

BETAflam® Solar 125 RV flex 1500V DC

Photovoltaic power cables, halogen free, flame retardant

NEW



• BALIART
• GEPRÜFT
• TYPE
• APPROVED

EN50618
certified

CPR

D_{ca}

Identification code
CCHDA0000021

Advantages

- EN50618 approval
- 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
- 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 stripe**
- 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

Operating temperature	-50 °C up to +120 °C
Ambient temperature	-50 °C up 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

Nominal cross section	Conductor \varnothing	Outer \varnothing	Resistance max. at 20°C	Weight	Fire load	Order no.	
						○ White*	● Red*
$n \times \text{mm}^2$	mm	mm	mΩ/m	kg/km	kWh/m	○ White*	● Red*
1 × 2.5	2.05	5.00	8.21	46	0.093	313738	313739
1 × 4	2.45	5.50	5.09	61	0.107	313740	313741
1 × 6	3.00	6.10	3.39	82	0.127	313742	313743
1 × 10	4.10	7.20	1.95	126	0.158	313744	313745
1 × 16	5.00	8.50	1.24	190	0.213	313746	–
1 × 25	6.20	10.40	0.79	291	0.314	313747	–
1 × 35	7.70	11.90	0.56	400	0.392	313748	–
1 × 50	9.70	14.30	0.39	570	0.549	313749	–

* Jacket colour black with red or white inscription

Nominal cross section	Order no.					
	8 × 500 m		18 × 500 m		8 × 1000 m	
$n \times \text{mm}^2$	○ White*	● Red*	○ White*	● Red*	○ White*	● Red*
1 × 4	–	–	313740V2	313741V2	313740V3	313741V3
1 × 6	–	–	313742V2	313743V2	313742V3	313743V3
1 × 10	313744V3	–	–	–	–	–

More information on the standard packaging unit see page 34. Further packaging units on request.
Bold printed order no. = stock item * Jacket colour black with red or white inscription

Unter Angabe der Leistungserklärungs-Nummer können Sie auf unserer Website www.leoni.com/de/baupv die entsprechende Leistungserklärung herunterladen.