

# SPECIFICATION CONTROL DRAWING

44A9676

TITLE THREE CONDUCTOR CABLE, SHIELDED,  
JACKETED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 2-26-97

Revision

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

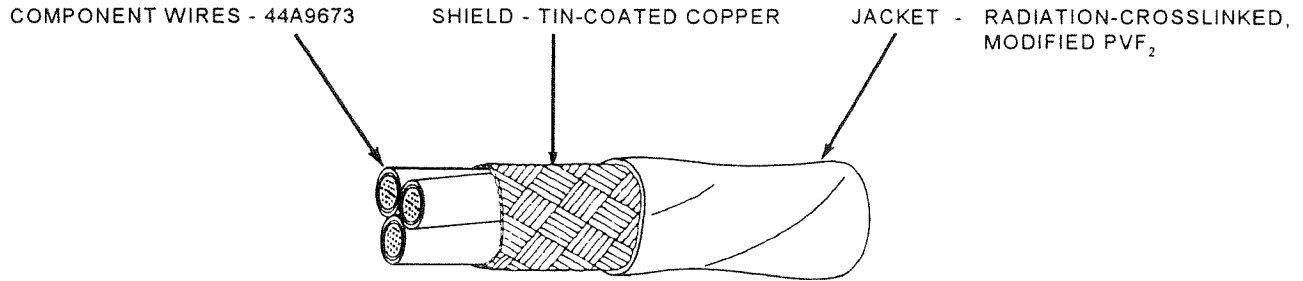


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A9676-24-*	24	36	.006	.008	.128	.134	15.2
44A9676-22-*	22	36	.006	.008	.143	.150	19.2
44A9676-20-*	20	36	.006	.008	.160	.168	25.2
44A9676-18-*	18	36	.007	.009	.184	.193	34.5

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (3%)		WEIGHT (lb) (± 3 %)	
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A9676-24-*	3.50	3.50	.563	2.25
44A9676-22-*	4.00	4.00	.563	4.50
44A9676-20-*	4.25	4.25	.563	4.50
44A9676-18-*	5.00	5.00	.750	4.50

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 300 ± 3°C for 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 2500 volts (rms), 60 Hz, 1 minute

FLAMMABILITY: 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/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1.5 kV (rms), 60 Hz

Impulse Dielectric Test, 6.0 kV (peak)

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°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 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, black and red component wires; White jacket; 44A9676-18-9/0/2-9

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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