

SPECIFICATION CONTROL DRAWING

TITLE

WIRE, ELECTRIC, RADIATION-CROSSLINKED, POLYALKENE-INSULATED
TIN-COATED COPPER, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date

08-15-01

Revision

E

WXA-0059

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

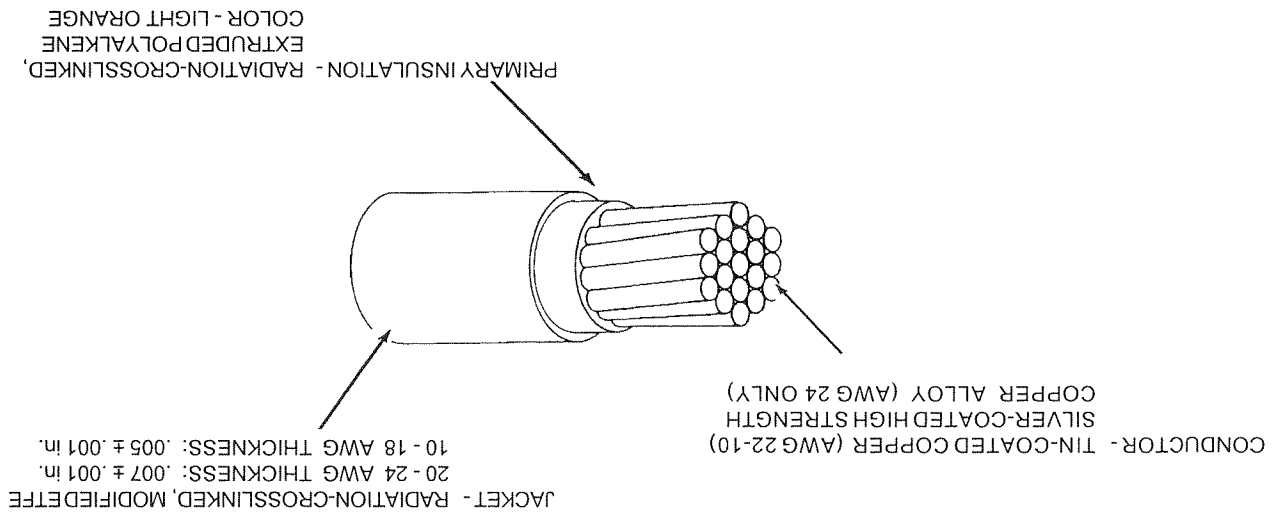


TABLE I. CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		MAXIMUM RESISTANCE AT 20°C (ohms/1000ft)	DIAMETER (in.)	MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM			
WXA-0059-24*	24	19 x 36	.023	.025	28.4	.045 ± .002	2.3
WXA-0059-22*	22	19 x 34	.029	.032	16.2	.052 ± .002	3.3
WXA-0059-20*	20	19 x 32	.037	.041	9.88	.060 ± .002	4.9
WXA-0059-18*	18	19 x 30	.046	.051	6.23	.071 ± .002	7.3
WXA-0059-16*	16	19 x 29	.052	.058	4.81	.079 ± .002	9.2
WXA-0059-14*	14	19 x 27	.065	.073	3.06	.093 ± .002	13.6
WXA-0059-12*	12	37 x 28	.084	.090	2.02	.114 ± .003	20.7
WXA-0059-10*	10	37 x 26	.106	.114	1.26	.139 ± .003	32.5

TABLE II. PERFORMANCE DETAILS

PART NUMBER	MANDREL DIAMETER (inch) (± 3%)		COLD BEND	IMMERSION, LIFE CYCLE AND ACCELERATED AGING	WEIGHT (lb) (± 3%)
	ACCELERATED AGING	IMMERSION, LIFE CYCLE AND ACCELERATED AGING			
WXA-0059-24*	.500	1.00	1.00	.500	3.00
WXA-0059-22*	.750	1.00	1.00	1.50	3.00
WXA-0059-20*	.750	1.00	1.00	2.00	4.00
WXA-0059-18*	1.00	1.25	1.25	2.00	4.00
WXA-0059-16*	1.00	1.25	1.25	2.00	5.00
WXA-0059-14*	1.25	2.00	2.00	2.00	5.00
WXA-0059-12*	2.00	2.00	2.00	2.00	5.00
WXA-0059-10*	3.00	3.00	3.00	2.00	5.00

NOTE: Nominal values are for information only. Nominal values are not requirements.

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

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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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 ACCELERATED AGING: 300 ± 3°C for 7 hours
 BLOCKING: 200 ± 3°C for 24 hours, per Raychem Spec 55A
 COLOR: White preferred
 FLAMMABILITY: 30 seconds (maximum); 3 inch (maximum);
 no flaming of facial tissue
 HUMIDITY RESISTANCE: After humidity exposure, wire shall
 meet the requirements for initial Insulation Resistance
 IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles
 (250 strokes) (minimum), 500 g weight
 IMMERSION: Diameter increase 5% (maximum);
 no cracking, no dielectric breakdown
 INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum) AWG 24-14,
 3000 megohms for 1000 ft. (minimum) AWG 12-10
 INSULATION ELONGATION AND TENSILE STRENGTH:
 (Primary insulation and jacket pulled together at 2 inches/minute)
 Tensile Strength, 3000 lbf/in² (minimum)
 Elongation, 75% (minimum)
 INSULATION FLAWS:
 Primary Insulation,
 Spark Test, 1.5 kV, 60 Hz (rms), 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test
 Finished Wire,
 Impulse Dielectric Test, 8.0 kV (peak), 100% test
 LIFE CYCLE: 200 ± 2°C for 168 hours
 LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
 SHRINKAGE: 230 ± 2°C, 0.125 inch (maximum) in 12 inches
 SMOKE TEST: 200 ± 5°C
 SURFACE RESISTANCE: 500 megohms-inch (minimum), both readings
 THERMAL SHOCK RESISTANCE: 150 ± 2°C, 0.060 inch (maximum)
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
 2500 volts (rms), 60 Hz, 5 minutes

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by color code designators.
 Example: AWG 20, white: WXA-0059-20-9

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