SPECIFICATION CONTROL DRAWING

44A0111

TITLE	Date	Revision
WIRE, ELECTRIC, RADIATION-CROSSLINKED, TIN-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT	24MAR11	P1

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-W-81044 as applicable.

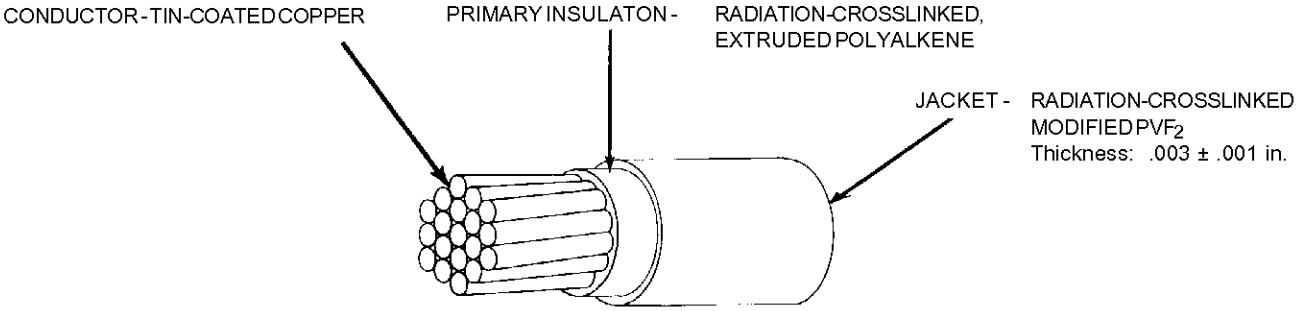

TABLE I. CONSTRUCTION DETAILS

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.)
44A0111-26-*	26	19 x 38	.018	.021	41.3	.034 ± .002	1.4
44A0111-24-*	24	19 x 36	.023	.026	26.2	.040 ± .002	2.0
44A0111-22-*	22	19 x 34	.029	.033	16.2	.047 ± .002	3.0
44A0111-20-*	20	19 x 32	.037	.041	9.88	.055 ± .002	4.5
44A0111-18-*	18	19 x 30	.046	.051	6.23	.065 ± .002	6.8
44A0111-16-*	16	19 x 29	.052	.058	4.81	.072 ± .003	8.6
44A0111-14-*	14	19 x 27	.065	.073	3.06	.089 ± .004	13.2
44A0111-12-*	12	37 x 28	.084	.090	2.02	.108 ± .004	20.2
44A0111-10-*	10	37 x 26	.106	.114	1.26	.129 ± .004	31.1

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A0111-26-*	.500	.500	.250	.250	.500
44A0111-24-*	.500	.500	.250	.375	.500
44A0111-22-*	.750	.750	.250	.375	1.00
44A0111-20-*	.750	.750	.250	.375	1.00
44A0111-18-*	1.00	1.00	.375	.500	1.00
44A0111-16-*	1.00	1.00	.375	.500	1.00
44A0111-14-*	1.50	1.50	.500	1.00	3.00
44A0111-12-*	2.00	2.00	.500	1.00	3.00
44A0111-10-*	2.50	2.50	.500	1.00	3.00

Users should evaluate the suitability of this product for their application. Specifications are subject to change without
TE Connectivity *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.

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.

TE CONNECTIVITY

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C,
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms) at sea level
ACCELERATED AGING: 300 ± 2°C for 6 hours
Identification legibility, 225 ± 2°C for 6 hours
BLOCKING: 150 ± 2°C for 24 hours
COLOR: white preferred
FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);
no flaming of facial tissue
HUMIDITY RESISTANCE: Insulation Resistance,
5000 Megohms for 1000 ft. (minimum)
IDENTIFICATION, STRIPING, OR 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:
Primary Insulation,
Tensile Strength, 2500 lbf/in² (minimum)
Elongation, 150% (minimum)
INSULATION FLAWS:
Primary Insulation,
Spark test, 1.5 kV (rms), at 60 Hz
High Frequency Spark Test: 4.2 kV (rms) at 3.0 kHz
Impulse Dielectric test, 6.0 kV (peak)
Finished Wire,
High Frequency Spark Test: 5.7 kV (rms) at 3.0 kHz
Impulse Dielectric test, 8.0 kV (peak)
INSULATION RESISTANCE: 5000 Megohms for 1000 ft. (minimum)
LIFE CYCLE: 200 ± 2°C for 168 hours
LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
SHRINKAGE: 300 ± 2°C, 0.125 in. (maximum) in 12 in.
SMOKE TEST: 200 ± 2°C. No visible smoke
SOLDERABILITY (95% minimum coverage): per MIL-STD-202,
Method 208, except without steam-aging, Type RMA Flux
SURFACE RESISTANCE: 500 Megohms-in. (minimum), both readings
THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 in. (maximum)
VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
2500 volts (rms), 60 Hz, 5 minutes
WICKING: 2.25 in. (maximum)

PART NUMBER:
The "*" in the part numbers on page 1 shall be replaced by a color code designator.
1/ Example: AWG 20, white: 44A0111-20-9

1/ See Footer section on page 1

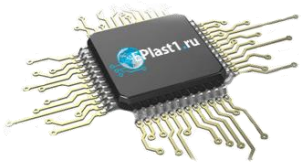
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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