

SPECIFICATION SHEET

55A1834

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,  
THREE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

29 July 1986

Revision B

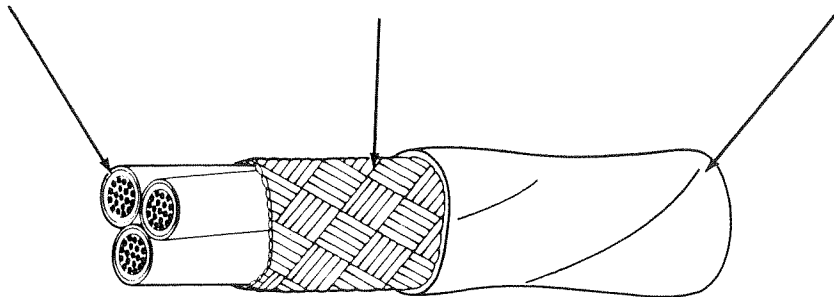
150°C

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRES - 55A0814

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL <sup>1/</sup>	NOMINAL <sup>1/</sup>	MAXIMUM	
			55A1834-30-*	30	38	.006	
55A1834-28-*	28	38	.006	.008	.109	.115	9.8
55A1834-26-*	26	38	.006	.008	.119	.125	12.1
55A1834-24-*	24	38	.006	.008	.130	.136	14.4
55A1834-22-*	22	38	.006	.008	.143	.149	18.5
55A1834-20-*	20	38	.006	.008	.160	.167	24.7

<sup>1/</sup> Nominal values are for information only. Nominal values are not requirements.

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, 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, 60 Hz (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)

THERMAL SHOCK: 300 ± 3°C for 6 hours

VOLTAGE WITHSTAND TEST: (After Accelerated Aging,

Immersion, Life Cycle, Low Temperature-Cold Bend and Thermal Shock) 1000 volts, 60 Hz, 1 minute

PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with slashes separating component wire colors and a dash separating the component wire colors from the jacket color.

Example:

AWG 20, white, black and red component wires;  
white jacket: 55A1834-20-9/0/2-9.