

# SPECIFICATION CONTROL DRAWING

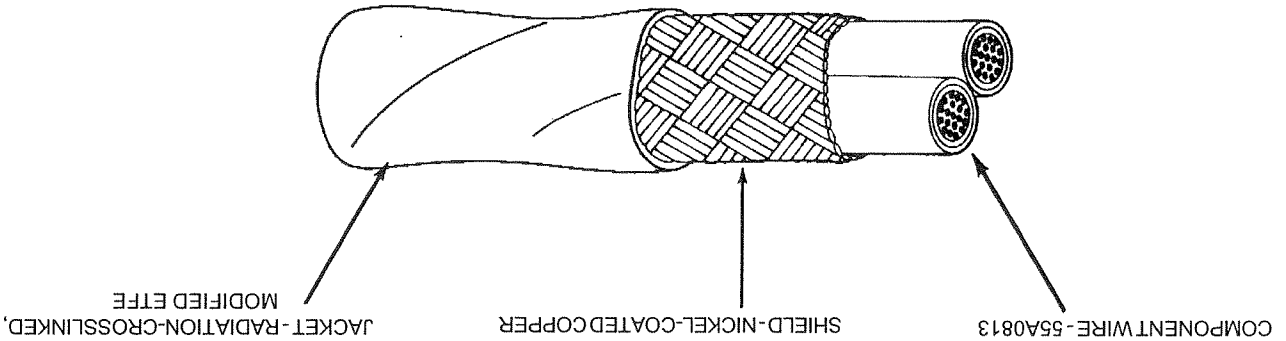
**55A1823**

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.)
			NOMINAL	MINIMUM		
55A1823-28*	28	38	.008	.006	.103	8.1
55A1823-26*	26	38	.008	.006	.113	9.6
55A1823-24*	24	38	.008	.006	.123	11.4
55A1823-22*	22	38	.008	.006	.135	14.5
55A1823-20*	20	38	.008	.006	.151	18.7
55A1823-18*	18	38	.008	.006	.173	25.3
55A1823-16*	16	38	.008	.006	.189	30.4
55A1823-14*	14	38	.009	.007	.225	43.4
55A1823-12*	12	38	.009	.007	.259	60.6
55A1823-10*	10	38	.009	.007	.307	88.2
55A1823-8*	8	36	.011	.009	.433	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 lb/ft.<sup>2</sup> (minimum)  
 JACKET FLAWS:  
 Spark Test, 1000 volts (rms), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

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

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

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.  
 DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

**Raychem**

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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