

# SPECIFICATION CONTROL DRAWING

**55A8002**

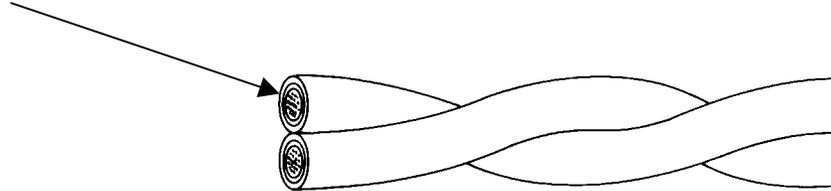
Title TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE, UNSHIELDED, UNJACKETED

Date 5-17-03

Revision G

This specification sheet forms a part of the latest issue of Raychem Specification 55A.

COMPONENT WIRES -  
1 of 55A8001-AWG (CHROMEL®)  
1 of 55A8000-AWG (ALUMEL®)



CABLE CONSTRUCTION DETAILS				
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		NOMINAL	MAXIMUM	
55A8002-24-*	24	.090	.095	5.0
55A8002-22-*	22	.102	.108	6.9
55A8002-20-*	20	.118	.124	10.2
55A8002-18-*	18	.140	.146	14.9
55A8002-16-*	16	.156	.164	19.2

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C  
Maximum continuous conductor temperature  
DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

PRODUCT IDENTIFICATION: The CHROMEL® wire shall be marked in contrasting ink at 12 inch (nominal) intervals as follows:  
"55A8002-(AWG) 06090 RAYCHEM"

PART NUMBER:  
The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors. The color of the CHROMEL® shall be shown first.  
1/ Example: AWG 16,  
Per MIL-STD-687:  
white and green, 55A8002-16-9/5  
Per ANSI MC96.1:  
yellow and red, 55A8002-16-4/2  
Per British Standard Code BS:  
brown and blue, 55A8002-16-1/6

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.



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