

ROME RW 90 MINUS 40C

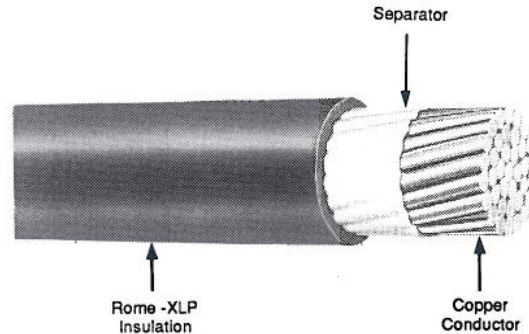
Rome-XLP Insulation (XLPE), 600/1000 Volts

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:

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

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



| Size AWG or kcmil | No. of Strands | Insulation Thickness | | Nom. Diam. | | Copper Conductor | | | |
|----------------------------|-------------------|-------------------------|------|---------------|------|--------------------|------|-----------|-------|
| | | | | | | Approx. Net Wt. | | Ampacity* | |
| | | | | | | | | lb/k ft. | kg/km |
| Mils. | mm | In. | mm | | | | | | |
| 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:

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

Information on this sheet subject to change without notice.

Specification

ROME RW 90 MINUS 40C

Rome-XLP Insulation (XLPE), 600/1000 Volts

1. SCOPE

- 1.1 This specification describes single conductor Rome-XLP 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 40C 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-XLP, a crosslinked polyethylene complying with the physical and electrical requirements of CSA C22.2 No. 38 for Type RW 90 Minus 40C with XLPE insulation.
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 40C and voltage rating.

6. TESTS

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