

# SPECIFICATION CONTROL DRAWING

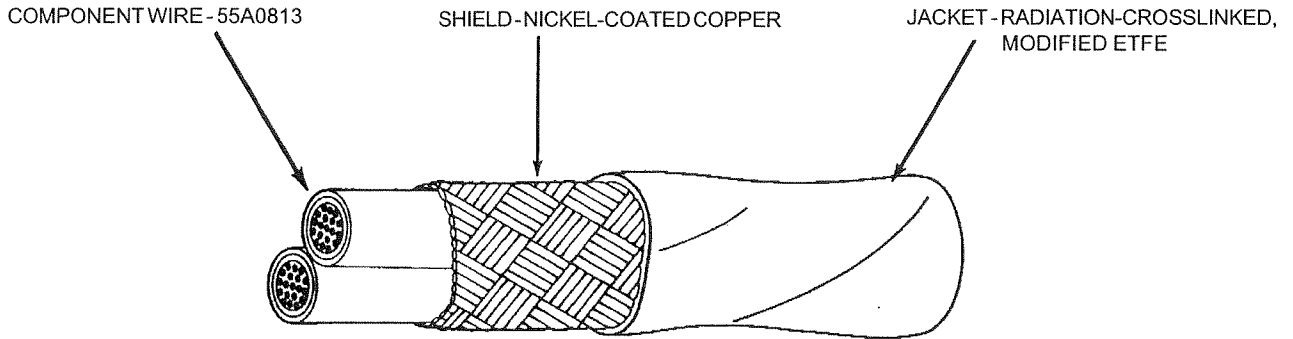
55A1823

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 06-07-00

Revision C

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1823-28-*	28	38	.006	.008	.103	.108	8.1
55A1823-26-*	26	38	.006	.008	.113	.119	9.6
55A1823-24-*	24	38	.006	.008	.123	.129	11.4
55A1823-22-*	22	38	.006	.008	.135	.142	14.5
55A1823-20-*	20	38	.006	.008	.151	.159	18.7
55A1823-18-*	18	38	.006	.008	.173	.182	25.3
55A1823-16-*	16	38	.006	.008	.189	.198	30.4
55A1823-14-*	14	38	.007	.009	.225	.236	43.4
55A1823-12-*	12	38	.007	.009	.259	.272	60.6
55A1823-10-*	10	38	.007	.009	.307	.322	88.2
55A1823-8-*	8	36	.009	.011	.433	.455	165.2

### 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**

**BLOCKING: 200 ± 3°C for 6 hours**

**DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz**

**FLAMMABILITY: Procedure 1, 3 seconds (maximum);**

3 in. (maximum); no flaming of facial tissue

**JACKET COLOR: White preferred**

**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 ± 3°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.

Example: AWG.20, red and orange component wires; white jacket: 55A1823-20-2/3-9

NOTE: Nominal values are for information only.  
Nominal values are not requirements.

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

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

**Raychem**