

SPECIFICATION SHEET

55A1813

15 March 1983  
Revision B

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

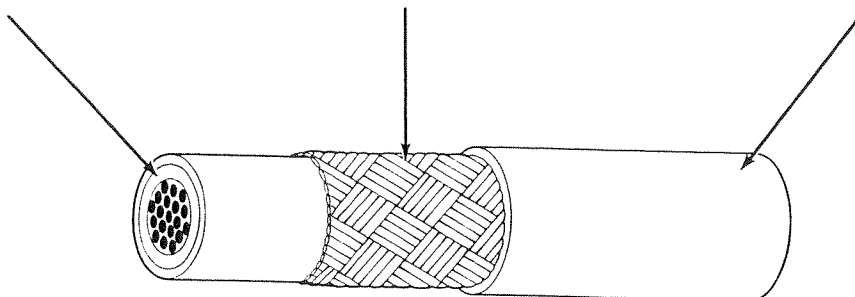
200°C

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

COMPONENT WIRE - 55A0813

SHIELD - NICKEL-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 (lb/1000 ft)
			MINIMUM	NOMINAL <u>1/</u>	NOMINAL <u>1/</u>	MAXIMUM	
55A1813-26-*	26	38	.006	.008	.073	.077	5.6
55A1813-24-*	24	38	.006	.008	.078	.082	6.6
55A1813-22-*	22	38	.006	.008	.084	.088	8.1
55A1813-20-*	20	38	.006	.008	.092	.097	10.3
55A1813-18-*	18	38	.006	.008	.103	.108	13.6
55A1813-16-*	16	38	.006	.008	.111	.117	16.2
55A1813-14-*	14	38	.006	.008	.128	.134	22.4
55A1813-12-*	12	38	.006	.008	.145	.152	31.0
55A1813-10-*	10	38	.006	.008	.169	.177	44.7
55A1813- 8-*	8	38	.007	.009	.230	.242	80.1
55A1813- 6-*	6	38	.007	.009	.276	.290	116.
55A1813- 4-*	4	36	.008	.010	.351	.369	193.

1/ Nominal values are for information only. Nominal values are not requirements.

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, 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 psi (minimum)

JACKET FLAWS:

Spark Test, 1000 volts, 60 Hz (rms), 100% test

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

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°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 a dash separating the component wire color from the jacket color.

Example:

AWG 20, white component wire;  
white jacket: 55A1813-20-9-9.

**Raychem**

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025  
415) 361 3333 TWX 910 373 1205