD-681. OTHER	RCODES	TF Connectivity				
	DIMENS	IONS ARE IN INCHES, AND UNLESS OT		Redwood City, CA 94063					
ige 1 of 2		ATION SHEET TAKES PRECEDENCE CUMENTS SHALL BE OF THE ISSUE		ctivity Phone: 1-800-227-8816 Fax: 1-650-361-6297					



R

55A0111

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C, Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING (CROSSLINKING PROOF): 300 ± 3°C for 7 hours BLOCKING: 200 ± 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 meachms for 1000 ft. (minimum) for AWG 30 - 10 3000 megohms for 1000 ft. (minimum) for AWG 8 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, 75% (minimum) Tensile strength, 5000 lbf/in² (minimum) INSULATION FLAWS: Spark test, 5.7 kV (rms) at 3 kHz Impulse DielectricTest, 8.0 kV (peak) INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum) for AWG 30 - 10 3000 megohms for 1000 ft. (minimum) for AWG 8 INSULATION THICKNESS: 0.005 in. (minimum) LIFE CYCLE: 200 ± 3°C for 500 hours LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours SHRINKAGE: 200 ± 3°C, for 6 hours, 0.125 in. (maximum) in 12 in. SOLDERABILITY: Per MIL-STD-202, Method 208, without steam aging N/A for AWG 10 and 8 SMOKE TEST: 200 ± 2°C. No visible smoke SURFACE RESISTANCE: 500 megohms-in. (minimum), both readings THERMAL SHOCK RESISTANCE: 150 ± 3°C, 0.060 in. (maximum) VOLTAGE WITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz WRAP TEST: 200 ± 3°C for 2 hours

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: 55A0111-22-9 AWG 22, white with black stripe: 55A0111-22-90

1/ See footer section on page 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: 55A0111-22-4