

# SPECIFICATION CONTROL DRAWING

44A7434

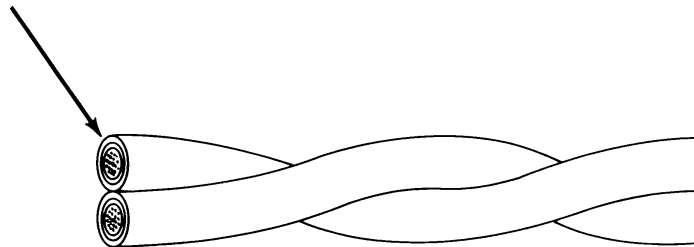
TITLE TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE

Date 10-9-04

Revision U

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®)



CABLE CONSTRUCTION DETAILS				
PARTNUMBER 1/	CONDUCTOR SIZE (AWG)	OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		NOMINAL	MAXIMUM	
44A7434-24-*	24	.104	.108	5.5
44A7434-22-*	22	.118	.124	7.5
44A7434-20-*	20	.140	.147	11.2

### ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 INSULATION FLAWS:  
 Spark Test, 1.5 kV (rms)  
 Impulse Dielectric Test, 8.0 kV (peak)

PARTNUMBER:  
 The "\*" in the part numbers above shall be replaced by color code designators with a slash separating component wire colors:  
 The color of CHROMEL® shall be shown first.  
 1/ Example: AWG 20:  
 Component colors per MIL-STD-687: white and green:  
 44A7434-20-9/5  
 Component colors per ANSI MC96.1: yellow and red:  
 44A7434-20-4/2  
 Component colors per British Standard Code BS: brown and blue:  
 44A7434-20-1/6

PRODUCT IDENTIFICATION: The white wire shall be marked in black ink at 6 inch (nominal) intervals between marks as follows: "44A7434-AWG - 06090".

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 at 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.



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