

# Photovoltaic equipment PV1-F cable

Single core

1.5-150mm<sup>2</sup>



## Product Description

Conductor:	Tinned copper strands, in line with IEC60228+EN60228, VDE0295,5 classes
Within Insulation:	UL4703 XLPE
Outer sheath:	UL4703 XLPE
Color code/Jacket color: (the other can be customized)	<input type="checkbox"/> Black/Black <input type="checkbox"/> Black/Blue <input type="checkbox"/> Red/Red <input type="checkbox"/> Blue/Black <input type="checkbox"/> Black/Red <input type="checkbox"/> Red/Black <input type="checkbox"/> Blue/Blue

## Technical Parameters

Rated voltage:	AC - U <sub>0</sub> /U 0.6/1kV   DC - 1.8kV
Test voltage:	AC - 6.5kV   DC - 15kV
Ambient temperature:	-40 - +90°C
Max. temperature at:	+120°C
Max.Short circuit temperature:	The permitted short-circuit-temperature refer to a period of 5s is 200°C
Ozone Resistance:	Accord wit EN50396
UV-resistance:	Accord wiht HD 605/A1
Flammability:	Accord with EN 60332-1-2

## Main Features

- Dual wall insulation, electron beam cross-linked.
- Excellent resistance to UV, water, ozone, fluids, salt, general weathering.
- Excellent resistance to abrasion.
- Halogen free, flame retardant, low toxicity.
- Excellent flexibility and stripping performance.
- High current carrying capacity.
- TUV and UL approved.

## Product specifications and parameters

Conductor			Insulation / Sheath Thickness		Maximum DC Resistance @20°C (Ohms/km)	Maximum AC Voltage (V/5min)	Outer Diameter (mm)	Approx Weight (kg/km)
Section (mm <sup>2</sup> )	Construction (n/mm)	Outer Diameter (mm)	Insulation (mm)	Outer Sheath (mm)				
1.50	12/0.22	1.70	0.70	0.70	13.700	6500	4.50	31.76
2.50	49/0.25	2.20	0.70	0.70	8.210		5.00	43.63
4.00	56/0.3	2.90	0.70	0.70	5.090		5.70	61.13
6.00	84/0.3	3.80	0.70	0.70	3.390		6.60	84.28
10.00	80/0.4	4.90	0.70	0.70	1.950		7.70	126.41
16.00	127/0.4	6.10	0.70	0.70	1.240		8.90	186.93
25.00	199/0.4	7.50	0.90	0.90	0.195		11.10	293.50
35.00	278/0.4	8.90	0.90	0.90	0.565		12.50	393.18
50.00	398/0.4	9.50	1.00	1.00	0.393		13.50	542.55
70.00	357/0.5	12.80	1.10	1.10	0.277		17.20	762.96
95.00	458/0.5	14.90	1.10	1.10	0.321		19.30	1005.05
120.00	611/0.5	16.70	1.20	1.20	0.164		21.50	1262.41
150.00	764/0.5	18.30	1.40	1.40	0.132		23.90	1585.57

## SUNPAL POWER CO., LTD.

Phone: +86 551 6586 5992  
 Email: info@sunpalpower.com  
 Website: www.sunpalpower.com

