



**SAB**solar PV Wire halogen-free cable for photovoltaic systems

SAB solar 12 AWG · (UL) Photovoltaic Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C CE

Marking for SAB solar PV Wire 71813386:

SAB BRÖCKSKES · D-VIERSEN · SAB solar 12 AWG (UL) · Photovoltaic Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C CE

## Construction:

<b>Conductor :</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
<b>Primary insulation:</b>	SABIX® 285
<b>Color code primary insulation:</b>	see table below
<b>Secondary insulation:</b>	SABIX® 285
<b>Color code secondary insulation:</b>	see table below

## Outstanding features:

- UL Subject 4703 PV Wire
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- weather resistant
- sunlight resistance
- very good resistance against acids and alkaline solutions
- connection cable for photovoltaic modules acc. to NEC Section 690.31 (A)

## Technical data:

<b>Nominal voltage:</b>	600 V (AC)
<b>Testing voltage:</b>	3000 V (AC)
<b>Min. bending radius</b>	
Ø ≤ 12 mm:	3 x d
Ø > 12 mm:	4 x d
<b>Temperature range for ambient temperature:</b>	-40°C/+90 °C
<b>Halogen-free :</b>	no hydrogen chloride content acc. to EN 50267-2-1, no fluorine content acc. to EN 60684-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 VDE + 0482 part 267-2-2 no development of corrosive conflagration gases.
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 +EN 60332-1-2 and (UL) FT1
<b>Sunlight resistance:</b>	yes
<b>Weather resistance:</b>	very good
<b>Ozone resistance:</b>	acc. to EN 50396
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24

item no.	AWG	outer-ø max. mm	copper figure kg/km	cable weight ≈ kg/km
7181 .. 86	12	6,6	38,4	77
7181 .. 87	10	7,1	57,6	97
7181 .. 88	8	8,9	84,5	151

Other dimensions are possible on request.

## Marking for primary insulation and secondary insulation

Primary insulation / secondary insulation

33 black / black	23 blue / black
63 white / black	83 red / black

Other colours for the primary insulation possible on request.