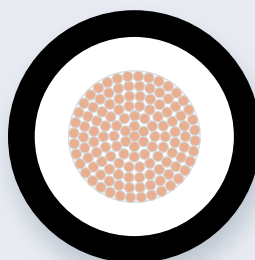


BETAflam® Solar 125 RV flex FRNC

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
- Flexible and space-saving installation

BETAflam® Solar 125 RV flex FRNC

Applications

Double insulated, electron-beam cross-linked cables for photovoltaic power applications. With reduced diameter and integrated jacket.

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	$U_0/U = 600 / 1000 \text{ V AC,}$ $1000 / 1800 \text{ V DC}$
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)
Short circuit temperature	280 °C, +536 °F max.	

Bending radius $\varnothing < 10 \text{ mm}$

Fixed installation	$> 4 \times \varnothing$	$> 5 \times \varnothing$
Occasionally moved	$> 5 \times \varnothing$	$> 7 \times \varnothing$

Standards / Material properties

- Fire performance: IEC 60332-1, IEC 60332-3-24
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- Approvals: TÜV 2 PfG 1169 08.2007 PV1-F
- Application standards: UNE 21123; UNE 20.460-5-52, UTE C 32-502



Dimensions, weights

Construction	Inscription	Conductor construction	Conductor \varnothing	Outer \varnothing	Resistance	Weight	Fire load	Order no.
$n \times \text{mm}^2$	Colour	$n \times \text{mm}$	mm	mm	max. m Ω /m	kg/km	kWh/m	
1 × 2.5	○ white	45 × 0.25	2.05	4.65	8.21	41	0.079	304467
1 × 4	○ white	52 × 0.30	2.55	5.05	5.09	56	0.086	304468
1 × 6	○ white	78 × 0.30	3.10	5.65	3.39	76	0.100	304469
1 × 10	○ white	75 × 0.40	4.10	6.70	1.95	118	0.126	304471
1 × 16	○ white	119 × 0.40	5.50	9.70	1.24	211	0.288	304472
1 × 25	○ white	182 × 0.40	6.60	11.20	0.79	304	0.369	304474
1 × 35	○ white	259 × 0.40	7.70	12.30	0.56	404	0.414	304475
1 × 50	○ white	380 × 0.40	9.90	14.90	0.39	582	0.558	304476
1 × 2.5	● red	45 × 0.25	2.05	4.65	8.21	41	0.079	307701
1 × 4	● red	52 × 0.30	2.55	5.05	5.09	57	0.086	306470
1 × 6	● red	78 × 0.30	3.10	5.65	3.39	77	0.100	306471

Order units

Construction	Inscription	Order no.	Order no.	Order no.	Order no.	Order no.
$n \times \text{mm}^2$	Colour	50 × 100 m	24 × 500 m	18 × 500 m	18 × 1000 m	8 × 1000 m
1 × 4	○ white	304468V8	304468V1	∅	304468V2	∅
1 × 6	○ white	304469V8	∅	304469V2	∅	304469V3
1 × 10	○ white	∅	∅	304471V2	∅	∅
1 × 4	● red	∅	306470V1	∅	306470V2	∅
1 × 6	● red	∅	∅	306471V2	∅	306471V3

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.