

PV Cable

CABLE FOR PHOTOVOLTAIC POWER STATION

Photovoltaics Cable with Halogen-free and Flame Retardant

APPLICABLE STANDARD

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CONSTRUCTION

- Conductor: Tin-annealed copper
- Insulation: cross-linked polyolefin
- Outer sheath: cross-linked polyolefin, -40°C to 120°C

USAGE PERFORMANCE

- Voltage Level: U_0/U 0.6/1kV(AC) 1.8kV (DC)
- Max.permmissible working voltage: 0.6/1kV(AC), 1.8kV (DC)
- Test voltage: 6.5kV(AC), 15kV (DC) ,5min
- Temperature range: ambient temperature: -40°C to 120°C (fixed or movable), maximum temperature when is in short circuit (5s): $\leq 200^\circ\text{C}$
- Bending radius: $\geq 4D$ (D-diameter)
- Working life: ≥ 25 years

APPLICATION

This product is designed to operate at a normal maximum conductor temperature of 90°C with excellent weathering, UV and ozone resistance, and used at the direct current side of single flexible cables (wires) in photovoltaic systems under the class II security.

TECHNICAL DATA

Cross-sectional area	Conductor structure	DC Resistance at 20°C	Conductor diam.	Cable diam.	Approx. cable weight
mm ²	No./mm	Ω/km	mm	mm	kg/km
1.5	30/0.25	13.7	1.6	5.5	41.5
2.5	49/0.25	8.21	2	5.9	53.2
4.0	56/0.3	5.09	2.6	6.5	75.9
6.0	84/0.3	3.39	3.6	7.7	102.3
10	84/0.4	1.95	4.7	9.4	152.3
16	126/0.4	1.24	5.8	10.9	217.7
25	196/0.2	0.795	7.3	12.4	320.6
35	276/0.4	0.565	9.2	14.7	427.5

Note: Specifications contained herein reflect current data and are subject to change. Values are nominal or approximate, can be customized by your needs.