

SPECIFICATION CONTROL DRAWING

44A9677

TITLE FOUR 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.

COMPONENT WIRES - 44A9673

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED PVF₂

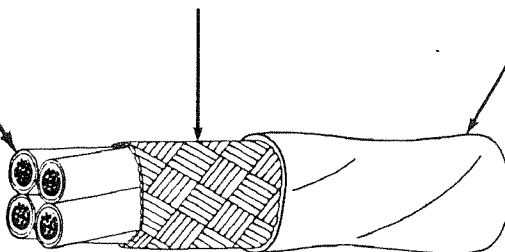


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A9677-24-*	24	36	.006	.008	.139	.160	18.5
44A9677-22-*	22	36	.006	.008	.156	.180	23.8
44A9677-20-*	20	36	.007	.009	.177	.206	31.9
44A9677-18-*	18	36	.007	.009	.201	.234	43.7

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
44A9677-24-*	3.75	3.75	.750	3.00
44A9677-22-*	4.25	4.25	.750	6.00
44A9677-20-*	5.00	5.00	.750	6.00
44A9677-18-*	5.50	5.50	1.00	6.00

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/in² (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, red and green
component wires; white jacket;
44A9677-18-9/0/2/5-9

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

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

Raychem

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