

# SPECIFICATION CONTROL DRAWING

55A1852

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

Date 11-10-93

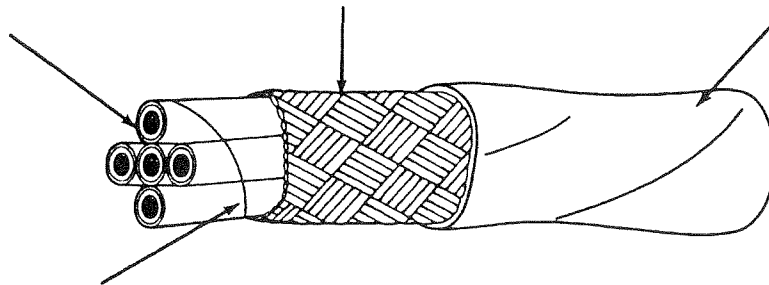
Revision A

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

COMPONENTWIRES-55A0812

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



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	
55A1852-26-*	26	38	.006	.008	.140	.160	17.5
55A1852-24-*	24	38	.006	.008	.154	.175	21.5
55A1852-22-*	22	38	.006	.008	.170	.193	28.4
55A1852-20-*	20	38	.006	.008	.191	.218	38.0
55A1852-18-*	18	38	.007	.009	.223	.253	53.8
55A1852-16-*	16	38	.007	.009	.245	.279	65.7
55A1852-14-*	14	38	.007	.009	.291	.335	93.4
55A1852-12-*	12	36	.008	.010	.342	.395	138.
55A1852-10-*	10	36	.008	.010	.407	.470	205.
55A1852- 8-*	8	34	.010	.012	.577	.667	375.
55A1852- 6-*	6	34	.014	.016	.709	.820	565.
55A1852- 4-*	4	34	.017	.020	.903	1.05	921.

### 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), 60 Hz, 100% test

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

\*Qualification Tests

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, 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:

55A1852-20-9/0/1/2/3/6-9

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

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