

SPECIFICATION CONTROL DRAWING

55A6130TITLE TWO CONDUCTOR, THERMOCOUPLE EXTENSION CABLE,
SHIELDED, JACKETED

Date 6-19-02

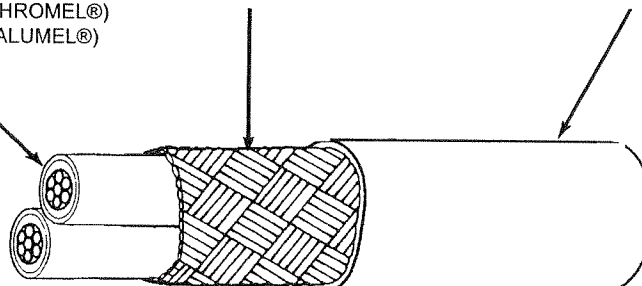
Revision D

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

COMPONENT WIRES -

1 of 55A8028-AWG (CHROMEL®)
1 of 55A8029-AWG (ALUMEL®)
LAID PARALLEL

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A6130-26-*	26	38	.006	.008	.073 x .113	.077 x .119	9.1
55A6130-24-*	24	38	.006	.008	.078 x .123	.082 x .129	10.7
55A6130-22-*	22	38	.006	.008	.083 x .133	.087 x .137	13.1
55A6130-20-*	20	38	.006	.008	.091 x .149	.096 x .153	17.8
55A6130-16-*	16	38	.006	.008	.115 x .197	.121 x .207	34.3

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

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 tissue

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1000 volts (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 230 ± 3°C for 500 hours

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

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 CHROMEL® shall be shown first.

Example: AWG 20,

Per MIL-STD-687: white and green; white jacket:
55A6130-20-9/5-9Per ANSI MC 96.1: yellow and red; yellow jacket:
55A6130-20-4/2-4Per British Standard Code BS:
brown and blue; red jacket:
55A6130-20-1/6-2

CABLE IDENTIFICATION: Cable shall be marked on outer surface in black ink at 12 in. (nominal) intervals between marks as follows: " 55A6130-AWG 06090 "

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.

The combination of the above thermoelements is referred to as type KX per ANSI MC96.1.

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.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

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

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