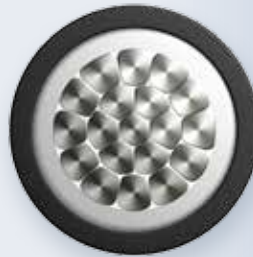
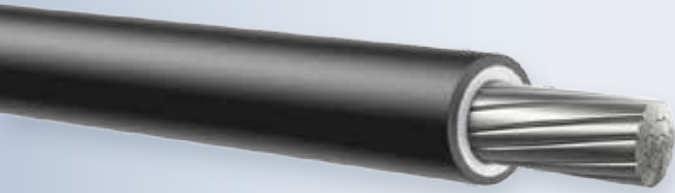


# BETAflam® Solar 125 RV AL FRNC

Photovoltaic power cables, halogen free, flame retardant



## Advantages

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistance, the materials do not melt or flow
- Good cold flexibility
- Very long service life >25 years at 90 °C

## BETAflam® Solar 125 RV AL FRNC

### Applications

Double insulated, electron-beam cross-linked cables for large-scale rooftop or photovoltaic power plants.

### Construction

- Conductor Aluminium, stranded wire, compacted, 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

Rated value	$U_0/U = 600 / 1000$ V AC, 1000 / 1800 V DC for fixed installation
Test voltage	6500 V, 50 Hz, 5 min.

### Thermal characteristics

Operating 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
Max. short circuit temp.	+280 °C, +536 °F / 5 s

### Bending radius

Fixed installation	$> 10 \times \varnothing$
Occasionally moved	$> 12 \times \varnothing$

### Standards / Material properties

- Fire performance: IEC 60332-1
- Halogen free: IEC 60754-1
- No corrosive gases: IEC 60754-2
- Low fire load: DIN 51900
- Environmentalty, EU-Directives: RoHS 2002/95/EC; PAH 2005/69/EC; PFOS 2006/122/EC
- Ozon resistant: EN 50396
- UV resistant: HD605
- Construction and properties:  
Based on TÜV 2 Pfg 1169/08.2007

Construction	Conductor $\varnothing$	Outer $\varnothing$	Resistance max.*	Voltage drop*	Weight	Order no.
$n \times \text{mm}^2$	mm	mm	m $\Omega$ /m	mV/Am	kg/km	
1 × 50	8.20	13.20	0.641	1.282	266	309110
1 × 70	9.90	14.90	0.443	0.886	341	309111
1 × 95	11.50	16.50	0.330	0.640	431	306756
1 × 120	12.85	18.50	0.253	0.506	551	309112
1 × 150	14.20	19.80	0.206	0.412	630	309113
1 × 185	16.40	22.40	0.164	0.328	788	309114
1 × 240	18.36	24.40	0.125	0.250	969	309115
1 × 300	20.45	27.25	0.100	0.200	1206	309116

\* at 20 °C