SPECIFICATION CONTROL DRAWING

44A9964

WIRE, ELECTRICAL, RADIATION CROSSLINKED, POLYALKENE INSULATED. TIN-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 1000 VOLT

10-23-92

Revieion

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-W-81044 as applicable

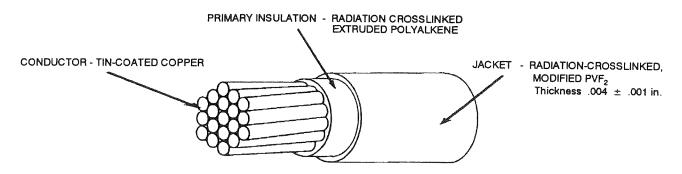


TABLE I. CONSTRUCTION DETAILS									
PART NUMBER	CONDUCTOR SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	MAXIMUM DIAMETER OF STRANDED CONDUCTOR (inches)	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inches)	MAXIMUM WEIGHT (lb/1000 ft)			
44A9964-16-*	16	37 x 32	.058	5.00	.081 ± .003	9.6			
44A9964-14-*	14	37 x 30	.073	3.20	.098 ± .004	14.7			

	TAE	BLE II. PERFOR	MANCE DETAIL	S				
PART NUMBER	BEND TESTING							
		EL DIAMETER ch) (3%)	WEIGHT (lb) (± 3 %)					
	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND	WRAP TEST	IMMERSION LIFE CYCLE AND ACCELERATED AGING	COLD BEND			
44A9964-16-*	1.00	1.50	.400	1.125	4.375			
44A9964-14-*	1.50	2.00	.500	1.125	4.375			

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 1000 volts (rms)

ACCELERATED AGING: 300 ± 2°C for 6 hours Identification legibility, 225 \pm 2°C for 6 hours BLOCKING: 150 \pm 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, 2.0 kV (rms), 60 Hz, 100% test

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

Finished Wire.

Impulse Dielectric Test, 8.0 kV (peak), 100% test

INSULATION RESISTANCE: 5000 megohms for

1000 ft. (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -85 ± 2°C for 4 hours

SHRINKAGE: 300 ± 3°C, .125 in. (maximum) in 12 in.

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)

3000 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; 44A9964-16-9

This is an Americanized UK SCD of 44A9964, issue 1.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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