



INDUSTRIAL CABLE SPECIFICATIONS RPV90 & RPVU90 PHOTOVOLTAIC WIRE

- **SINGLE COPPER CONDUCTORS**
- **XLPE INSULATION**
- **SUNLIGHT RESISTANT**

Conductor

- Class B - stranded copper
- Option: tinned copper

Insulation

- XLPE Insulation

Qualification Standards

- CSA C22.2 No. 38 - Thermoset-Insulated Wires and Cables
- CSA C22.2 No. 271-11
- ASTM B3, B8, B787
- RoHS Compliant

Flame Test Ratings

- FT1 - Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)
- FT4 - Flame Test (70,000 BTU/Hr - Vertical Tray Flame Test)
- FT1 for 600V, 1kV or 2kV
- FT1 and FT4 on 1kV/2kV only

- **RPV90 RATED 600, 1000 or 2000 VOLTS**
- **RPVU90 RATED 1000 / 2000 VOLTS**
- **90°C MAX, -40°C MIN**

Product Ratings

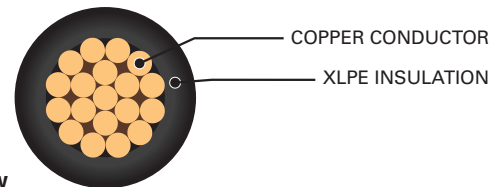
- Direct Burial Rated (RPVU90 Only)
- CSA C22.2 No. 38
- CSA SUN RES - for Sunlight Resistant rating

Operating Temperatures

- -40°C - CSA Cold Bend and Impact Temperature
- -25°C - Min. Installation Temperature
- 90°C Dry / 90°C Wet

Sample Print Legend

- L90458 CSA AWG 10 (5.26mm²) RPVU90 1000V
XLPE -40C SR DIR BUR --- (date) --- ROHS



SPECIFICATIONS - RPV90

| Insulation Voltage | Conductor | | | | Insulation Thickness | | Diameter Over Insulation | | Weight | |
|--------------------|-------------------|-------------|-------------------|---------------|----------------------|---------|--------------------------|--------------|----------------------|-----------------|
| | Size AWG or kcmil | Stands / OD | Diameter (inches) | Diameter (mm) | Avg. inches | Avg. mm | Nominal (inches) | Nominal (mm) | Nominal (lbs/1000ft) | Nominal (kg/km) |
| 600 | 14 | 19 or 7 | 0.0276 | 1.84 | 0.030 | 0.762 | 0.134 | 3.404 | 17 | 25 |
| 600 | 12 | 19 or 7 | 0.0915 | 2.32 | 0.030 | 0.762 | 0.153 | 3.886 | 25 | 37 |
| 600 | 10 | 19 or 7 | 0.1160 | 2.95 | 0.030 | 0.762 | 0.173 | 4.394 | 38 | 57 |
| 600 | 8 | 19 or 7 | 0.1460 | 3.71 | 0.045 | 1.143 | 0.235 | 5.969 | 63 | 94 |
| 1000 | 14 | 19 or 7 | 0.0276 | 1.84 | 0.045 | 1.143 | 0.164 | 4.166 | 20 | 30 |
| 1000 | 12 | 19 or 7 | 0.0915 | 2.32 | 0.045 | 1.143 | 0.183 | 4.648 | 28 | 42 |
| 1000 | 10 | 19 or 7 | 0.1160 | 2.95 | 0.045 | 1.143 | 0.201 | 5.105 | 41 | 61 |
| 1000 | 8 | 19 or 7 | 0.1460 | 3.71 | 0.060 | 1.524 | 0.265 | 6.731 | 69 | 103 |
| 2000 | 14 | 19 or 7 | 0.0276 | 1.84 | 0.060 | 1.524 | 0.194 | 4.928 | 24 | 36 |
| 2000 | 12 | 19 or 7 | 0.0915 | 2.32 | 0.060 | 1.524 | 0.213 | 5.410 | 33 | 49 |
| 2000 | 10 | 19 or 7 | 0.1160 | 2.95 | 0.060 | 1.524 | 0.235 | 5.969 | 47 | 70 |
| 2000 | 8 | 19 or 7 | 0.1460 | 3.71 | 0.080 | 2.032 | 0.305 | 7.747 | 76 | 113 |

SPECIFICATIONS - RPVU90

| Insulation Voltage | Conductor | | | | Insulation Thickness | | Diameter Over Insulation | | Weight | |
|--------------------|-------------------|-------------|-------------------|---------------|----------------------|---------|--------------------------|--------------|----------------------|-----------------|
| | Size AWG or kcmil | Stands / OD | Diameter (inches) | Diameter (mm) | Avg. inches | Avg. mm | Nominal (inches) | Nominal (mm) | Nominal (lbs/1000ft) | Nominal (kg/km) |
| 1000 / 2000 | 14 | 19 or 7 | 0.0276 | 1.84 | 0.060 | 1.524 | 0.194 | 4.928 | 24 | 36 |
| 1000 / 2000 | 12 | 19 or 7 | 0.0915 | 2.32 | 0.060 | 1.524 | 0.213 | 5.410 | 33 | 49 |
| 1000 / 2000 | 10 | 19 or 7 | 0.1160 | 2.95 | 0.060 | 1.524 | 0.235 | 5.969 | 47 | 70 |
| 1000 / 2000 | 8 | 19 or 7 | 0.1460 | 3.71 | 0.080 | 2.032 | 0.305 | 7.747 | 76 | 113 |

All values should be considered nominal and subject to normal manufacturing tolerances.