

# SPECIFICATION CONTROL DRAWING

55A8081

Title TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE

Date 10-31-02

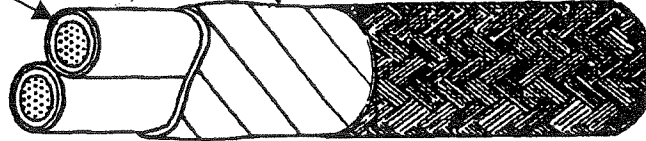
Revision F

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

COMPONENT WIRES -  
 1 of 55A8000-18 (ALUMEL® - Green)  
 1 of 55A8001-18 (CHROMEL® - White)

WRAP - POLYESTER TAPE

BRAID - NOMEX BRAID TREATED TO PREVENT FRAYING COLOR - WHITE



CABLE CONSTRUCTION DETAILS				
PART NUMBER	CONDUCTOR SIZE (AWG)	OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		NOMINAL	MAXIMUM	
55A8081-18	18	.158	.164	18.5

## CABLE RATINGS AND ADDITIONAL REQUIRMENTS

**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

**DIELECTRIC WITHSTAND:** 1500 volts (rms), 60 Hz

**FLAMMABILITY:** Procedure 1,

30 seconds (maximum); 3 inches (maximum);  
 no flaming of facial tissue

**WRAP:** .001 inch (nominal) thickness, 25% (minimum) overlap

**PRODUCT IDENTIFICATION:** Cable shall be marked on outer surface in black ink at 6 inch (nominal) intervals between marks as follows:

"55A8081-18 - 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 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.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

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

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