

# SPECIFICATION CONTROL DRAWING

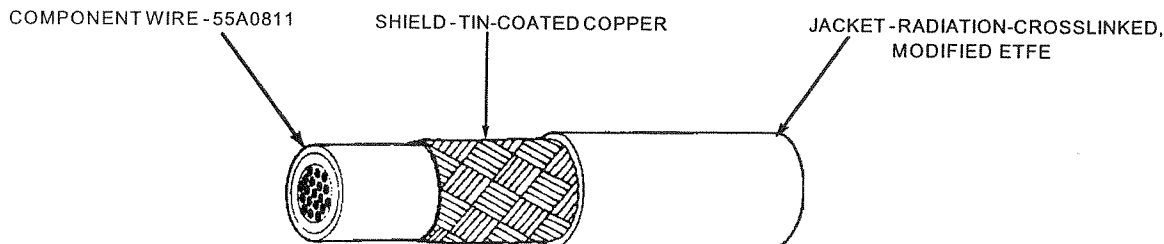
55A1811

TITLE ONE CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 09-20-01

Revision F

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 (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1811-30-*	30	38	.006	.008	.065	.070	4.0
55A1811-28-*	28	38	.006	.008	.068	.073	4.5
55A1811-26-*	26	38	.006	.008	.073	.078	5.3
55A1811-24-*	24	38	.006	.008	.078	.083	6.3
55A1811-22-*	22	38	.006	.008	.084	.089	7.9
55A1811-20-*	20	38	.006	.008	.092	.097	10.0
55A1811-18-*	18	38	.006	.008	.103	.109	13.3
55A1811-16-*	16	38	.006	.008	.111	.117	16.0
55A1811-14-*	14	38	.006	.008	.128	.134	22.2
55A1811-12-*	12	38	.006	.008	.145	.151	30.3
55A1811-10-*	10	38	.006	.008	.168	.176	45.0
55A1811- 8-*	8	38	.007	.009	.229	.250	76.6
55A1811- 6-*	6	38	.007	.009	.275	.286	115.
55A1811- 4-*	4	36	.008	.010	.350	.368	181.
55A1811- 2-*	2	34	.009	.011	.456	.479	297.
55A1811- 1-*	1	34	.009	.011	.518	.544	380.
55A1811- 0-*	0	34	.010	.012	.560	.588	444.
55A1811- 00-*	00	34	.010	.012	.620	.651	568.
55A1811-000-*	000	34	.012	.014	.664	.697	672.

## 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 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: 200 ± 3°C for 168 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 a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 20, white component wire; white jacket:

55A1811-20-9-9

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.

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