

SPECIFICATION CONTROL DRAWING

CTC-0041

TITLE TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE, SHIELDED, JACKETED

Date 5-5-10

Revision F

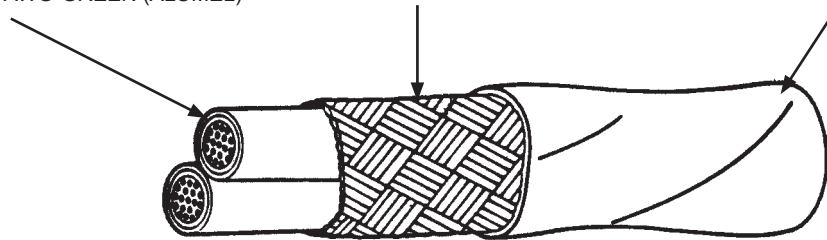
This specification sheet forms a part of the latest issue of Raychem Specification 55F.

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 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (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/in² (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

<p>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.</p>				
<p>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.</p>				
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