

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.	

Tyco Electronics	Users should evaluate the suitability of this product for their application. Specifications are subjec Corporation also reserves the right to make changes in materials or processing, which do not affect compliar		
	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		
Page 1 of 2	Raychem, TE Connectivity, TE Connectivity (logo), and TE (logo) are trademarks.		Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297
	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL.		
	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	

© 2008-2017 Tyco Electronics Corporation. All rights reserved.



SCD

	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

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Hook-up Wire category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

M81044/12-22-6 M81044/9-8-9 CV5509-000 743094-001 81044/12-18-9CS3209 8538-009-1000 BFWUL3239-24-PINK 22759/34-16-9CS2621 22759/42-24-9CS2620 933205-000 284711-000 961473-000 99M0111-20-2 A00594-000 190571-000 22759/41-12-9CS2620 22759/41-16-9CS2620 22759/43-10-9CS2873 265925-000 CM9524-000 31510-010-250 31514-009-500 34430-010-250 M81044/9-4-9 391441-BK007 400R0111-10-9 431660-000 ATFC0311-20-0 ATFC0311-20-3 44/7024-26-9-9 44A0112-22-9CS3184 456157-000 55/0312-26-6L-CS2570 31514-010-4000 55A0811-12-9 55A6087-20-9-9-9 55A6315-22-9-9CS2632 55A7400-22-9/96-9CS2275 55A9002-30-5 55PC0211-20-5CS2502 55PC0811-6-9CS2637 55PC1211-22-9-9CS3278 C07683-000 32820-009-5000 34020-008-2000 34406-010-1000 358838-000 391850-BK199 392075-RD199 W28-6HU