

SPECIFICATION CONTROL DRAWING

44A9970

TITLE WIRE, ELECTRICAL, RADIATION CROSSLINKED, POLYALKENE INSULATED, TIN-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 2500 VOLT

Date 3-25-91

Revision

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

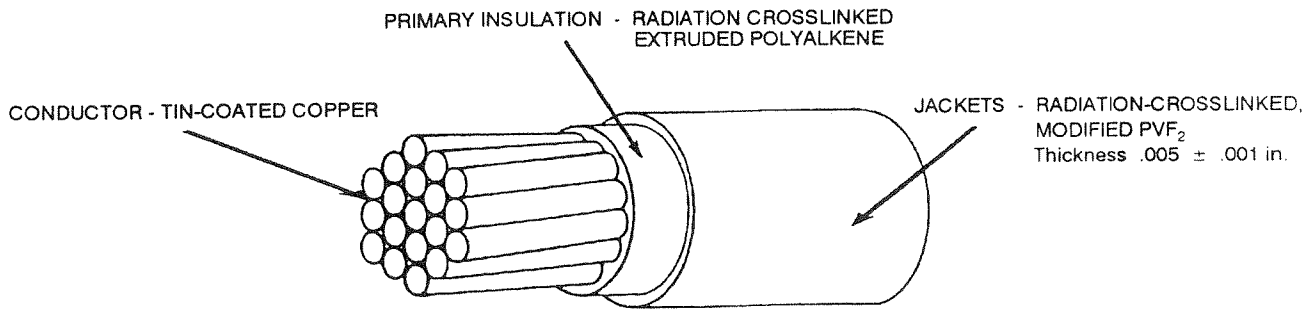


TABLE I. CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	MAXIMUM DIAMETER OF STRANDED CONDUCTOR (inches)	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inches)	MAXIMUM WEIGHT (lb/1000 ft)
44A9970-16-*	16	37 x 32	.058	5.00	.097 ± .004	10.7
44A9970-14-*	14	37 x 30	.073	3.20	.115 ± .004	16.2

TABLE II. PERFORMANCE DETAILS

PART NUMBER	BEND TESTING				
	MANDREL DIAMETER (inch) (3%)			WEIGHT (lb) (± 3%)	
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP TEST	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND
44A9970-16-*	1.00	1.50	400	4.375	4.375
44A9970-14-*	1.50	2.00	500	4.375	4.375

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 2500 volts (rms)

ACCELERATED AGING: 300 ± 2°C for 6 hours

Identification legibility, 225 ± 2°C for 6 hours

BLOCKING: 150 ± 2°C for 24 hours

COLOR: White preferred

FLAMMABILITY: 30 seconds (maximum);

3 in. (maximum); no flaming of facial tissue

HUMIDITY RESISTANCE: Insulation resistance,

5000 megohms for 1000 ft. (minimum)

IDENTIFICATION AND STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

IMMERSION: Diameter increase 5% (maximum);

no cracking, no dielectric breakdown

INSULATION ELONGATION AND TENSILE STRENGTH:

Primary Insulation,

Elongation, 150% (minimum)

Tensile Strength, 2,500 lbf/in² (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 5.0 kV (rms), 60 Hz, 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

Finished Wire,

Impulse Dielectric Test, 12.0 kV (peak), 100% test

INSULATION RESISTANCE: 5000 megohms

for 1000 ft. (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

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

SHRINKAGE: 300 ± 3°C, .125 in. (maximum)

in 12 in. (maximum)

SMOKE: 200 ± 2°C, no visible smoke

SURFACE RESISTANCE: 500 megohms-in (minimum)

both readings

THERMAL SHOCK RESISTANCE: 150 ± 3°C 0.060 in.

(maximum)

VOLTAGE WITHSTAND TEST: (After Accelerated Aging,

Immersion, Life Cycle and Low-Temperature Cold bend)

5000 volts (rms), 60 Hz, 5 minutes

PART NUMBER:

The *** in the part numbers above shall be replaced

by a color code designator.

Example: AWG 16, White; 44A9970-16-9

This is an Americanized UK SCD of 44A9970, issue 1.

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
(415) 361 3333 TWX 910 373 1728

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)