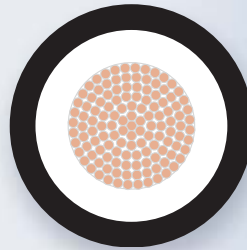


# BETAflam® Solar 125 flex FRNC

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
- Good cold flexibility
- Very long service life >25 years at 90 °C
- Compatible to all popular connectors

## BETAflam® Solar 125 flex FRNC

### 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	U <sub>0</sub> /U = 600 / 1000 V AC, 1000 / 1800 V DC
Test voltage	6500 V, 50 Hz, 5 min.

### Thermal characteristics

Operation temperature	-40 °C up to +125 °C -40 °F up to +257 °F
Ambient temperature	-40 °C up to +90 °C >25 years (TÜV) -40 °F up to +194 °F
Short circuit temperature	280 °C, +536 °F max.

### Bending radius

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

### Standards / Material properties

- Fire performance: IEC 60332-1, IEC 60332-3-24
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- Approvals: TÜV 2 PFG 1169/08.2007 PV1-F
- Application standards: 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 <sup>2</sup>	mm	mm	mΩ/m	kg/km	kWh/m	
1 × 2.5	2.05	5.50	8.21	52	0.117	<b>226111</b>
1 × 4	2.55	6.05	5.09	69	0.136	<b>224803</b>
1 × 6	3.10	6.95	3.39	96	0.174	<b>225577</b>
1 × 10	4.10	8.30	1.95	147	0.235	<b>302191</b>

### Order units

Construction	Order no.	Order no.	Order no.	Order no.	Order no.
n × mm <sup>2</sup>	18 × 500 m	8 × 1000 m	1 × 4000 m	1 × 5000 m	1 × 6000 m
1 × 2.5	226111V2	226111V3	Ø	Ø	Ø
1 × 4	224803V2	<b>224803V3</b>	Ø	Ø	224803V4
1 × 6	225577V2	<b>225577V3</b>	Ø	225577V4	Ø
1 × 10	Ø	Ø	Ø	Ø	Ø

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

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