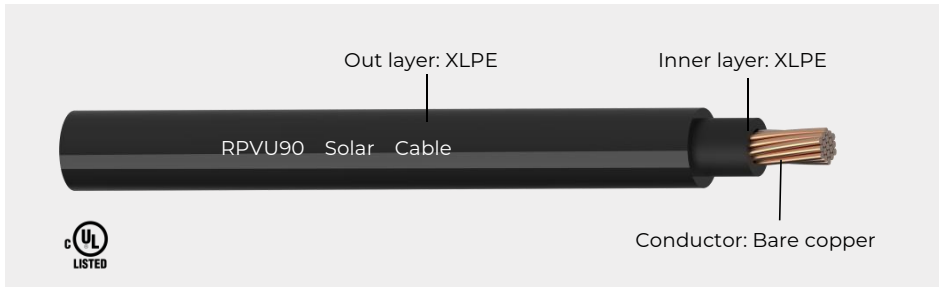


RPVU90, RPVU105 Solar Cable

Double Insulation



Advantage

- Direct burial
- UV resistance
- FT1 & FT2

Characteristics

- Temperature range
90°C, 105°C
- Rated voltage
1000 / 2000 V
- According to
CSA C22.2 NO.271
- Certificate Number
E 517066

Cable Structure

- Conductor
- Inner Layer
- Outer Layer

Bare copper conductor
XLPE All colour
XLPE All colour

Test Item

- UV-resistant
- Flame and smoke
- Cold bend and cold impact
- Deformation

acc. to CSA C22.2 NO. 38-18-5.15
acc. to CSA C22.2 NO. 38-18-5.14
acc. to CSA C22.2 NO. 38-18-5.11
acc. to CSA C22.2 NO. 38-18-5.12

Application

Solar photovoltaic cable for use in interconnection wiring of grounded and ungrounded photovoltaic power systems, suitable for ac and dc systems, in dry and wet locations. For exposed wiring where subjected to the weather, marked sunlight resistant "SUN RES" in all colours. For use in raceways, except that use in cable trays is permitted only for the interconnection of solar photovoltaic systems, in wet, damp, or dry locations, direct-burial.

Cross Section (kcmil)	Conductor Stranded O.D. (mm)	Insulation Inner layer (mm)	Insulation outer Layer (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max.(Ω/km, 20°C)
250	13.2	2.36	1.65	21.70±0.80	1458.2	0.142
300	14.2	2.36	1.65	22.70±0.80	1699.7	0.118
350	15.6	2.36	1.65	24.10±0.80	1936.6	0.101
400	16.6	2.36	1.65	25.10±0.80	2196.4	0.0885
450	17.8	2.36	1.65	26.30±0.80	2446.7	0.0787
500	18.7	2.36	1.65	27.20±0.80	2658.7	0.0709
550	19.5	2.87	1.65	29.00±1.00	2998.4	0.0644
600	20.4	2.87	1.65	30.00±1.00	3225.9	0.0590
650	21.2	2.87	1.65	30.80±1.00	3464.4	0.0545
700	22.0	2.87	1.65	31.60±1.00	3711.5	0.0506
750	22.9	2.87	1.65	32.60±1.00	3969.0	0.0472
800	23.5	2.87	1.65	33.00±1.20	4204.6	0.0443
900	25.0	2.87	1.65	34.60±1.20	4702.1	0.0393
1000	26.5	2.87	1.65	36.50±1.50	5227.8	0.0354
1250	29.7	3.55	2.41	42.50±1.50	6594.2	0.0283
1500	32.3	3.55	2.41	45.20±1.50	7804.9	0.0236

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Inner Layer Thickness (mm)	Outer Layer Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max. (Ω/km, 20°C)
14	1.8	1.16	0.38	5.00±0.20	38.2	8.62
12	2.4	1.16	0.38	5.60±0.20	53.0	5.43
10	3.0	1.16	0.38	6.20±0.20	73.7	3.41
8	3.7	1.35	0.76	8.10±0.20	124.9	2.14
6	4.3	1.69	0.76	9.40±0.20	185.2	1.35
4	5.5	1.69	0.76	10.60±0.30	267.7	0.848
3	6.1	1.69	0.76	11.20±0.30	323.4	0.673
2	6.9	1.69	0.76	12.00±0.30	393.9	0.534
1	7.7	2.02	1.14	14.20±0.30	536.4	0.423
1/0	8.6	2.02	1.14	15.20±0.50	651.2	0.335
2/0	9.6	2.02	1.14	16.20±0.50	790.8	0.266
3/0	10.7	2.02	1.14	17.20±0.50	944.0	0.211
4/0	12.1	2.02	1.14	18.70±0.50	1162.5	0.167