

SPECIFICATION CONTROL DRAWING

44A9710TITLE TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE,
DOUBLE SHIELDED, JACKETED

Date 10-9-04

Revision A

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

COMPONENT WIRES -
1 of WTC-0013 (CHROMEL®)
1 of WTC-0014 (ALUMEL®)

SHIELDS - TIN-COATED COPPER

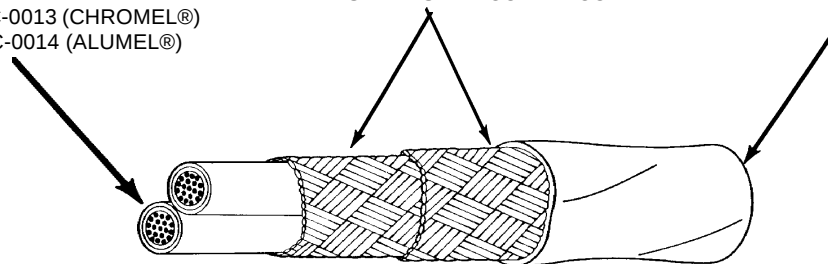
JACKET - RADIATION-CROSSLINKED
MODIFIED PVF₂

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lbs/1000 ft.)
				MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A9710-22-*	22	38	36	.010	.012	.180	.189	28.2
44A9710-20-*	20	36	36	.010	.012	.200	.210	36.0
44A9710-16-*	16	36	36	.012	.014	.254	.267	59.9

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (±3%)		WEIGHT (lb) (± 3%)	
	ACCELERATED AGING, AND LOW TEMPERATURE COLD-BEND	COLD BEND	ACCELERATED AGING, AND LOW TEMPERATURE COLD-BEND	COLD BEND
44A9710-22-*	3.75	3.75	.375	3.00
44A9710-20-*	4.00	4.00	.375	3.00
44A9710-16-*	5.00	5.00	.500	3.00

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

ACCELERATED AGING: 300 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, 1 minute

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

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1.5 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

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

SHIELD COVERAGE: 85% (minimum) each

VOLTAGE WITHSTAND TEST (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

PRODUCT IDENTIFICATION: The cable jacket shall be
marked in black ink at 6 in. (nominal) intervals between
marks as follows: " 44A9710 - AWG - 06090 "PART NUMBER: The "*" in the part numbers above 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. The color of CHROMEL® shall be shown first.

1/ Example: AWG 20,

Per MIL-STD-687: white and green; white jacket:
44A9710-20-9/5-9.Per ANSI MC96.1: yellow and red; yellow jacket:
44A9710-20-4/2-4Per British Standard Code BS: brown and blue; red jacket:
44A9710-20-1/6-2.

The combination of the above thermoelements is referred to as type KX per ANSI MC96.1.

EMF shall be 4.00 mV (minimum), 4.19 mV (maximum), at 100°C with reference
junction corrected to 0°C per ANSI MC96.1, and shall be performed on every length of finished cable.

CHROMEL® and ALUMEL® are federally registered trademarks of Hoskins Manufacturing Company.

Alternative conductors, exhibiting the same performance characteristics, may be substituted for one
or both of the CHROMEL® and ALUMEL® conductors.

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

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

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9