

# SPECIFICATION CONTROL DRAWING

55A1851

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

Date 4-19-91

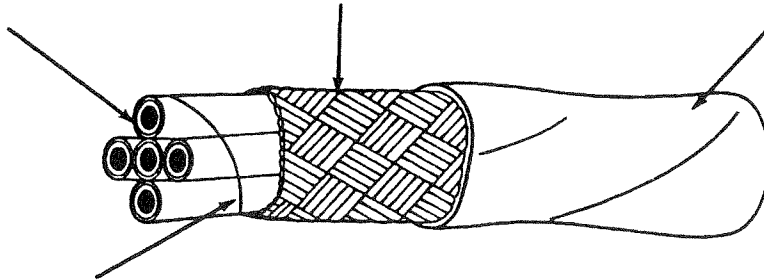
Revision B

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

COMPONENT WIRES - 55A0811

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, EXTRUDED, MODIFIED FLUOROPOLYMER



FILAMENT BINDER AS REQUIRED

### 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	
55A1851-30-*	30	38	.006	.008	.118	.135	11.6
55A1851-28-*	28	38	.006	.008	.127	.143	13.8
55A1851-26-*	26	38	.006	.008	.140	.160	17.4
55A1851-24-*	24	38	.006	.008	.154	.175	21.4
55A1851-22-*	22	38	.006	.008	.170	.193	28.0
55A1851-20-*	20	38	.006	.008	.191	.218	37.9
55A1851-18-*	18	38	.007	.009	.223	.253	52.5
55A1851-16-*	16	38	.007	.009	.245	.279	64.1
55A1851-14-*	14	38	.007	.009	.291	.336	92.8
55A1851-12-*	12	36	.008	.010	.341	.393	133.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°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/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1000 volts (rms), 60 Hz, 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: (After Accelerated Aging, Immersion, Life Cycle and Low-Temperature-Cold Bend) 1000 volts, 60 Hz, 1 minute

PART NUMBER:

The \*\*\* in the part numbers 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, white, black, brown, red, orange and blue component wires; white jacket:

55A1851-20-9/0/1/2/3/6-9

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

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025  
(415) 361 3333 TWX 910 373 1728