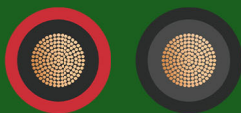


SOWELL SOLAR

**SOWELLSOLAR
Safety Solar
Photovoltaic
Cable**



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PV1-F 系列 / PV-F SERIES

SOLAR DC CABLE

PV1-F AC U0/U 0.6/1 KV DC 1.8KV

TUV Certificate / PPP59074A / B1161110002

Range of cross sectional area: 1.5mm²-35mm²

**10
YEARS
LIMITED
PRODUCT
WARRANTY**

**25
YEARS
SERVICE
LIFE**

Sowell Solar

SOLAR DC CABLE

PV1-F 系列 / PV-F SERIES

光伏直流电缆 / SOLAR DC CABLE

产品型号 PV1-F AC U0/U 0.6/1 KV DC 1.8KV

标称面积 Range of cross sectional area: 1.5mm²-35mm²

产品应用 Application

光伏发电系统用无卤交联聚烯烃双层光伏电缆。该电缆可与大多数光伏零部件相匹配，如光伏接线盒和光伏连接器，其系统额定电压为1000VDC，导体对导体间额定电压为1800VDC。Halogen free cross-linked polyolefin double layers photovoltaic cables for use at the photovoltaic power systems. This cable can match with most PV-components like PV-junction boxes and PV-connectors, which have a rated voltage of 1000 V DC.

电缆表面印字 Cable surface marking

TÜV SÜD PPP59074 PV1-F 1X ** mm² AC U0/U 0.6/1 KV DC 1.8KV DO NOT DISCONNECT UNDER LOAD SOWELLSOLAR

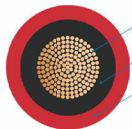
产品认证 TUV Certificate

PPP59074A

B1161110002

电缆设计 Cable design	
导体 Conductor	Tinned copper wires, according IEC 60228, Class 5
绝缘 Insulation	125°C Low-Smoke Halogen-Free Flame Retardant Polyolefins
护套 SHEATH	125°C Low-Smoke Halogen-Free Flame Retardant Polyolefins
特殊工艺 Special technology	Electron beam cross-linked

电气参数 Electrical characteristics	
额定电压 Rated voltage U0/U	AC 0.6/1KV DC 1.8KV (Between Conductors)
温度范围 Temperature range	-40°C up to +90°C
最高导体温度 Max. temperature at conductor	120°C
最小弯曲半径 Min. bending radius	5 x cable diameter
生产标准 Industry Standards	TÜV SÜD PPP59074A
抗拉强度及伸长率 Tensile strength and elongation	EN 60811-1-1
冷弯测试 Cold bending	EN 60811-1-4
耐热性能 Thermal endurance properties	EN60216-1 /-2
无卤测试 Halogen free	50525-1 Annex B
耐臭氧性 Ozone resistance	EN 50396, cl. 8.1.3
耐紫外光照射 Weathering /UV Resistance	HD 605/A1 & EN 60811-1-4
阻燃测试 Flame characteristics	IEC 60332-1-2



- Conductor: Copper, tin plated
- Insulation: 125°C XLPO, Cross-Linked
- Sheath: 125°C XLPO, Cross-Linked



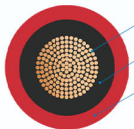
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SOLAR DC CABLE

Product selection table

部件代码 Part No.	导体截面积 Conductor cross section mm ²	导体构成 Strand design Number x Ø mm	直流电阻 Conductor resistance Ω / km 20°C	成品外径 Outer-Ømm	护套颜色 Sheath Color
PV1F-15B	1X1.5	30/0.25	13.70	4.1±0.1mm	Black
PV1F-15R	1X1.5	30/0.25	13.70	4.1±0.1mm	Red
PV1F-25B	1X2.5	49/0.25	8.21	4.5±0.1mm	Black
PV1F-25R	1X2.5	49/0.25	8.21	4.5±0.1mm	Red
PV1F-40B	1X4.0	56/0.282	5.09	4.92±0.1mm	Black
PV1F-40R	1X4.0	56/0.282	5.09	4.92±0.1mm	Red
PV1F-60B	1X6.0	84/0.282	3.39	5.50±0.1mm	Black
PV1F-60R	1X6.0	84/0.282	3.39	5.50±0.1mm	Red
PV1F-100B	1X10	77/0.4	1.95	6.55±0.1mm	Black
PV1F-100R	1X10	77/0.4	1.95	6.55±0.1mm	Red
PV1F-160B	1X16	126/0.4	1.24	7.80±0.1mm	Black
PV1F-160R	1X16	126/0.4	1.24	7.80±0.1mm	Red
PV1F-250B	1X25	196/0.4	0.795	9.00±0.1mm	Black
PV1F-250R	1X25	196/0.4	0.795	9.00±0.1mm	Red
PV1F-350B	1X35	273/0.4	0.565	10.20±0.1mm	Black
PV1F-350R	1X35	273/0.4	0.565	10.20±0.1mm	Red

* Dimensions and specifications may be changed without prior notice.



- Conductor: Copper, tin plated
- Insulation: 125°C XLPO, Cross-Linked
- Sheath: 125°C XLPO, Cross-Linked

