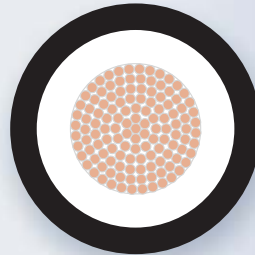


# BETAflam® Solar 125 flex UL 4703

Photovoltaic power cables, halogen free, flame retardant



LISTED  
PV wire  
USE-2



## 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
- Compatible to all popular connectors

## BETAflam® Solar 125 flex UL 4703

### 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  $U_0/U = 600/1000$  VAC,  
1000/1800 VDC

Test voltage 6500 V, 50 Hz, 5 min.

### Thermal characteristics

Operation temperature  $-40^\circ\text{C}$  up to  $+125^\circ\text{C}$   
 $-40^\circ\text{F}$  up to  $+257^\circ\text{F}$

Ambient temperature:  $-40^\circ\text{C}$  up to  $+90^\circ\text{C}$   
 $-40^\circ\text{F}$  up to  $+194^\circ\text{F}$

> 25 years (TÜV)

Short circuit temperature  $280^\circ\text{C}$ ,  $+536^\circ\text{F}$  max.

### Bending radius

Fixed installation  $> 4 \times \varnothing$

Occasionally moved  $> 5 \times \varnothing$

### 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; UL 4703 PV wire; UL 854 USE-2; cTÜVus
- Application standards: NEC 2008 / UL PV wire, USE-2; UNE 21123; UNE 20.460-5-52, UTE C 32-502

### Dimensions, weights

| Construction           | Conductor $\varnothing$ | Outer $\varnothing$ | Resistance max. | Weight | Fire load | Order no.     |
|------------------------|-------------------------|---------------------|-----------------|--------|-----------|---------------|
| $n \times \text{mm}^2$ | mm                      | mm                  | m $\Omega$ /m   | kg/km  | kWh/m     |               |
| 1 $\times$ 2.5 14 AWG  | 2.05                    | 6.50                | 8.21            | 67     | 0.169     | <b>226243</b> |
| 1 $\times$ 4 12 AWG    | 2.55                    | 7.05                | 5.09            | 86     | 0.192     | <b>224780</b> |
| 1 $\times$ 6 10 AWG    | 3.10                    | 7.60                | 3.39            | 109    | 0.214     | <b>226135</b> |
| 1 $\times$ 10 8 AWG    | 4.10                    | 9.30                | 1.95            | 155    | 0.256     | <b>302192</b> |

### Order units

| Construction           | Order no.         | Order no.         | Order no.         | Order no.         | Order no.         |
|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| $n \times \text{mm}^2$ | 18 $\times$ 500 m | 8 $\times$ 1000 m | 1 $\times$ 4000 m | 1 $\times$ 5000 m | 1 $\times$ 6000 m |
| 1 $\times$ 2.5 14 AWG  | <b>226243V2</b>   | <b>226243V3</b>   | $\varnothing$     | <b>226243V4</b>   | $\varnothing$     |
| 1 $\times$ 4 12 AWG    | $\varnothing$     | <b>224780V3</b>   | $\varnothing$     | <b>224780V4</b>   | $\varnothing$     |
| 1 $\times$ 6 10 AWG    | $\varnothing$     | <b>226135V3</b>   | <b>226135V4</b>   | $\varnothing$     | $\varnothing$     |
| 1 $\times$ 10 8 AWG    | $\varnothing$     | $\varnothing$     | $\varnothing$     | $\varnothing$     | $\varnothing$     |

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.