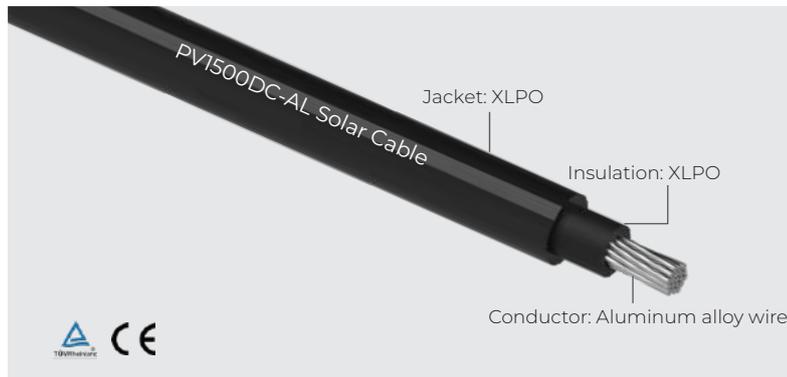


PV1500DC-AL Solar Cable



Advantage

-  UV resistant
-  Ozone resistance
-  Flame test IEC60332-3
-  More economical

Characteristics

- **Temperature Rating**
-40°C to +90°C
- **Max. Temperature At Conductor**
+120°C
- **Nominal Voltage**
AC U₀/U 1.0 / 1.0 kV
DC U₀/U 1.5 / 1.5 kV
- **Maximum Permissible DC Voltage**
1.8 kV
- **Min. Bending Radius**
Fixed installation 5x cable Ø
- **Approvals**
2PFG2642 R 50578871

Cable Structure

- **Conductor:** IEC60228 Class 2 aluminum alloy wire
- **Insulation:** XLPO black or red colour
- **Jacket:** XLPO black or red colour

Test Item

- **Halogen-free** acc. to IEC 62821-1
- **Flame Retardant** acc. to IEC 60332-1-2
- **Smoke Density** acc. to IEC 61034-2
- **UV-resistant** acc. to IEC62930 Annex E
- **Ozone-resistant** acc. to IEC 60811-403

Application

Aluminum alloy photovoltaic cable is designed for solar photovoltaic power generation system cable products, widely used in all aspects of solar photovoltaic power generation system, including the connection between photovoltaic modules, photovoltaic modules and inverter connection, inverter and grid connection. Especially in the field of large-scale ground photovoltaic power stations, distributed photovoltaic power stations and rooftop photovoltaic power stations, aluminum alloy core photovoltaic cables are more and more widely used.

Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Approximate Weight (kg/km)	Conductor Resistance Max (Ω/km, 20°C)
10	4.0	0.8	0.8	7.20±0.30	67	3.08
16	5.0	0.9	0.9	8.60±0.50	100	1.91
25	6.0	1.0	1.0	10.00±0.80	141	1.20
35	7.0	1.1	1.1	11.40±0.80	187	0.868
50	8.3	1.2	1.2	13.10±0.80	239	0.641
70	10.0	1.2	1.2	14.80±1.00	327	0.443
95	11.6	1.3	1.3	16.80±1.00	429	0.320
120	13.0	1.3	1.3	18.20±1.00	512	0.253
150	14.5	1.4	1.4	20.10±1.20	634	0.206
185	16.0	1.6	1.6	22.40±1.20	790	0.164
240	18.4	1.7	1.7	25.20±1.20	994	0.125
300	20.5	1.8	1.8	27.70±1.50	1227	0.1000
400	23.5	2.0	2.0	31.50±1.50	1644	0.0778

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