



SOLAR CABLE 6MM²

- UV and ozone resistant, hydrolysis resistant.
- High temperature resistance, service life of more than 25 years.
- Good flexibility, easy installation and laying.
- Halogen-free and low-smoke material, in line with environmental protection requirements.
- Compatible with all common connectors.



ELECTRICAL TECHNICAL REFERENCE

TECHNICAL INDICATORS	
Nominal voltage	U0/U 0.6/1KV(AC)1800DC(non-load)
Test voltage	AC6.5KV/5min(20°±0.5) or DC15KV/5min(20°C±0.5) without breakdown
Ambient temperature	-40°C~+90°C
Conductor maximum temperature	120°C
Maximum short circuit temperature	≤250°C/5s
Expected service life	25 years
Bending radius	≥4D
STRUCTURE	
conductor	Tinned copper flexible conductor of Class 5 in 2Pfg1169
Insulation	LSZH electron-beam cross-linked Polyolefin(125°C)
sheath	LSZH electron-beam cross-linked Polyolefin(125°C)
color	red or black
CHARACTERISTICS COMPLIANCE	
Fire-resistance	EN 60332-1-2
Acid and alkali solution	EN 60811-2-1
Halogen determination	EN 50267/EN 60684
Weather resistance/UV resistance	HD 605/A1
Compliance certification	ROHS TUV
Executive standard	2 Pfg 1169/08.2007

Structural dimensions and parameters

Model	Specification (mm ²)	Insulation Nominal Thickness (mm)	Sheath Nominal Thickness (mm)	Approximate outer diameter (mm)	Maximum DC resistance of conductor at 20°C (Ω/km)	Minimum insulation resistance at 90°C (mΩ/km)
PV1-F	6.0	≥0.5	≥0.5	6.2	3.39	0.50
PV1-F	6.0	≥0.5	≥0.5	5.35	3.39	0.50

Reference table for quick selection of carrying capacity

Cross-sectional area	Recommended value of ampacity (A)	Download traffic conversion factor for different ambient temperatures	
		Ambient temperature °C	Conversion factor
Copper conductor	Laying in the air		
6	70	30	1.0