

# SPECIFICATION CONTROL DRAWING

## 44A122X

TITLE TWO CONDUCTOR CABLE, SHIELDED, JACKETED,  
GENERAL PURPOSE, 1000 VOLT

Date 1-9-06

Revision D

This specification sheet forms a part of the latest issue of Raychem Specification 44.

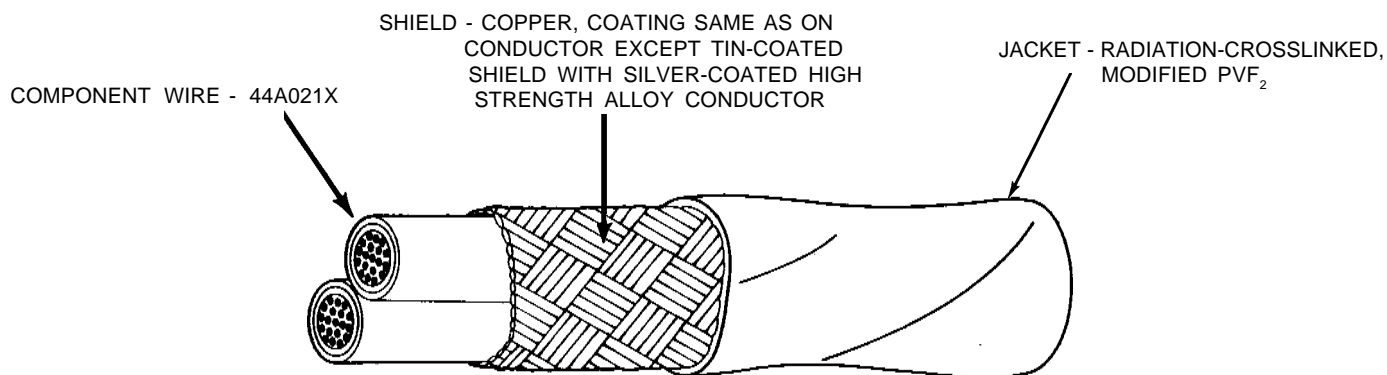


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A122X-26-*	26	36	.006	.008	.118	.124	10.3
44A122X-24-*	24	36	.006	.008	.130	.136	12.9
44A122X-22-*	22	36	.006	.008	.146	.152	16.2
44A122X-20-*	20	36	.006	.008	.162	.169	20.7
44A122X-18-*	18	36	.007	.009	.186	.193	27.9
44A122X-16-*	16	36	.007	.009	.202	.210	33.4
44A122X-14-*	14	36	.007	.009	.236	.244	45.9
44A122X-12-*	12	36	.008	.010	.276	.286	64.3
44A122X-10-*	10	36	.008	.010	.334	.351	96.3
44A122X- 8-*	8	36	.010	.012	.458	.481	161.
44A122X- 6-*	6	34	.010	.012	.558	.586	247.
44A122X- 4-*	4	34	.013	.015	.672	.705	377.

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND
44A122X-26-*	3.00	3.00	.375	3.00
44A122X-24-*	6.00	6.00	.375	6.00
44A122X-22-*	6.00	6.00	.375	6.00
44A122X-20-*	6.00	6.00	.500	9.00
44A122X-18-*	6.00	6.00	.500	9.00
44A122X-16-*	6.00	6.00	1.00	12.0
44A122X-14-*	6.00	6.00	1.00	12.0
44A122X-12-*	10.0	10.0	1.50	12.0
44A122X-10-*	10.0	10.0	2.00	12.0
44A122X- 8-*	18.0	18.0	3.00	15.0
44A122X- 6-*	18.0	18.0	3.00	24.0
44A122X- 4-*	18.0	18.0	3.00	24.0

NOTE: Nominal values are for information only.  
Nominal values are not requirements.

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. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx"). 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.



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CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 1000 volts (rms) at sea level

ACCELERATED AGING: 300 ± 3°C for 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 3000 volts (rms), 60 Hz, 1 minute

FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown

JACKET COLOR: White preferred

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST (Post Environmental): 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designator as follows:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high strength copper alloy (AWG's 26-16 only)
- 6 nickel-coated high strength copper alloy (AWG's 26-20 only)

The "\*" in the part numbers on page 1 shall be replaced by color code designators with a dash separating the component wire color from the jacket color.

1/ Example: AWG 20, tin-coated copper, black and brown component wires;  
white jacket: 44A1221-20-0/1-9

1/ see footer section on page 1

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[44A1221-4-9/96-9](#) [44A1221-12-9/9-9CS3030](#) [44A1221-16-0/2-9CS3030](#) [44A1221-14-0/9-9](#) [44A1221-22-0/9-9](#)



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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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