



FLEXIBLE SPECIALITY CABLES

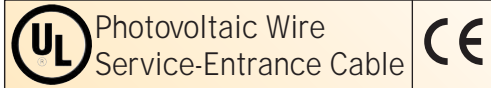
SAB^{solar} PV1-F with UL Halogen-free cable for photovoltaic systems

The requirements acc. to the DKE draft AK 411.2.3* are fulfilled.



B 110361971005

Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C CE



Marking for SAB^{solar} PV1-F with UL 71913346:
 SAB BRÖCKSKES · D-VIERSEN · SAB^{solar} PV1-F 4,0 mm² · VDE-REG.-Nr. 8292 · TÜVSüd-Bauart geprüft B 110361971005
 AWG12 (UL) Photovoltaic Wire 600V 90°C dry 90°C wet sunlight-resistant -40°C
 (UL) Service-Entrance Cable Type USE-2 600V Single Conductor CE



The SAB^{solar} PV1-F cable with improved fire performance and temperature resistance is particularly used as connection cable in photo-voltaic 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 for a maximum temperature at the conductor +120°C and suitable as electrical equipment of protection class II. The cable is available with black, red or blue outer jacket depending on the requirements of the customer.

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Construction:

Conductor:	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
Primary insulation:	SABIX® solar
Color code primary insulation:	see table below
Secondary insulation:	SABIX® solar
Color code secondary insulation:	see table below

Outstanding features:

- fulfills DKE draft AK 411.2.3*
- UL Subject 4703 PV Wire
- UL 854 USE-2
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- up to +120 °C
- weather resistant
- sunlight resistance
- with improved fire performance
- expected service life, up to 25 years
- very good resistance against acids and alkaline solutions
- connection cable for photovoltaic modules acc. to NEC Section 690.31 (A)
- ammonia resistance
- absence of marten attractants

Technical data:

Nominal voltage U_o/U:	0.6/1 KV (AC)	(UL): 600 V (AC)
Testing voltage:	6500 V (AC)	(UL): 3000 V (AC)
Min. bending radius:	∅ ≤ 12 mm ∅ > 12 mm	3 x O.D. 4 x O.D.
Temperature range:	VDE-REG.-no. 8292 as well as TÜV SÜD type tested B 110361971005: for ambient temperature: maximum temperature at the conductor: +120 °C for installation: -30/+120 °C fixed laying: -40/+120 °C shortcircuit: +250 °C (UL): -40°C/+90°C	
Zero halogen:	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2	
Corrossiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50257-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases	
Burning characteristics	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and (UL) FT1	
Sunlight resistance:	yes	
Weather resistance:	very good	
Ozone resistance:	acc. to EN 50396	
Ammonia resistance:	very good	
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/28	



item no.	nominal cross section mm ²	AWG	max. outer-∅ inch	mm	cable weight ≈ lbs/mft
➤ 7191 .. 46	4.00	12	0.268	6.8	53
➤ 7191 .. 47	6.00	10	0.295	7.5	77

Other dimensions are possible on request.

Marking for primary and secondary insulation		
Primary insulation / secondary insulation		
33 black / black	83 red / black	23 blue / black
83 white / black	Other colors are possible on request.	

*as of 12.02.2008

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