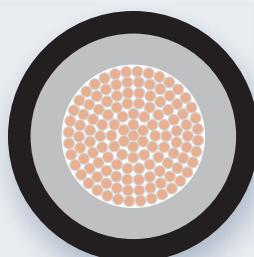


BETAflam® Solar 125 flex UL 1000 V

Photovoltaic power cables, halogen free, flame retardant



Advantages

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistant, the materials do not melt or flow
- Very long service life, good cold flexibility
- Compatible to all popular connectors
- Improved encapsulation properties

NEW

BETAflam® Solar 125 flex UL 1000 V

Applications

- Double insulated, electron-beam cross-linked cables for photovoltaic power applications.

Construction

- Conductor Tinned fine copper strands acc. to VDE 0295 / IEC 60228, class 5
- Insulation XLPO, flame retardant, halogen free, electron-beam cross-linked
- Jacket XLPO, flame retardant, halogen free, electron-beam cross-linked, UV and ozone resistant
- Jacket colour black

Electrical characteristics

Operation temperature	TÜV U₀ 1500 VDC (max. permitted voltage 1800 VDC)
	UL 1000 V
Test voltage	11 kV, 50 Hz, 5 min.

Thermal characteristics

Operation temperature	-40 °C up to +120 °C -40 °F up to +248 °F
Ambient temperature:	-40 °C up to +90 °C
> 25 years	-40 °F up to +194 °F
Short circuit temperature	280 °C, +536 °F, 5 s max.

Bending radius

Fixed installation	> 4 × Ø
Occasionally moved	> 5 × Ø

Standards / Material properties

- Fire performance: IEC 60332-1; UL 1581 1060 / VW1
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- Approvals: TÜV 2 PFG 1169/08.2007 PV1-F; TÜV 2 PFG 1990/05.2012 PV 1500 DC-F; UL 4703 PV wire
- Approvals (in progress): cTÜVus
- Application standards: NEC 2008 / UL PV wire; UNE 21123; UNE 20.460-5-52, UTE C 32-502

Dimensions, weights

Construction	Conductor Ø	Outer Ø	Resistance max.	Weight	Fire load	Order no.
n × mm ²	wmm	mm	mΩ/m	kg/km	kWh/m	
1 × 2.5 14 AWG	2.05	6.85	8.21	65	0.264	307009
1 × 4 12 AWG	2.55	7.05	5.09	76	0.287	307010
1 × 6 10 AWG	3.10	7.60	3.39	97	0.323	307011
1 × 10 8 AWG	4.10	9.70	1.95	162	0.512	307012

Order units

Construction	Order no.	Order no.	Order no.	Order no.
n × mm ²	18 × 500 m	8 × 1000 m	1 × 4000 m	1 × 5000 m
1 × 2.5 14 AWG	Ø	307009V3	Ø	307009V4
1 × 4 12 AWG	Ø	307010V3	Ø	307010V4
1 × 6 10 AWG	Ø	307011V3	Ø	Ø
1 × 10 8 AWG	Ø	Ø	Ø	Ø

More information on the standard packaging unit see transport conditions page page 19.
Further packaging units upon request.

Bold printed order no. = stock item
Further designs upon request.