

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

SPECIFICATION CONTROL DRAWING

SCD

55A0811

Title WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED,
NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT

Date 4-27-15

Revision Z

This specification sheet forms a part of the latest issue of Raychem Specification 55A.

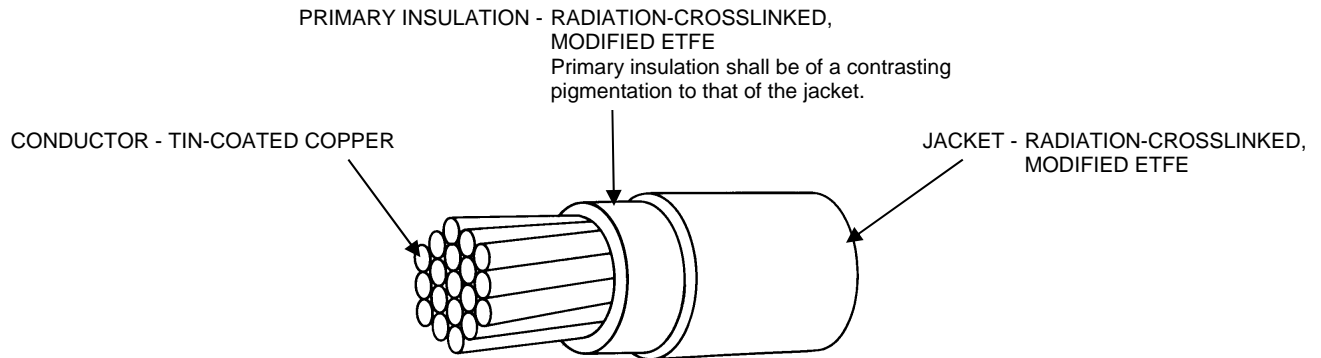


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inch)	MAXIMUM WEIGHT (lbs/1000 ft.)
55A0811-28-*	28	7 x 36	.014	.016	68.6	.035 ± .002	1.3
55A0811-26-*	26	19 x 38	.018	.020	41.3	.040 ± .002	1.7
55A0811-24-*	24	19 x 36	.023	.025	26.2	.045 ± .002	2.3
55A0811-22-*	22	19 x 34	.029	.031	16.2	.050 ± .002	3.2
55A0811-20-*	20	19 x 32	.037	.039	9.88	.058 ± .002	4.7
55A0811-18-*	18	19 x 30	.046	.049	6.23	.070 ± .003	7.2
55A0811-16-*	16	19 x 29	.052	.055	4.81	.077 ± .003	9.0
55A0811-14-*	14	19 x 27	.065	.069	3.06	.094 ± .003	13.8
55A0811-12-*	12	37 x 28	.084	.089	2.02	.111 ± .003	20.5
55A0811-10-*	10	37 x 26	.106	.113	1.26	.134 ± .004	32.4
55A0811-8-*	8	133 x 29	.158	.173	.701	.195 ± .008	60.3
55A0811-6-*	6	133 x 27	.198	.217	.445	.241 ± .010	94.5
55A0811-4-*	4	133 x 25	.250	.274	.280	.310 ± .010	150.
55A0811-2-*	2	665 x 30	.320	.340	.183	.408 ± .012	249.
55A0811-1-*	1	817 x 30	.360	.380	.149	.470 ± .012	325.
55A0811-0-*	0	1045 x 30	.395	.425	.116	.510 ± .016	383.
55A0811-00-*	00	1330 x 30	.440	.475	.091	.570 ± .016	500.
55A0811-000-*	000	1665 x 30	.500	.540	.071	.610 ± .016	596.
55A0811-0000-*	0000	2109 x 30	.565	.605	.056	.675 ± .022	753.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics 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.

Raychem, TE Connectivity, TE Connectivity (logo), and TE (logo) are trademarks.

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.



Raychem Wire & Cable
501 Oakside Avenue
Redwood City, CA 94063-3800
Phone: 1-800-227-8816
Fax: 1-650-361-6297

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION, AND ACCELERATED AGING	COLD BEND
55A0811-28-*	.375	.750	.250	2.00
55A0811-26-*	.375	1.00	.500	3.00
55A0811-24-*	.500	1.00	.750	3.00
55A0811-22-*	.500	1.00	1.00	3.00
55A0811-20-*	.500	1.00	1.50	4.00
55A0811-18-*	.750	1.50	2.00	4.00
55A0811-16-*	1.00	1.50	2.00	5.00
55A0811-14-*	1.00	2.00	3.00	5.00
55A0811-12-*	1.50	2.00	3.00	5.00
55A0811-10-*	2.00	3.00	3.00	5.00
55A0811-8-*	3.00	4.00	4.00	6.00
55A0811-6-*	4.00	5.00	4.00	10.0
55A0811-4-*	5.00	6.00	4.00	10.0
55A0811-2-*	6.00	8.00	6.00	15.0
55A0811-1-*	8.00	10.0	6.00	15.0
55A0811-0-*	8.00	10.0	6.00	15.0
55A0811-00-*	10.0	12.0	8.00	20.0
55A0811-000-*	10.0	12.0	8.00	20.0
55A0811-0000-*	10.0	12.0	8.00	20.0

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 inches (maximum);

no flaming of facial tissue

HUMIDITY RESISTANCE: Insulation Resistance,

5000 megohms for 1000 ft. (minimum), AWG 28-10

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 28-10 only

75% (minimum) for total insulation (primary insulation & jacket)

Tensile Strength,

5000 lbf/in² (minimum) for primary insulation

5000 lbf/in² (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 28-10

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: 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 inches

SMOKE TEST: 200 ± 2°C, no visible smoke

SOLDERABILITY (AWG 10 and smaller only):

Per MIL-STD-202, Method 208, except without steam aging

SURFACE RESISTANCE:

500 megohms-in. (minimum), both readings

THERMAL SHOCK RESISTANCE: 150 ± 3°C,

0.060 in. (maximum), AWG 28-12

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: 200 ± 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: 55A0811-22-9

AWG 22, white with a black stripe: 55A0811-22-90

1/ See footer section on page 1