

# SPECIFICATION CONTROL DRAWING

**55A1821**TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE  
INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

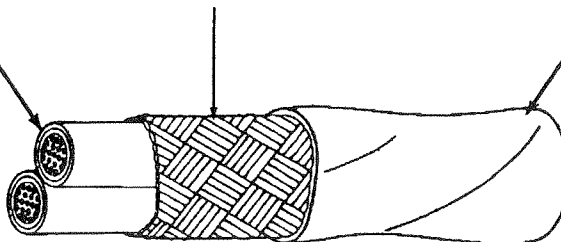
Date 4-27-93

Revision E

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

COMPONENT WIRES - 55A0811

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

## 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	
55A1821-26-*	26	38	.006	.008	.113	.119	9.6
55A1821-24-*	24	38	.006	.008	.123	.129	11.0
55A1821-22-*	22	38	.006	.008	.135	.141	13.9
55A1821-20-*	20	38	.006	.008	.151	.158	18.2
55A1821-18-*	18	38	.006	.008	.173	.180	24.5
55A1821-16-*	16	38	.006	.008	.189	.196	28.8
55A1821-14-*	14	38	.007	.009	.225	.233	41.4
55A1821-12-*	12	38	.007	.009	.259	.269	57.4
55A1821-10-*	10	38	.008	.010	.308	.323	85.7
55A1821- 8-*	8	36	.009	.011	.432	.454	163.
55A1821- 6-*	6	34	.010	.012	.532	.559	251.
55A1821- 4-*	4	34	.011	.015	.677	.711	385.
55A1821- 2-*	2	34	.012	.018	.879	.923	619.

## 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), 60 Hz, 100% test

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

\* LIFE CYCLE: 200 ± 3°C for 168 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: 55A1821-20-2/3-9

\* Qualification Test

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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