

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.

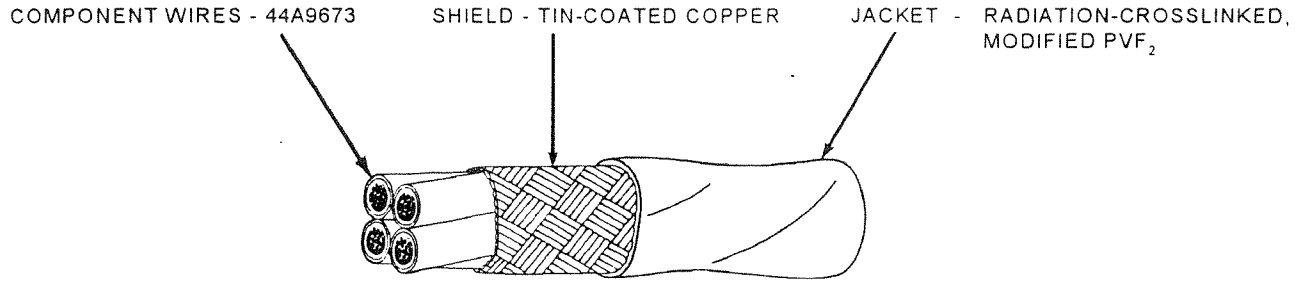


TABLE I. CABLE CONSTRUCTION DETAILS

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

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[44A9677-20-ELC4-9CS2746](#)