

## ROME RW 90 MINUS 40°C

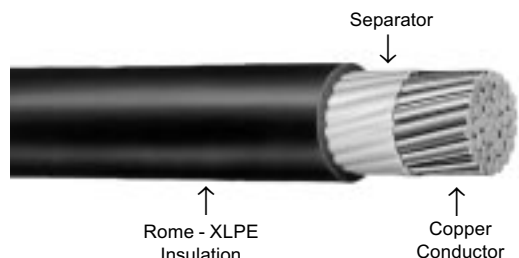
### Rome-XLPE Insulation, 600/1000 Volts

**APPLICATION:** Single conductor cable with low temperature and moisture resistant crosslinked polyethylene insulation for open wiring exposed to the weather or in raceways (except cable troughs and ventilated flexible cableways) at a maximum operating temperature of 90°C in wet or dry locations at circuit voltages of 600 or 1000 volts (1). Suitable for installation at temperatures down to -40° C when proper handling procedures are used.

**STANDARDS:**

- Listed by Canadian Standards Association as Type RW 90 Minus 40°C in accordance with CSA Standard C22.2 No. 38.

**CONSTRUCTION:** Annealed copper conductor, Rome-XLPE thermosetting chemically crosslinked polyethylene insulation, surface printed.



Size AWG or kcmil	No. of Strands	Insulation Thickness		Nom. Diam.		Copper Conductor			
						Approx. Net Wt.		Ampacity*	
		Mils.	mm	In.	mm	lb/k ft.	kg/km	Free Air	Conduit
14	7	30	.76	.14	3.6	17	25.3	20	15
12	7	30	.76	.16	4.1	26	38.7	25	20
10	7	30	.76	.18	4.6	39	58.0	40	30
8	7	45	1.14	.24	6.1	62	92.3	70	45
6	7	60	1.52	.31	7.9	99	147	100	65
4	7	60	1.52	.35	8.9	149	222	135	85
2	7	60	1.52	.41	10.4	229	341	180	120
1	19	80	2.03	.49	12.4	300	447	210	140
1/0	19	80	2.03	.53	13.5	370	551	245	155
2/0	19	80	2.03	.58	14.7	459	683	285	185
3/0	19	80	2.03	.63	16.0	570	848	330	210
4/0	19	80	2.03	.68	17.3	710	1057	385	235
250	37	90	2.29	.75	19.1	846	1259	425	265
300	37	90	2.29	.81	20.6	1005	1496	480	295
350	37	90	2.29	.86	21.8	1165	1734	530	325
400	37	90	2.29	.90	22.9	1323	1969	575	345
500	37	90	2.29	.98	24.9	1638	2438	660	395
600	61	90	2.29	1.06	26.9	1961	2918	740	455
750	61	90	2.29	1.16	29.5	2437	3627	845	500
1000	61	90	2.29	1.34	34.0	3230	4807	1000	585
1250	91	110	2.79	1.55	39.4	4082	6075	1130	645
1500	91	110	2.79	1.67	42.4	4874	7254	1260	700
1750	127	110	2.79	1.79	45.5	5663	8428	1370	735
2000	127	110	2.79	1.89	48.0	6453	9603	1470	775

\* AMPACITY in accordance with C.E. Code Part 1; single conductor in free air, 90°C conductor temperature, 30°C ambient; not more than three conductors in raceway, 90°C conductor temperature, 30°C ambient.

**NOTES:**

- Sizes 14, 12 and 10 AWG are rated 600 volts. Sizes 8 AWG and larger are rated 1000 volts.
- Standard color is black. Other colors available on request.
- Non-jacketed RW 90 Minus 40°C cables with XLPE insulation are not suitable for use in vaults and switchrooms. Flame-retardant jacketed cables for these applications available on request.

## Specification

### ROME RW 90 MINUS 40°C

### Rome-XLPE Insulation, 600/1000 Volts

#### 1. SCOPE

- 1.1 This specification describes single conductor Rome-XLPE crosslinked polyethylene insulated cables for use in circuits of 600 volts (14-10 AWG) or 1000 volts (8 AWG and larger). Cables are listed by CSA as Type RW 90 Minus 40°C with XLPE insulation for use in accordance with the Canadian Electrical Code. Cables may be used as open wiring or in raceway at a maximum continuous conductor temperature of 90°C in wet or dry locations. Cables are also suitable for installation at temperatures down to -40°C when proper handling procedures are used.

#### 2. STANDARDS

- 2.1 The following standard shall form a part of this specification to the extent specified herein:
  - 2.1.1 CSA Standard C22.2 No. 38 for Thermoset Insulated Wires and Cables.

#### 3. CONDUCTORS

- 3.1 Shall be stranded annealed uncoated copper in accordance with Clause 4 of CSA C22.2 No. 38. A non-hygroscopic opaque separator may be used over the conductor at the option of the manufacturer.

#### 4. INSULATION

- 4.1 Each conductor shall be insulated with Rome-XLPE, a crosslinked polyethylene complying with the physical and electrical requirements of CSA C22.2 No. 38 for Type RW 90 Minus 40°C.
- 4.2 The average thickness of insulation shall be as specified in Table 8 of CSA C22.2 No. 38 using the 600 volt thickness for sizes 14-10 AWG and 1000 volt thickness for sizes 8 AWG and larger. The minimum thickness at any point shall be not less than 90% of the specified average thickness.

#### 5. IDENTIFICATION

- 5.1 Cables shall be surface ink printed with a legend identifying the manufacturer, size, grade of insulation, RW 90 Minus 40°C and voltage rating.

#### 6. TESTS

- 6.1 Cable shall be tested in accordance with the requirements for Type RW 90 Minus 40°C in CSA C22.2 No. 38.