

SPECIFICATION CONTROL DRAWING

CTC-0012

Title

TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE,
JACKETED

Date

10-13-03

Revision

D

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®)

JACKET - RADIATION-CROSSLINKED
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
CTC-0012-24	24	.006	.008	.106	.111	7.3
CTC-0012-22	22	.006	.008	.118	.124	10.2
CTC-0012-20	20	.006	.008	.134	.141	14.1
CTC-0012-18	18	.006	.008	.156	.164	19.8
CTC-0012-16	16	.006	.008	.172	.181	24.3

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 inches (maximum);

no flaming of facial tissue

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in² (minimum)

LOOP RESISTANCE:

AWG 20 - .586 ohms/ft (nominal)

18 - .365 ohms/ft (nominal)

16 - .288 ohms/ft (nominal)

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

PART NUMBER:

The "*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color. The color of the CHROMEL® shall be shown first.

1/ Example: AWG 20,

Per MIL-STD-687: white and green; white jacket:
CTC-0012-20-9/5-9

Per ANSI MC96.1: yellow and red; yellow jacket:
CTC-0012-20-4/2-4

Per British Standard Code BS:
brown and blue; red jacket:
CTC-0012-20-1/6-2

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 55A6020

*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.

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