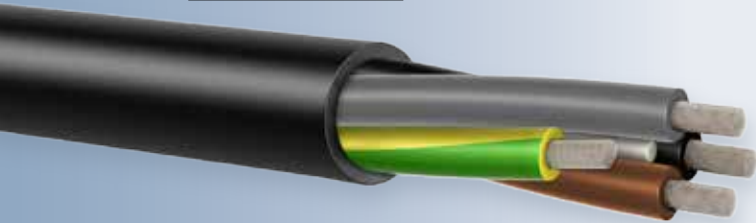


BETAflam® Solar 125 AC flex FRNC

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

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Applications

Double insulated, electron-beam cross-linked cables for the connection of micro inverters.

Construction

- Conductor Tinned fine copper strands, acc. to VDE 0295 / IEC 60228, Class 5
- Insulation XLPO, flame retardant, halogen free, electron-beam cross-linked
- Core identification ≤ 5 cores acc. to HD 30852
cores, black with white numbers with or without green/yellow core
- Jacket XLPO, flame retardant, halogen free, electron-beam cross-linked, UV and ozone resistant
- Jacket colour ● black

Electrical characteristics

Rated value $U_0/U = 450 / 750 \text{ V AC}$
Test voltage 6500 V, 50 Hz, 5 min.

Thermal characteristics

Operating temperature -40 °C up to $+120 \text{ °C}$ (20.000 h)
Ambient temperature
Fixed installation -40 °C up to $+90 \text{ °C}$
Occasionally moved -35 °C
Max. short circuit temp. $+280 \text{ °C}$

Bending radius

Fixed installation $> 6 \times \varnothing$
Occasionally moved $> 8 \times \varnothing$

Standards / Material properties

- Approvals: TÜV 2 PFG 1940 / 12.11
- Halogen free: IEC 60754-1
- No corrosive gases: IEC 60754-2
- Fire performance: IEC 60332-1; IEC 60332-3-24
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- UV resistant: HD 605

Construction	Conductor	Conductor \varnothing	Outer \varnothing	Weight	Fire load	Order no.
$n \times \text{mm}^2$	$n \times \text{mm}$	mm	mm	kg/km	kWh/m	
3 G 0.75	24 × 0.20	1.15	7.80	82	0.224	308074
4 G 0.75			8.70	104	0.293	308075
5 G 0.75			9.70	130	0.36	308076
3 G 1.0	32 × 0.20	1.25	8.00	91	0.24	308077
4 G 1.0			8.80	116	0.31	308078
5 G 1.0			9.80	145	0.38	308079
3 G 1.5	27 × 0.25	1.55	8.80	115	0.29	308080
4 G 1.5			9.80	147	0.37	308081
5 G 1.5			11.20	191	0.48	308082
3 G 2.5	45 × 0.25	2.05	10.20	164	0.37	308083
4 G 2.5			11.40	211	0.50	308084
5 G 2.5			12.60	262	0.59	308085
3 G 4.0	52 × 0.30	2.55	11.40	226	0.47	308086
4 G 4.0			12.90	294	0.60	308087
5 G 4.0			14.40	366	0.74	308088
3 G 6.0	78 × 0.30	3.10	12.90	307	0.60	308089
4 G 6.0			14.50	396	0.73	308090
5 G 6.0			16.30	498	0.92	308091