

# SPECIFICATION CONTROL DRAWING

**44AM416X**

TITLE	SIX CONDUCTOR CABLE, JACKETED, GENERAL PURPOSE, 600 VOLT	Date	10-28-06	Revision	B
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This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable.

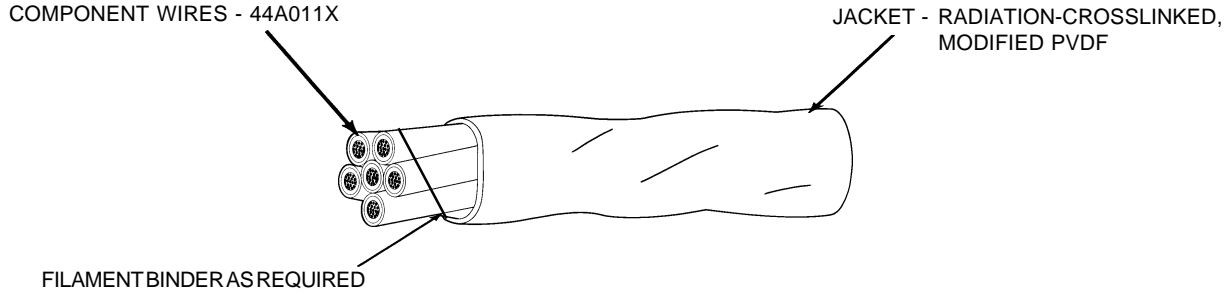


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER <sup>1/</sup>	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AM416X-26-*	26	.005	.010	.118	.124	11.2
44AM416X-24-*	24	.005	.010	.136	.142	15.9
44AM416X-22-*	22	.005	.010	.157	.164	22.5
44AM416X-20-*	20	.006	.012	.183	.190	32.9
44AM416X-18-*	18	.006	.012	.213	.221	48.3
44AM416X-16-*	16	.007	.014	.234	.242	61.2
44AM416X-14-*	14	.007	.014	.287	.297	93.4
44AM416X-12-*	12	.007	.014	.344	.361	143.

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER <sup>1/</sup>	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND
44AM416X-26-*	3.00	3.00	.750	4.50
44AM416X-24-*	6.00	6.00	1.25	4.50
44AM416X-22-*	6.00	6.00	1.25	9.00
44AM416X-20-*	6.00	6.00	1.25	9.00
44AM416X-18-*	6.00	6.00	1.50	9.00
44AM416X-16-*	6.00	6.00	1.50	9.00
44AM416X-14-*	10.0	10.0	3.00	27.0
44AM416X-12-*	10.0	10.0	3.00	27.0

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.

<sup>1/</sup> 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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**WIRE RATINGS AND ADDITIONAL REQUIREMENTS**

TEMPERATURE RATING: 150°C;

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 150 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 200 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,

15 seconds (minimum), 30 seconds (maximum)

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)

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

**PART NUMBER**

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designators 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 slash separating the component wire colors and a dash separating the component wire colors from the jacket color. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: 20 Awg, tin-coated copper wires, black, brown, red, orange, yellow and green component wires; white jacket: 44AM4161-20-0/1/2/3/4/5-9

1/ See footer section on page 1

# Mouser Electronics

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- 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;
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- 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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