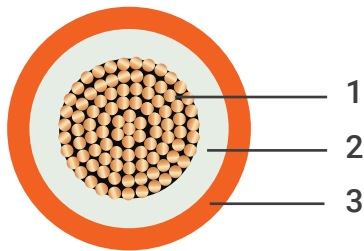


SOLAR CABLES

SOLAR CABLES, 1 CORE, MULTIPLE WIRES, TINNED COPPER CONDUCTOR, CORE INSULATION LAYER/ XL/XLPO JACKET.

CONFORMITY: Conforms to standards BS EN 50168, BS EN 60228, ASTM B-33



Structure:

- (1) Tinned copper conductor (level 5)
- (2) Inner insulation layer, halogen free
- (3) XL/XLPO jacket, Halogen free

- **Size:** 1x2.5 mm², 1x4 mm², 1x6 mm²
- **Appearance:**
 - Inner insulation layer: natural color
 - Jacket: black or orange
- **Specifications:**
 - Rated voltage U₀/U:
 - 1/1kV AC
 - 1.5/1.5kV DC
 - Maximum operating temperature of the conductor: 120°C
 - Minimum operating temperature of the conductor: -40°C
 - UV and Ozon resistance
 - Oil, Water, Acid and Base resistance
 - Low flammability reduce fire spread
 - Low smoke and toxic substance emission when burnt
 - RoHS conformity
 - Impact, tearing and abrasion resistance
 - High flexibility, easy and quick installation
 - Compatibility with standard connectors
 - Minimum bending diameter: 6 x D (D: outer diameter of the cable).
- **Application:**

The cable is used to connect the parts in the indoor and outdoor solar power system, with industrial machines and extreme weather.



Specifications

Nominal cross-section	Maximum conductor diameter	Cable diameter	Insulation layer thickness	Jacket thickness	Approximate outer diameter	Approximate weight
mm ²	mm	mm	mm	mm	mm	Kg/Km
1.5	0.26	1.58	0.7	0.8	4.6	31
2.5	0.26	2.04	0.7	0.8	5.0	42
4	0.31	2.58	0.7	0.8	5.6	58
6	0.31	3.16	0.7	0.8	6.2	79
10	0.41	4.23	0.7	0.8	7.2	126
16	0.41	5.18	0.7	0.9	8.4	182

We provide customized cable solutions tailored to the individual needs of our clients:

Nominal cross-section	Maximum cable's resistance at 20°C	Maximum insulation's resistance at 20°C	Maximum insulation's resistance at 90°C	Allowable current		
				Single cable placed in air	Single cable placed on surface	Two cables placed on surface
mm ²	Ω/km	MΩ.km	MΩ.km	A	A	A
1.5	13.7	860	0.86	30	29	24
2.5	8.21	690	0.69	41	39	33
4	5.09	580	0.58	55	52	44
6	3.39	500	0.50	70	67	57
10	1.95	420	0.42	98	93	79
16	1.24	340	0.34	132	125	107

- Ambient temperature: 60°C
- Maximum conductor's temperature: 120°C

Conversion factor according to ambient temperature

Ambient temperature	Conversion factor
≤ 60	1.00
70	0.92
80	0.84
90	0.75

