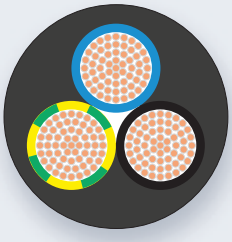
BETAflam® Solar 125 AC flex FRNC

Photovoltaic power cables, halogen free, flame retardant



Advantages

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistant, the materials do not melt or flow
- Very long life cycle > 25 years at 90 °C
- Compatible to all popular connectors

NEW

BETAflam® **Solar 125 AC flex FRNC**

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
■ Colour	Light blue, black, green-yellow or black with white numbers
■ Jacket	XLPO, flame retardant, halogen free, electron-beam cross-linked, UV and ozone resistant
■ Jacket colour	black

Electrical characteristics

Operation temperature	$U_0/U = 450 / 750$ V AC
Test voltage	6500 V, 50 Hz, 5 min.

Thermal characteristics

Operation temperature	– 40 °C up to + 120 °C (20,000 h)
Ambient temperature	
Fixed installation	– 40 °C up to + 90 °C
Occasionally moved	– 35 °C
Short circuit temperature	280 °C, 5 s. max.

Bending radius

Fixed installation	> 6 × ∅
Occasionally moved	> 8 × ∅

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

Dimensions, weights

Construction	Conductor	Conductor ∅	Outer ∅	Weight	Fire load	Order no.
n × mm²	n × mm	mm	mm	kg/km	kWh/m	LSA
3 G 0.75	24 × 0.20	1.15	7.60	82	0.224	308074
4 G 0.75	24 × 0.20	1.15	8.60	104	0.293	308075
5 G 0.75	24 × 0.20	1.15	9.60	130	0.36	308076
3 G 1.0	32 × 0.20	1.25	7.80	91	0.24	308077
4 G 1.0	32 × 0.20	1.25	8.80	116	0.31	308078
5 G 1.0	32 × 0.20	1.25	9.80	145	0.38	308079
3 G 1.5	27 × 0.25	1.55	8.70	115	0.29	308080
4 G 1.5	27 × 0.25	1.55	9.80	147	0.37	308081
5 G 1.5	27 × 0.25	1.55	11.20	191	0.48	308082
3 G 2.5	45 × 0.25	2.05	10.10	164	0.37	308083
4 G 2.5	45 × 0.25	2.05	11.40	211	0.50	308084
5 G 2.5	45 × 0.25	2.05	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	52 × 0.30	2.55	12.90	294	0.60	308087
5 G 4.0	52 × 0.30	2.55	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	78 × 0.30	3.10	14.50	396	0.73	308090
5 G 6.0	78 × 0.30	3.10	16.30	498	0.92	308091

Subject to change.