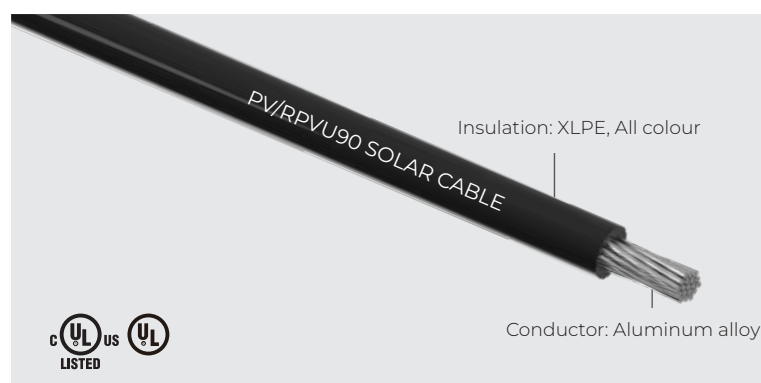


PV/RPVU90, RPVU105 Solar Cable Aluminum

Single Layer



Advantage

- Direct burial
- UV resistant
- VW-1/ FT1 & FT2
- More economical

Characteristics

- **Rated Voltage**
1000/ 2000V
- **Temperature Rating**
90°C, 105°C
- **According to**
UL4703, CSA C22.2 NO.271
- **Certificate Number**
E517066

Cable Structure

- **Conductor:** Stranded AA-8000 Series Aluminum Alloy
- **Insulation:** XLPE All colour

Test Item

- **Cold bend and cold impact** acc.to UL2556/CSA C22.2 NO. 38-18-5.11
- **Deformation** acc. to UL2556/CSA C22.2 NO. 38-18-5.12
- **Flame and smoke** acc. to UL2556/CSA C22.2 NO. 38-18-5.14
- **UV-resistant** acc. to UL2556/CSA C22.2 NO. 38-18-5.15

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 (AWG)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
8	3.7	2.15	8.20±0.30	66.4	3.52
6	4.3	2.15	8.80±0.30	83.8	2.21
4	5.5	2.15	10.00±0.30	114.2	1.39
3	6.1	2.15	10.60±0.30	133.8	1.10
2	6.9	2.15	12.40±0.30	179.1	0.875
1	7.7	2.66	13.30±0.50	215.3	0.693
1/0	8.6	2.66	14.20±0.50	255.0	0.550
2/0	9.6	2.66	15.20±0.50	302.8	0.436
3/0	10.7	2.66	16.30±0.50	355.1	0.346
4/0	12.1	2.66	17.80±0.50	429.0	0.274

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Single Layer

Cross Section (kcmil)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω /km, 20°C)
250	13.2	3.04	19.80±0.80	526.7	0.232
300	14.2	3.04	20.80±0.80	605.6	0.194
350	15.6	3.04	22.20±0.80	685.3	0.166
400	16.6	3.04	23.20±0.80	769.8	0.145
450	17.8	3.04	24.40±0.80	852.4	0.129
500	18.7	3.04	25.30±0.80	921.8	0.116
550	19.5	3.43	26.90±1.00	1048.4	0.106
600	20.4	3.43	27.80±1.00	1123.2	0.0967
650	21.2	3.43	28.60±1.00	1200.7	0.0893
700	22.0	3.43	29.50±1.00	1280.8	0.0829
750	22.9	3.43	30.30±1.00	1364.7	0.0774
800	23.5	3.43	31.00±1.20	1440.1	0.0725
900	25.0	3.43	32.50±1.20	1600.7	0.0645
1000	26.5	3.43	34.00±1.50	1769.9	0.0580
1250	29.7	3.94	38.50±1.50	2196.6	0.0464
1500	32.3	3.94	41.20±1.50	2580.6	0.0387

Note: Please refer to the above technical reference number for your reference, please check the technical section of our department for your request.