

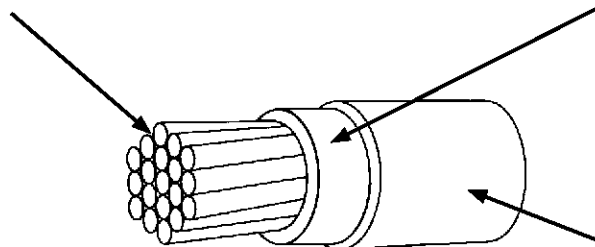
SPECIFICATION CONTROL DRAWING

55A0812

TITLE	WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT	Date	25APR11	Revision	U1
This specification sheet forms a part of the latest issue of Raychem Specification 55A.					

CONDUCTOR - SILVER-COATED COPPER

PRIMARY INSULATION - RADIATION-CROSSLINKED,
MODIFIED ETFE
Primary insulation shall be of a
contrasting pigmentation to that
of the jacket.



JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
			MINIMUM	MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
55A0812-26-*	26	19 x 38	.018	.019	38.4	.040 ± .002	1.7
55A0812-24-*	24	19 x 36	.023	.025	24.3	.045 ± .002	2.3
55A0812-22-*	22	19 x 34	.029	.031	15.1	.050 ± .002	3.2
55A0812-20-*	20	19 x 32	.037	.039	9.19	.058 ± .002	4.7
55A0812-18-*	18	19 x 30	.046	.048	5.79	.070 ± .003	7.2
55A0812-16-*	16	19 x 29	.052	.054	4.52	.077 ± .003	9.0
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.

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

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 DETAILS				
PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE 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:**Tensile strength, 5000 lbf/in² (minimum) for primary insulation5000 lbf/in² (minimum) for total insulation (primary insulation and jacket)

Elongation, 125% (minimum) for primary insulation, AWG 26 - 10 only

75% (minimum) for total insulation (primary insulation and 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:** Per MIL-STD-202, Method 208, except without steam aging (for 10 AWG and smaller only).**SURFACE RESISTANCE:** 500 megohms-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 TEST (Post Environmental): 2500 volts (rms), 60 Hz**WICKING:** 2.25 in. (maximum)**WRAP TEST:** 313 ± 3°C for 2 hours**PART NUMBER:**

The "*" in the part numbers on pages 1 and 2 shall be replaced by a color code designator.

1/ Example: AWG 22, white; 55A0812-22-9

AWG 22, white with a black stripe; 55A0812-22-90

1/ See footer section on page 1

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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