



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

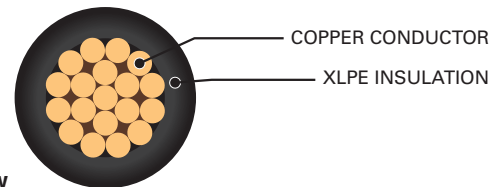
- Direct Burial Rated (RPVU90 Only)
- CSA C22.2 No. 38
- CSA SUN RES - for Sunlight Resistant rating

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	Strands / 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	Strands / 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.