

SPECIFICATION CONTROL DRAWING		82A0113	
TITLE	WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	Date	2-16-11
		Revision	F
This specification sheet forms a part of the latest issue of Raychem Specification 80.			

CONDUCTOR - NICKEL-COATED COPPER

INSULATION - RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE

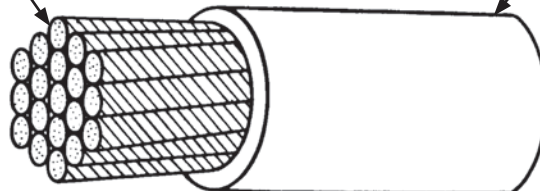


TABLE I. CONSTRUCTION DETAILS

PART NUMBER <u>1/</u>	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.)
82A0113-24-*	24	105 x 44	.023	.027	30.6	.037 ± .003	2.1
82A0113-22-*	22	154 x 44	.029	.033	21.9	.043 ± .003	2.9
82A0113-20-*	20	154 x 42	.037	.043	13.3	.053 ± .004	4.3
82A0113-18-*	18	259 x 42	.047	.053	8.67	.064 ± .004	6.8
82A0113-16-*	16	259 x 40	.061	.067	5.10	.079 ± .004	10.2
82A0113-14-*	14	665 x 42	.078	.086	3.32	.099 ± .005	16.8
82A0113-12-*	12	665 x 40	.096	.106	1.99	.121 ± .006	24.8
82A0113-10-*	10	665 x 38	.126	.140	1.14	.157 ± .009	42.2
82A0113-8-*	8	665 x 36	.157	.173	.714	.195 ± .010	66.1
82A0113-6-*	6	1045 x 36	.192	.208	.490	.236 ± .011	102.
82A0113-4-*	4	1665 x 36	.265	.285	.326	.318 ± .013	169.
82A0113-2-*	2	1665 x 34	.325	.345	.204	.385 ± .014	254.
82A0113-0-*	0	2660 x 34	.435	.465	.133	.516 ± .020	408.
82A0113-00-*	00	3325 x 34	.485	.515	.102	.566 ± .020	503.

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.

Page 1 of 2	The TE logo, Tyco Electronics and Raychem are trademarks.		Raychem Wire & Cable 501 Oaks Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 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.		

TABLE II. PERFORMANCE DETAILS		
PART NUMBER <u>1/</u>	BEND TESTING	
	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST
82A0113-24-*	.375	.250
82A0113-22-*	.500	.375
82A0113-20-*	.500	.500
82A0113-18-*	.500	.500
82A0113-16-*	.750	.750
82A0113-14-*	1.00	1.00
82A0113-12-*	1.50	1.50
82A0113-10-*	2.00	1.50
82A0113-8-*	3.00	2.00
82A0113-6-*	3.00	2.00
82A0113-4-*	4.00	2.50
82A0113-2-*	6.00	3.00
82A0113-0-*	8.00	4.00
82A0113-00-*	8.00	4.00

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 24-10: Elongation, 75% (minimum)

Tensile Strength, 3500 lbf/in² (minimum)

AWG 8-00: Elongation, 125% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 1.5 kV (rms) at 3 kHz

Impulse Dielectric Test, 6.0 kV (peak)

INSULATION THICKNESS:

AWG 24-16: .004 in. (minimum)

AWG 14-10: .006 in. (minimum)

AWG 8-00: .012 in. (minimum)

PRODUCT IDENTIFICATION: AWG 24-10, black ink only

AWG 8-00, black ink preferred

SECANT MODULUS: (Test per ASTM D 882)

AWG 24-10: 5.0 x 10⁴ lbf/in² (maximum)

AWG 8-00: 4.0 x 10⁴ lbf/in² (maximum)

2% strain, 2 inch jaw separation, 0.2 inch/minute

SHRINKAGE: 200 ± 3°C for 6 hours,

AWG 24-10: 0.13 in. (maximum) in 12 inches

AWG 8-00: 0.25 in. (maximum) in 12 inches

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz

PART NUMBER:

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

1/ Example: AWG 12, white; 82A0113-12-9

AWG 12, white with a black stripe; 82A0113-12-90

1/ See footer section on page 1

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

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<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.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9