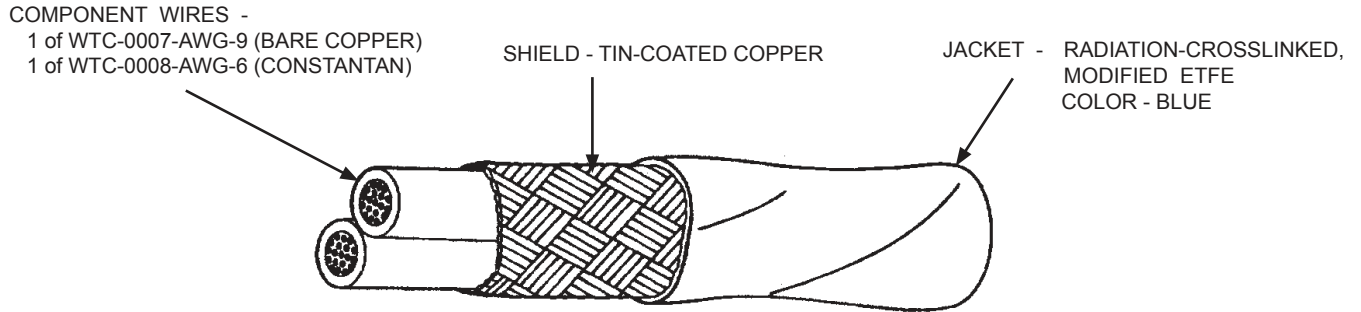


# SPECIFICATION CONTROL DRAWING

**CTC-0003**

<b>TITLE</b> TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE, SHIELDED, JACKETED (SPECIAL LIMIT OF ERROR)	Date 10-22-09	Revision C
This specification sheet forms a part of the latest issue of Raychem Specification 55A.		



CABLE CONSTRUCTION DETAILS							
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
CTC-0003-22	22	38	.006	.008	.124	.130	13.8

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**

- Maximum continuous conductor temperature
- ACCELERATED AGING: 300 ± 3°C for 7 hours
- DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz
- FLAMMABILITY: Procedure 1,3 seconds (maximum);  
3 in. (maximum); no flaming of facial tissue
- JACKET ELONGATION AND TENSILE STRENGTH:  
Elongation, 50% (minimum)  
Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

**JACKET FLAWS:**

- Spark Test, 1000 volts (rms)
- Impulse Dielectric Test, 6.0 kV (peak)
- LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
- SHIELD COVERAGE: 85% (minimum)
- VOLTAGE WITHSTAND (Post Environmental):  
1000 volts (rms), 60 Hz, 1 minute

The combination of the above thermoelements is referred to as Type TX per ANSI MC96.1.

EMF shall be 4.23 mV (minimum), 4.32 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.

NOTE: Special Limit of Error Thermocouple conductor per ANSI MC96.1 Type T  
 Requirement: ± 1% from -300°F to + 150°F.

Replaces EPD 6079

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.			
Page 1 of 1	The TE logo, Tyco Electronics and Raychem, are trademarks.		
	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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