

# SPECIFICATION CONTROL DRAWING

**44A114X**

TITLE CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, FOUR CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT, GENERAL PURPOSE

Date 28-Mar-11

Revision F1

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

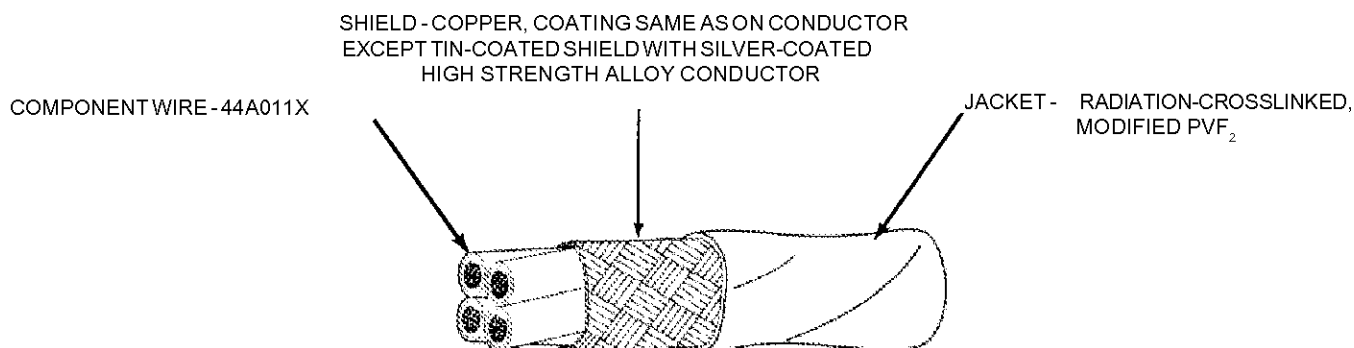


TABLE I. CABLE CONSTRUCTION DETAILS

| PART NUMBER<br>1/ | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(in.) |         | OUTSIDE DIAMETER<br>(in.) |         | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |
|-------------------|----------------------------|-------------------------|---------------------------|---------|---------------------------|---------|-------------------------------------|
|                   |                            |                         | MINIMUM                   | NOMINAL | NOMINAL                   | MAXIMUM |                                     |
| 44A114X-26*       | 26                         | 36                      | .006                      | .008    | .119                      | .137    | 14.0                                |
| 44A114X-24*       | 24                         | 36                      | .006                      | .008    | .134                      | .154    | 17.6                                |
| 44A114X-22*       | 22                         | 36                      | .006                      | .008    | .151                      | .175    | 23.1                                |
| 44A114X-20*       | 20                         | 36                      | .007                      | .009    | .172                      | .200    | 31.4                                |
| 44A114X-18*       | 18                         | 36                      | .007                      | .009    | .196                      | .229    | 42.9                                |
| 44A114X-16*       | 16                         | 36                      | .007                      | .009    | .213                      | .249    | 51.7                                |
| 44A114X-14*       | 14                         | 36                      | .007                      | .009    | .254                      | .298    | 74.1                                |
| 44A114X-12*       | 12                         | 36                      | .008                      | .010    | .302                      | .355    | 108.                                |

TABLE II. CABLE PERFORMANCE DETAILS

| PARTNUMBER<br>1/ | BEND TESTING                                   |              |                                                |              |
|------------------|------------------------------------------------|--------------|------------------------------------------------|--------------|
|                  | MANDREL DIAMETER<br>(inch) (± 3%)              |              | WEIGHT<br>(lb) (± 3%)                          |              |
|                  | LIFE CYCLE, IMMERSION AND<br>ACCELERATED AGING | COLD<br>BEND | LIFE CYCLE, IMMERSION AND<br>ACCELERATED AGING | COLD<br>BEND |
|                  |                                                |              |                                                |              |
| 44A114X-26*      | 3.00                                           | 3.00         | .500                                           | 3.00         |
| 44A114X-24*      | 6.00                                           | 6.00         | .750                                           | 3.00         |
| 44A114X-22*      | 6.00                                           | 6.00         | .750                                           | 6.00         |
| 44A114X-20*      | 6.00                                           | 6.00         | .750                                           | 6.00         |
| 44A114X-18*      | 6.00                                           | 6.00         | 1.00                                           | 6.00         |
| 44A114X-16*      | 6.00                                           | 6.00         | 1.00                                           | 6.00         |
| 44A114X-14*      | 10.0                                           | 10.0         | 2.00                                           | 18.0         |
| 44A114X-12*      | 10.0                                           | 10.0         | 2.00                                           | 18.0         |

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.  
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. 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: 600 volts (rms) at sea level

ACCELERATED AGING: 300 ± 3°C for 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 2500 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
- 6 nickel-coated high strength copper alloy

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.

Components are not necessarily shown in sequence of manufacturing.

1/ Example: AWG 20, tin-coated copper, black, brown, red and orange component wires; white jacket: 44A1141-20-0/1/2/3-9

1/ see footer section on page 1

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<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.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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