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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SPECIFICATION CONTROL DRAWING

**55A6130**TITLE TWO CONDUCTOR, THERMOCOUPLE EXTENSION CABLE,  
SHIELDED, JACKETED

Date 6-19-02

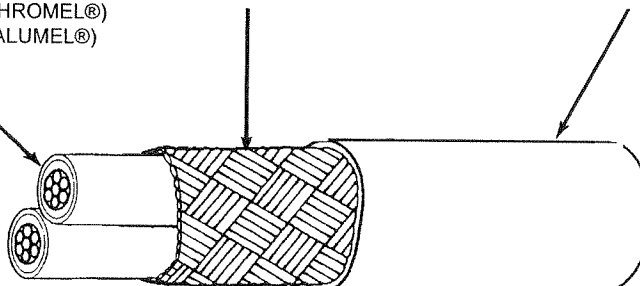
Revision D

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/in<sup>2</sup> (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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