

# SPECIFICATION CONTROL DRAWING

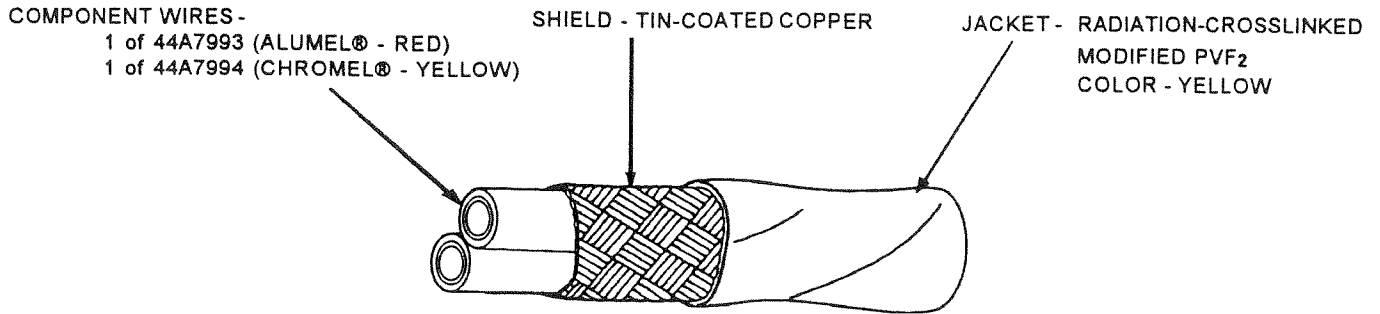
44A7995

TITLE TWO CONDUCTOR THERMOCOUPLE EXTENSION CABLE  
SHIELDED, JACKETED, LIGHTWEIGHT

Date 11-16-98

Revision A

This specification sheet forms a part of the latest issue of Raychem Specification 44.



## CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		NOMINAL WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A7995-20	20	36	.006	.008	.133	.140	15.7

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature  
 ACCELERATED AGING: 300 ± 3°C for 6 hours  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, 1 minute  
 FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);  
 no flaming of facial tissue  
 JACKET CONCENTRICITY: 70% (minimum)  
 JACKET ELONGATION AND TENSILE STRENGTH:  
 Elongation, 200% (minimum)  
 Tensile Strength, 4000 lbf/in<sup>2</sup> (minimum)

### JACKET FLAWS:

Spark Test, 1.5 kV (rms), 60 Hz, 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test  
 LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum)  
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
 1000 volts (rms), 60 Hz, 1 minute

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

EMF shall be 4.00 mV (minimum), 4.19 mV (maximum) as 100°C with reference junction at 0°C, and shall be performed on every length of finished cable.

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COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

**Raychem**

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