

SPECIFICATION CONTROL DRAWING

10571

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

Date 01-18-01

Revision B

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

CONDUCTOR - TIN-COATED COPPER

INSULATION - RADIATION-CROSSLINKED,
EXTRUDED POLYALKENE

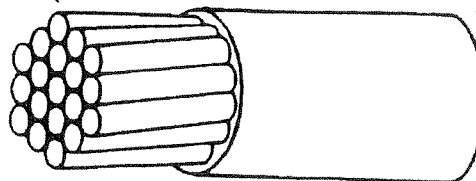


TABLE I. CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)	FINISHED WIRE		
			MAXIMUM	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft)	DIAMETER (in.)	NOMINAL WEIGHT (lbs/1000 ft.)
10571-30-*	30	7 x 38	.013	110.1	.030 ± .003	.70
10571-28-*	28	7 x 36	.016	78.3	.032 ± .003	.90
10571-26-*	26	19 x 38	.021	42.6	.037 ± .003	1.4
10571-24-*	24	19 x 36	.026	25.5	.043 ± .003	2.0
10571-22-*	22	19 x 34	.033	15.9	.050 ± .004	2.9
10571-20-*	20	19 x 32	.041	9.90	.058 ± .004	4.4
10571-18-*	18	19 x 30	.052	6.22	.069 ± .004	6.7
10571-16-*	16	19 x 29	.060	4.91	.082 ± .004	8.9
10571-14-*	14	19 x 27	.074	3.14	.100 ± .004	13.6
10571-12-*	12	37 x 28	.096	1.98	.122 ± .004	21.7
10571-10-*	10	37 x 26	.118	1.34	.153 ± .007	33.9

TABLE II. PERFORMANCE DETAILS

PART NUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	ACCELERATED AGING	COLD BEND	ACCELERATED AGING	COLD BEND
10571-30-*	.250	.375	.250	.500
10571-28-*	.250	.375	.250	.500
10571-26-*	.250	.375	.250	.500
10571-24-*	.250	.500	.250	.750
10571-22-*	.375	.500	.750	.750
10571-20-*	.375	1.00	.750	1.00
10571-18-*	.500	1.00	1.00	1.00
10571-16-*	.500	1.00	1.00	1.00
10571-14-*	.750	1.75	2.00	3.00
10571-12-*	.750	1.75	2.00	3.00
10571-10-*	1.00	2.25	3.00	5.00

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.

Raychem

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C,

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 225 ± 5°C for 4 hours

COLOR: White preferred

IDENTIFICATION, STRIPING, OR BAND DURABILITY: 125 cycles

(250 strokes) (minimum), 150g weight

INSULATION ELONGATION AND TENSILE STRENGTH:

Tensile Strength, 2500 lbf/in² (minimum)

Elongation, 100% (minimum)

INSULATION FLAWS:

Spark Test, 3.0 kV (rms), 100% test

Impulse Dielectric test, 10.0 kV (peak), 100% test

INSULATION RESISTANCE: 5000 megohms (minimum) for 1000 ft.

LOW TEMPERATURE-COLD BEND: -55 ± 4°C for 4 hours

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 a color code designator.

Example: AWG 20, white: 10571-20-9