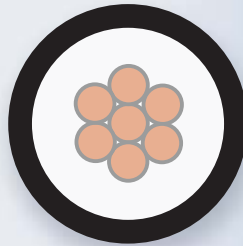


# BETAflam® Solar 125 UL 4703

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 life cycle > 25 years at 90 °C
- Compatible to all popular connectors

## BETAflam® Solar 125 UL 4703

### Applications

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

### Construction

- Conductor Tinned copper strands, acc. to VDE 0295 / IEC 60228, class 2
- 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 °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  $> 4 \times \varnothing$

### 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: UL 4703 PV wire; UL 854 USE-2
- Application standards: NEC 2008 / UL PV wire, USE-2

### 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 × 10 AWG	3.00	7.50	3.66	107	0.215	303326

### Order units

Construction	Order no.	Order no.	Order no.	Order no.	Order no.	Order no.
$n \times \text{mm}^2$	18 × 500 m	8 × 1000 m	1 × 4000 m	1 × 5000 m	1 × 6000 m	1 × 8000 m
1 × 10 AWG	$\varnothing$	<b>303326V3</b>	$\varnothing$	$\varnothing$	$\varnothing$	$\varnothing$

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.