

SUNKEAN

2kV PV Wire Copper

Dual Layer



Advantage

-  Direct burial
-  UV resistant
-  VW-1
-  More economical

Characteristics

- **Rated Voltage**
1000/2000V
- **Temperature Rating**
90°C, 105°C
- **According to**
UL4703
- **Certificate Number**
E517066

Cable Structure

- **Conductor:** Copper conductor
- **Inner Layer:** XLPE All colour
- **Outer Layer:** XLPE All colour

Test Item

- **Cold bend and cold impact** acc.to UL2556
- **Deformation** acc. to UL2556
- **Flame and smoke** acc. to UL2556
- **UV-resistant** acc. to UL2556

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)	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	1.14	0.76	5.80±0.30	47.2	8.62
12	2.4	1.14	0.76	6.40±0.30	63.0	5.43
10	3.0	1.14	0.76	7.00±0.30	84.7	3.41
8	3.7	1.39	0.76	8.20±0.30	126.1	2.14
6	4.3	1.39	1.14	9.60±0.30	191.6	1.35
4	5.5	1.39	1.14	10.80±0.30	274.9	0.848
3	6.1	1.39	1.14	11.50±0.30	331.1	0.673
2	6.9	1.39	1.14	12.30±0.30	402.2	0.534
1	7.7	1.65	1.52	14.30±0.30	542.5	0.423
1/0	8.6	1.65	1.52	15.20±0.50	657.8	0.335
2/0	9.6	1.65	1.52	16.30±0.50	797.9	0.266
3/0	10.7	1.65	1.52	17.30±0.50	951.6	0.211
4/0	12.1	1.65	1.52	18.80±0.50	1170.9	0.167

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Cross Section (kcmil)	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)
250	13.2	1.90	2.03	21.60±0.80	1460.6	0.142
300	14.2	1.90	2.03	22.60±0.80	1702.4	0.118
350	15.6	1.90	2.03	24.10±0.80	1939.6	0.101
400	16.6	1.90	2.03	25.10±0.80	2199.6	0.0885
450	17.8	1.90	2.03	26.30±0.80	2450.1	0.0787
500	18.7	1.90	2.03	27.00±0.80	2662.4	0.0709
550	19.5	2.28	2.03	28.60±1.00	2989.3	0.0644
600	20.4	2.28	2.03	29.60±1.00	3216.7	0.0590
650	21.2	2.28	2.03	30.40±1.00	3454.9	0.0545
700	22.0	2.28	2.03	31.20±1.00	3701.8	0.0506
750	22.9	2.28	2.03	32.00±1.00	3959.2	0.0472
800	23.5	2.28	2.03	32.60±1.20	4194.6	0.0443
900	25.0	2.28	2.03	34.20±1.20	4691.8	0.0393
1000	26.5	2.28	2.03	35.80±1.50	5217.2	0.0354
1250	29.7	2.92	2.79	41.90±1.50	6575.2	0.0283
1500	32.3	2.92	2.79	44.50±1.50	7785.0	0.0236

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