



# SAB solar cable

For almost 60 years SAB BRÖCKSKES has been a leading manufacturer of cable technique. Our company's philosophy bases on the development and permanent improvement of product quality.

D-VIERSEN · SAB solar 4,0 mm<sup>2</sup> · VDE-REG.-Nr. 8081 · TÜVSÜD-Bauart geprüft B 07126197

**The requirements of the DKE draft (AK 411.2.3\_2007) for the temperature index of +120°C are already fulfilled by SAB.**



- halogen-free
  - UV-resistant
  - with improved fire performance
  - certified acc. to TÜV SÜD
- Certificat No. B 071261971002



## Application:

Due to our permanent striving for innovative products in line with our efforts for environmental protection, we have focussed our attention on "renewable energy". As a consequence the SAB solar cable has been our latest development.

Already in 2005 about 800.000 solar systems were installed with upward tend. Every day the sun delivers a energy quantity going beyond eighty times the consumption of Germany. Furthermore, this source is free of charge and will be inexhaustible within the next billions of years. In future solar energy will conventional energy carriers such as oil or gas.

The SAB solar cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaik systems. The cable is suitable for various climatic conditions such as outdoor use as well as for fixed laying in dry, damp and wet rooms. Our solar cable is approved by the VDE and TÜV SÜD for a temperature range up to +110°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer sheath depending on the requirements of the customer.



# SOLARCABLE



halogen-free solar cable with improved fire and temperature performance

The requirements of the DKE draft ( AK 411.2.3\_2007) for the temperature index of +120°C are already fulfilled by SAB.

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VDE-REG.-Nr. 8081

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Marking for SAB solar 71913386:

## Construction:

Conductor :	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Primary insulation:	SABIX® 285
Color code primary insulation:	see table below
Secondary insulation:	SABIX® 285
Color code secondary insulation:	see table below

## Outstanding features:

- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- up to +125 °C
- weather resistant
- sunlight resistance
- with improved fire performance

## Technical data:

Nominal voltage U <sub>0</sub> /U:	0,6/1 kV (AC)
Testing voltage:	3500 V
Min. bending radius	
Ø ≤ 12 mm:	3 x d
Ø > 12 mm:	4 x d
Temperature range	VDE-REG.-Nr. 8081: up to +110 °C TÜV SÜD type tested B 071261971002: up to +110 °C
for installation:	
fixed laying:	-30/+125 °C
short circuit:	-40/+125 °C
+250 °C	
Halogen-free :	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Fire performance:	no flame propagation cable outer-Ø ≤ 6 mm acc. to EN 50305 section 9.1.2; cable outer-Ø > 6 mm bis ≤ 12 mm acc. to IEC 60332-3-25 + EN 50266-2-5; cable outer-Ø > 12 mm acc. to IEC 60332-3-24 + EN 50266-2-4; as well as flame retardant and self-extinguishing acc. to IEC 60332-1 + EN 50265-2-1
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Weather resistance:	very good acc. to EN ISO 4892-2
Hydrolysis resistance:	acc. to DIN VDE 0282-10
Ozone resistance:	acc. to DIN VDE 0282-2
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/14

item no.	nominal cross-section mm <sup>2</sup>	outer-Ø max. mm	copper figure kg/km	cable weight ≈ kg/km
7191 .. 82*	1,50	5,3	14,4	37
7191 .. 84*	2,50	5,7	24,0	48
7191 .. 86*	4,00	6,4	38,4	65
7191 .. 87*	6,00	7,4	57,6	93
7191 .. 88*	10,0	9,5	96,0	156
7191 .. 89*	16,0	10,9	153,6	227
7191 .. 90*	25,0	13,2	240,0	343

Other dimensions are possible on request.

Marking for primary insulation and secondary insulation		
Primary insulation / secondary insulation		
33 black / black	38 black / red	32 black / blue
83 red / black	88 red / red	22 blue / blue
23 blue / black		



suitable for protecting class II

