

		TAE	LE I. CONSTR	RUCTION DET	AILS		
				TER 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 (Ibs/1000 ft.)
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		, , , , , , , , , , , , , , , , , , ,
82A0111-28-*	28	42 x 44	.013	.017	71.4	.029 ± .003	1.0
82A0111-26-*	26	63 x 44	.017	.021	43.5	.033 ± .003	1.4
82A0111-24-*	24	105 x 44	.023	.027	28.2	.037 ± .003	2.1
82A0111-22-*	22	154 x 44	.029	.033	19.2	.043 ± .003	2.9
82A0111-20-*	20	154 x 42	.037	.043	11.7	.053 ± .004	4.2
82A0111-18-*	18	259 x 42	.047	.053	7.14	.064 ± .004	6.7
82A0111-16-*	16	259 x 40	.061	.067	4.53	.079 ± .004	10.2
82A0111-14-*	14	665 x 42	.078	.086	2.96	.099 ± .005	16.5
82A0111-12-*	12	665 x 40	.096	.106	1.89	.121 ± .006	24.8
82A0111-10-*	10	665 x 38	.126	.140	1.12	.157 ± .009	42.2
82A0111-8-*	8	665 x 36	.157	.173	.714	.195 ± .010	66.3
82A0111-6-*	6	1045 x 36	.192	.208	.490	.236 ± .011	102.
82A0111-4-*	4	1665 x 36	.265	.285	.326	.318 ± .013	169.
82A0111-2-*	2	1665 x 34	.325	.345	.204	.385 ± .014	252.
82A0111-1-*	1	2109 x 34	.370	.400	.163	.445 ± .019	317.
82A0111-0-*	0	2660 x 34	.435	.465	.133	.516 ± .020	407.
82A0111-00-*	00	3325 x 34	.485	.515	.102	.566 ± .020	502.
82A0111-000-*	000	4123 x 34	.540	.575	.087	.628 ± .020	619.
82A0111-0000-*	0000	5320 x 34	.615	.655	.066	.711 ± .020	795.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. TE Connectivity 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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	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL.				
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.				



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	TABLE II. PERFORMANCE DETA				
	BEND TESTING				
PART NUMBER		WEIGHT (lbs) (± 3%)			
<u>1</u> /	(inch) (± 3%)				
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST			
32A0111-28-*	.250	.125			
32A0111-26-*	.375	.125			
32A0111-24-*	.375	.250			
32A0111-22-*	.500	.375			
32A0111-20-*	.500	.500			
32A0111-18-*	.500	.500			
32A0111-16-*	.750	.750			
32A0111-14-*	1.00	1.00			
32A0111-12-*	1.50	1.50			
32A0111-10-*	2.00	1.50			
32A0111-8-*	3.00	2.00			
32A0111-6-*	3.00	2.00			
32A0111-4-*	4.00	2.50			
32A0111-2-*	6.00	3.00			
32A0111-1-*	8.00	4.00			
32A0111-0-*	8.00	4.00			
32A0111-00-*	8.00	4.00			
32A0111-000-*	8.00	4.00			
32A0111-0000-*	8.00	4.00			

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level COLOR: White preferred CONCENTRICITY: 70% (minimum) CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 gram weight INSULATION ELONGATION AND TENSILE STRENGTH: AWG 28-26: Elongation, 75% (minimum) Tensile Strength, 3000 lbf/in<sup>2</sup> (minimum) AWG 24-10: Elongation, 75% (minimum) Tensile Strength, 3500 lbf/in2 (minimum) AWG 8-0000: Elongation, 125% (minimum) Tensile Strength, 3000 lbf/in<sup>2</sup> (minimum) **INSULATION FLAWS:** Spark Test, 1.5 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak)

INSULATION THICKNESS: AWG 28-16: 0.004 in. (minimum) AWG 14-10: 0.006 in. (minimum) AWG 8-0000: 0.012 in. (minimum) SECANT MODULUS (Test per ASTM D 882): AWG 28-10: 5.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (maximum) AWG 8-0000: 4.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (maximum) 2% strain, 2 inch jaw separation, 0.2 inch/minute SHRINKAGE: 150 ± 3°C for 6 hours AWG 28-10: 0.13 in. (maximum) in 12 inches AWG 8-0000: 0.25 in. (maximum) in 12 inches VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz 1/ PART NUMBER: The "\*" in the part numbers on pages 1 and 2 shall be replaced by a

color code designator.

Example: AWG 12, white; 82A0111-12-9

AWG 12, white with a black stripe; 82A0111-12-90