

# SPECIFICATION CONTROL DRAWING

55A1883

TITLE

EIGHT CONDUCTOR CABLE, SHIELDED,  
JACKETED, NORMAL WEIGHT, 600 VOLT

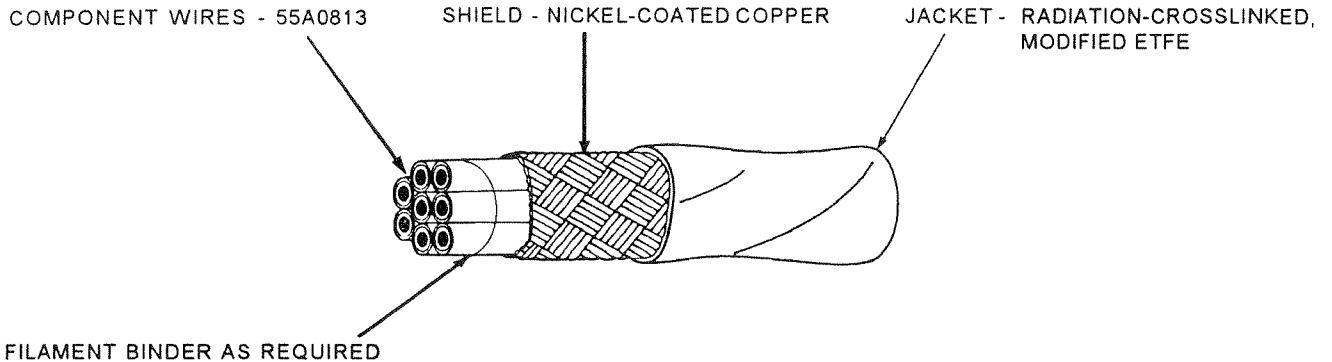
Date

6-23-97

Revision

A

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 (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1883-26-*	26	38	.006	.008	.163	.186	24.3
55A1883-24-*	24	38	.006	.008	.179	.205	30.4
55A1883-22-*	22	38	.006	.008	.196	.224	38.9
55A1883-20-*	20	38	.007	.009	.224	.256	53.7
55A1883-18-*	18	38	.007	.009	.263	.301	77.1
55A1883-16-*	16	38	.007	.009	.285	.328	93.5
55A1883-14-*	14	36	.008	.010	.347	.398	142.

## 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

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 (rms), 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, blue, yellow and gray component wires;

white jacket: 55A1883-20-9/0/1/2/3/6/4/8-9

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.

# Raychem

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025  
1-800-2 Raychem Fax: 1-415-361-6297