



FLEXIBLE SPECIALTY CABLES

The requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4 are fulfilled.



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

B 110361971005



+120 °C

VDE-REG.-Nr. 8292



TÜVSüd-Bauart geprüft B 110361971005 CE

Marking for SAB^{solar} PV1-F 71913386:
SAB BRÖCKSKES · D-VIERSEN · SAB^{solar} PV1-F 4,0 mm² VDE-REG.-Nr. 8292 · TÜVSüd-Bauart geprüft B 110361971005 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.

Construction:

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

Technical data:

Nominal voltage U₀/U:	0.6/1 KV (AC)
Testing voltage:	6500 V (AC)
Min. bending radius:	3 x O.D. ∅ ≤ 12 mm 4 x O.D. ∅ > 12 mm
Temperature range:	VDE-REG.-no. 8292 as well as TÜV SÜD type tested B 110361971005: up to +90 °C for ambient temperature: maximum temperature at the conductor: for installation: fixed laying: shortcircuit: +120 °C -30/+120 °C -40/+120 °C +250 °C
Zero halogen:	without hydrogen chloride acc. to EN 50267-2-1, without fluorine content acc. to EN 60684-2
Corrosiveness 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
Sunlight resistance:	yes
Weather resistance:	very good
Ozone resistance:	acc. to EN 50396
Ammonia resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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Outstanding features:

- ▶ fulfills the requirements acc. to the VDE application prescriptions VDE-AR-E 2283-4
- ▶ 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
- ▶ ammonia resistance
- ▶ absence of marten attractants

suitable for protecting class II

item no.	nominal cross section mm ²	AWG	max. outer-∅ inch	mm	cable weight ≈ lbs/mft
▶ 7191 .. 82	1.50	16 (≈ 27-29/30)	0.197	5.0	26
▶ 7191 .. 84	2.50	14 (≈ 46/30)	0.213	5.4	34
▶ 7191 .. 86	4.00	12 (≈ 52/28)	0.236	6.0	45
▶ 7191 .. 87	6.00	10 (≈ 78/28)	0.272	6.9	64
▶ 7191 .. 88	10.0	8 (≈ 77/26)	0.350	8.9	109
▶ 7191 .. 89	16.0	6 (≈ 122/26)	0.406	10.3	157
▶ 7191 .. 90	25.0	4 (≈ 190/26)	0.492	12.5	237
▶ 7191 .. 91	35.0	2 (≈ 272/26)	0.547	13.9	311

Other dimensions are possible on request.

Marking for primary 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	Other colors are possible on request.	

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