

BETAflam® Solar 125 RV flex 1500V DC

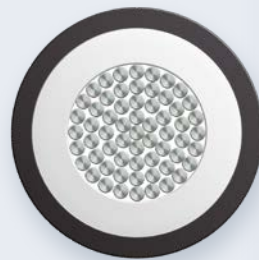
Photovoltaic power cable, halogen free, flame retardant

NEW



• BALIART
• GEPÜFT
• TYPE
• APPROVED

EN50618
certified



CPR

D_{ca}

Identification code
CCHDA0000021

Advantages

- EN50618 approval
- Electro-beam cross-linked compounds
- UV-, ozone- and hydrolysis resistant
- High temperature resistance, the material do not melt or flow
- Good cold flexibility
- Very long service life >25 years at 90 °C
- Compatible to all popular connectors

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Applications

Is used as photovoltaic cable between solar modules and inverters in a photovoltaic system with a rated value $U_0 = 1,5$ kV DC.

Construction

- Conductor Tinned fine copper strand according 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,
with white or red marking and strip
- Jacket colour ● black

Electrical characteristics

Rated value	$U_0 = 1500$ V DC (max. permitted voltage U_0 1800 V DC)
Test voltage	6,5 kV AC 50 Hz

Thermal characteristics

Operation temperature	-50 °C to +120 °C
Ambient temperature	-50 °C to +90 °C
Max. short circuit temp.	+280 °C, +536 °F/5 s

Bending radius

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

Standards / Material properties

- Fire performance: IEC 60332-1
- Smoke emission: IEC 61034; EN 61034-2
- Low fire load: DIN 51900
- Approvals: EN50618; H1Z2Z2-K

Fire properties according to the CPR

- D_{ca} -s2, d2, a2, EN 50575, EN 13501-6
- Fire performance D_{ca} : EN 50399
- Low corr. of the combustion gases: EN 60754-2 – halogen free a2
- Medium smoke density s2: EN 50399
- Flaming droplets d2: EN 50399
- No flame propagation: EN 60332-1-2
- RoHS-compliant material selection

Cable construction	Conductor \varnothing	Outer \varnothing	Resistance max. at 20°C	Weight	Fire Load
$n \times \text{mm}^2$	mm	mm	mΩ/m	kg/km	kWh/m
1×4	2,45	5,50	5,09	61	0,107
1×6	3,00	6,10	3,39	82	0,127

* Jacket colour black with red or white inscription

Nominal cross section	Order no.			
	1×100 m		1×500 m	
$n \times \text{mm}^2$	○ White	● Red	○ White	● Red
1×4	PVW10041--	PVW10042--	PVW50041--	PVW50042--
1×6	PVW10061--	PVW10062--	PVW50061--	PVW50062--