

SPECIFICATION CONTROL DRAWING

44AM412X

TITLE TWO CONDUCTOR CABLE, JACKETED, GENERAL PURPOSE, 600 VOLT

Date 10-15-06

Revision B

This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable.

COMPONENT WIRES - 44A011X

JACKET - RADIATION-CROSSLINKED,
MODIFIED PVDF



TABLE I. CABLE CONSTRUCTION DETAILS

| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000 ft) |
|-------------------|----------------------------|---------------------------|---------|---------------------------|---------|-----------------------------------|
| | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 44AM412X-26-* | 26 | .005 | .010 | .084 | .090 | 4.7 |
| 44AM412X-24-* | 24 | .005 | .010 | .096 | .102 | 6.4 |
| 44AM412X-22-* | 22 | .005 | .010 | .110 | .117 | 8.7 |
| 44AM412X-20-* | 20 | .005 | .010 | .126 | .133 | 12.1 |
| 44AM412X-18-* | 18 | .005 | .010 | .146 | .153 | 17.5 |
| 44AM412X-16-* | 16 | .005 | .010 | .160 | .168 | 21.7 |
| 44AM412X-14-* | 14 | .006 | .012 | .196 | .204 | 33.4 |
| 44AM412X-12-* | 12 | .007 | .014 | .234 | .243 | 51.0 |

TABLE II. CABLE PERFORMANCE DETAILS

| PART NUMBER 1/ | BEND TESTING | | | |
|-------------------|---|--------------|---|--------------|
| | MANDREL DIAMETER (inch) (± 3%) | | WEIGHT (lb) (± 3%) | |
| | IMMERSION AND CROSSLINKED VERIFICATION | COLD BEND | IMMERSION AND CROSSLINKED VERIFICATION | COLD BEND |
| 44AM412X-26-* | 3.00 | 3.00 | .250 | 1.50 |
| 44AM412X-24-* | 3.00 | 3.00 | .375 | 1.50 |
| 44AM412X-22-* | 3.00 | 3.00 | .375 | 3.00 |
| 44AM412X-20-* | 6.00 | 6.00 | .375 | 3.00 |
| 44AM412X-18-* | 6.00 | 6.00 | .500 | 3.00 |
| 44AM412X-16-* | 6.00 | 6.00 | .500 | 3.00 |
| 44AM412X-14-* | 6.00 | 6.00 | 1.00 | 9.00 |
| 44AM412X-12-* | 6.00 | 6.00 | 1.00 | 9.00 |

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.

Page 1 of 2

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.

tyco
Electronics

Raychem Wire & Cable
501 Oakside Avenue
Redwood City, CA 94063-3800
Phone: 1-800-227-8816
Fax: 1-650-361-6297

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

CROSSLINK 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/in² (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.

1/ Example: 20 Awg, tin-coated copper wires, black and brown component wires; white jacket:
44AM4121-20-0/1-9

1/ See footer section on page 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[44AM4121-26-9/96-9CS2275](#) [44AM4121-20-9/96-9CS2275](#) [44AM4121-22-9/96-9CS2275](#) [44AM4121-24-9/96-9CS2275](#) [44AM4121-14-9/96-9CS2275](#) [44AM4121-18-9/96-9CS2275](#)



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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.