

# SPECIFICATION CONTROL DRAWING

**CTC-0041**

TITLE TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE, SHIELDED, JACKETED

Date 5-5-10

Revision F

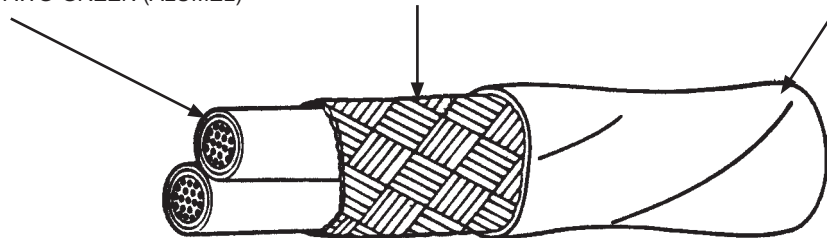
This specification sheet forms a part of the latest issue of Raychem Specification 55F.

**COMPONENT WIRES -**

- 1 of WTC-0064-AWG-WHITE (CHROMEL)
- 1 of WTC-0063-AWG-GREEN (ALUMEL)

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED CONDUCTIVE ETFE  
COLOR - BLACK



### CABLE CONSTRUCTION DETAILS

| PART NUMBER<br>1/ | CONDUCTOR SIZE<br>(AWG) | SHIELD SIZE<br>(AWG) | JACKET THICKNESS<br>(inches) |         | OUTSIDE DIAMETER<br>(inches) |         | MAXIMUM WEIGHT<br>(lbs/1000 ft.) |
|-------------------|-------------------------|----------------------|------------------------------|---------|------------------------------|---------|----------------------------------|
|                   |                         |                      | MINIMUM                      | NOMINAL | NOMINAL                      | MAXIMUM |                                  |
| CTC-0041-22       | 22                      | 38                   | .006                         | .008    | .135                         | .142    | 16.1                             |
| CTC-0041-20       | 20                      | 38                   | .006                         | .008    | .151                         | .159    | 20.4                             |
| CTC-0041-16       | 16                      | 38                   | .006                         | .008    | .189                         | .198    | 32.9                             |

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours

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

**FLUORIDE EXTRACTION:**

70 ± 2° C for 168 hours, 250 ppm (maximum)

**JACKET ELONGATION AND TENSILE STRENGTH:**

Elongation, 50% (minimum)

Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum)

**JACKET FLAWS: Not Applicable**

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

SHIELD COVERAGE: 85% (minimum)

**VOLTAGE WITHSTAND (DIELECTRIC):**

Conductor to conductor and shield, 1500 volts (rms), 60 Hz

VOLTAGE WITHSTAND (Post Environmental): Not Applicable

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.

Replaces EPD 6594

|   |   |  |  |  |
|---|---|--|--|--|
| Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.<br>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 SHALL BE IN ACCORDANCE WITH MIL-STD-681. COLOR CODES DESIGNATORS ARE NOT TO BE INCLUDED IN THE PART NUMBER DESCRIPTION. 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, Raychem, Alumel and Chromel are trademarks.  |  |  | Raychem Wire & Cable<br>501 Oaks Avenue<br>Redwood City, CA 94063-3800<br>Phone: 1-800-227-8816<br>Fax: 1-650-361-6297 |
|   | 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. |  |  |  |

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)