

SPECIFICATION CONTROL DRAWING

55A4831

TITLE THREE CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 4-27-93

Revision B

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

COMPONENT WIRES - 55A0811

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A4831-26-*	26	.006	.008	.101	.107	7.0
55A4831-24-*	24	.006	.008	.112	.118	9.1
55A4831-22-*	22	.006	.008	.125	.131	12.5
55A4831-20-*	20	.006	.008	.142	.148	17.8
55A4831-18-*	18	.006	.008	.166	.173	25.8
55A4831-16-*	16	.006	.008	.183	.190	31.9
55A4831-14-*	14	.007	.009	.222	.230	47.8
55A4831-12-*	12	.007	.009	.259	.269	69.9
55A4831-10-*	10	.007	.009	.311	.326	143.

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 inch (maximum); no flaming of facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lb/in² (minimum)

* **LIFE CYCLE:** 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1000 volts, 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, white, black and red component wires; white jacket: 55A4831-20-9/0/2-9

NOTE: Nominal values are for information only.
Nominal values are not requirements

* Qualification Test

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

Raychem

Raychem Corporation
300 Constitution Drive, Menlo Park, California 94025
(415) 361 3333 TWX 910 373 1728