

SPECIFICATION CONTROL DRAWING

44A9681

TITLE

TWO CONDUCTOR CABLE,
JACKETED, GENERAL PURPOSE, 600 VOLT

Date

2-28-97

Revision

A

This specification sheet forms a part of the latest issue of Raychem Specification 44.

COMPONENT WIRES - 44A9673

JACKET - RADIATION-CROSSLINKED,
MODIFIED PVF₂

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A9681-24-*	24	.006	.008	.100	.105	6.5
44A9681-22-*	22	.006	.008	.114	.120	8.7
44A9681-20-*	20	.006	.008	.130	.137	12.1
44A9681-18-*	18	.006	.008	.150	.158	17.5

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	ACCELERATED AGING, IMMERSION AND LIFE CYCLE	COLD BEND	ACCELERATED AGING, IMMERSION AND LIFE CYCLE	COLD BEND
44A9681-24-*	2.50	2.50	375	1.50
44A9681-22-*	3.00	3.00	375	3.00
44A9681-20-*	3.50	3.50	375	3.00
44A9681-18-*	4.00	4.00	500	3.00

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 225 ± 2°C for 6 hours

BLOCKING: 150 ± 2°C for 6 hours

DIELECTRIC WITHSTAND: 2500 volts (rms), 60 Hz,
1 minuteFLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);
no flaming of facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE COLD BEND: -65 ± 2°C for 4 hours

PART NUMBER:

The "*" in the part number above shall be replaced by a
color code designator with a slash separating the component
wire colors and a dash separating the component wire colors
from the jacket color.Example: AWG 18, white and black component wires;
white jacket: 44A9681-18-9/0-9NOTE: 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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