

## PV1500DC-AL DB Solar Cable



### Advantage

-  UV resistant
-  Ozone resistance
-  Suitable for direct burial
-  Flame test IEC60332-3
-  More economical

### Characteristics

- **Temperature Rating**  
-40°C to +90°C
- **Max. Temperature At Conductor**  
+120°C
- **Nominal Voltage**  
AC  $U_0/U$  1.0 / 1.0 kV  
DC  $U_0/U$  1.5 / 1.5 kV
- **Maximum Permissible DC Voltage**  
1.8 kV
- **Approvals**  
2PfG2642 R 50578871

### Cable Structure

- **Conductor:** IEC60228 Class 2 aluminum alloy wire
- **Insulation:** XLPO black or red colour
- **Cover:** XLPO
- **Armouring:** Steel tapes
- **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 60811-4-03

### 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 module and inverter connection, inverter and grid connection, especially in the field of large ground photovoltaic power plants, distributed photovoltaic power plants and rooftop photovoltaic power plants. The greatest advantage of the cable is that it can be buried directly.

Cross Section (mm <sup>2</sup> )	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)
1x10	4.0	0.8	1.5	12.00±0.80	177	3.08
1x16	5.0	0.9	1.5	13.20±0.80	224	1.91
1x25	6.0	1.0	1.5	14.50±1.00	278	1.20
1x35	7.0	1.1	1.5	15.70±1.00	335	0.868
1x50	8.3	1.2	1.5	17.20±1.00	401	0.641
1x70	10.0	1.2	1.5	19.00±1.20	511	0.443
1x95	11.6	1.3	1.6	21.00±1.20	636	0.320
1x120	13.0	1.3	1.6	22.40±1.20	737	0.253
1x150	14.5	1.4	1.7	24.30±1.20	882	0.206
1x185	16.0	1.6	1.7	26.20±1.20	1041	0.164
1x240	18.4	1.7	1.8	29.40±1.20	1302	0.125
1x300	20.5	1.8	1.9	32.30±1.50	1565	0.1000
1x400	23.5	2.0	2.0	35.90±1.50	2011	0.0778

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2x10	4.0	0.8	1.8	18.80±1.00	407	3.08
2x16	5.0	0.9	1.8	21.20±1.00	517	1.91
2x25	6.0	1.0	1.8	23.60±1.00	644	1.20
2x35	7.0	1.1	1.8	26.00±1.20	780	0.868
2x50	8.3	1.2	1.8	29.00±1.20	942	0.641
2x70	10.0	1.2	1.9	33.20±1.50	1248	0.443
2x95	11.6	1.3	2.0	38.70±1.50	1896	0.320
2x120	13.0	1.3	2.2	42.30±1.50	2250	0.253
2x150	14.5	1.4	2.3	45.90±1.50	2640	0.206
2x185	16.0	1.6	2.5	50.50±1.50	3171	0.164
2x240	18.4	1.7	2.6	56.50±1.80	3822	0.125
2x300	20.5	1.8	2.8	61.50±2.50	4541	0.1000
2x400	23.5	2.0	3.1	69.20±2.50	5829	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.