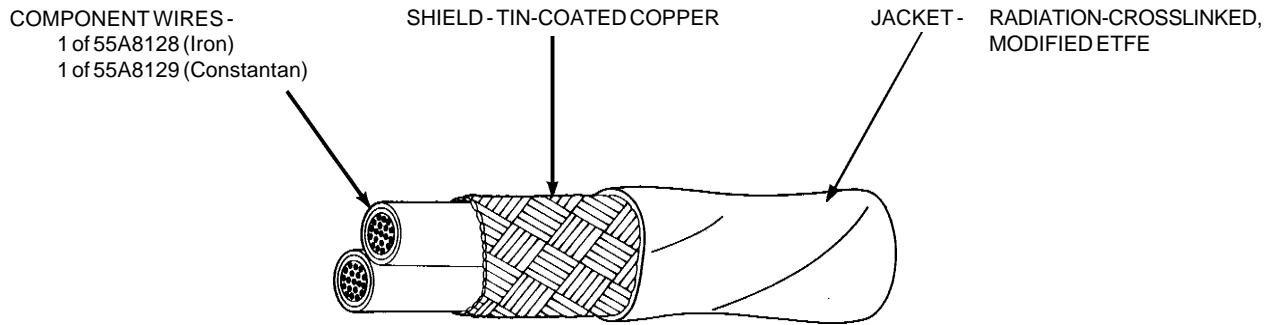


SPECIFICATION CONTROL DRAWING

CTC-0044

TITLE	TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE, SHIELDED, JACKETED	Date	10-11-04	Revision	C
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This specification sheet forms a part of the latest issue of Raychem Specification 55A.



CABLE CONSTRUCTION DETAILS							
PART NUMBER <u>1/</u>	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		NOMINAL WEIGHT (lb/1000ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
CTC-0044-24-*	24	38	.006	.008	.123	.129	11.2
CTC-0044-22-*	22	38	.006	.008	.133	.140	13.1
CTC-0044-20-*	20	38	.006	.008	.151	.159	17.2
CTC-0044-18-*	18	38	.006	.008	.171	.180	22.3
CTC-0044-16-*	16	38	.006	.008	.185	.194	26.4

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
 JACKET ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile Strength, 5000 lbf/in² (minimum)
 JACKET FLAWS:
 Spark Test, 1000 volts (rms)
 Impulse Dielectric Test, 6.0 kV (peak)
 LOW TEMPERATURE - COLD BEND: -65°C ± 2°C for 4 hours
 SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST (Post Environmental):
 1000 volts (rms), 60 Hz, 1 minute

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 Iron shall be shown first.
1/ Example: AWG 24,
 Per MIL-STD-687: Black (Iron), yellow (Constantan)
 white jacket: CTC-0044-24-0/4-9
 Per ANSI MC 96.1: White (Iron), red (Constantan)
 black jacket: CTC-0044-24-9/2-0
 Per British Std. Code BS: Yellow (Iron), blue (Constantan)
 black jacket: CTC-0044-24-4/6-0

The combination of the above thermoelements is referred to as type JX per ANSI MC 96.1.

EMF shall be 5.15 mV (minimum), 5.39 mV (maximum), at 100°C with reference junction at 0°C per ANSI MC 96.1, and shall be performed on every length of finished cable.

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.