

Technical Data Sheet

BETAflam® Solar 125 RV flex 1500V DC

Description

Compact, double insulated, halogen free photovoltaic wire with sun light resistant. Integrated jacket. Single conductor, flame retardant, electron-beam cross-linked compounds.

Approval according

EN 50618:2014 and IEC 62930:2017 tested and certified by TÜV Rheinland, Germany

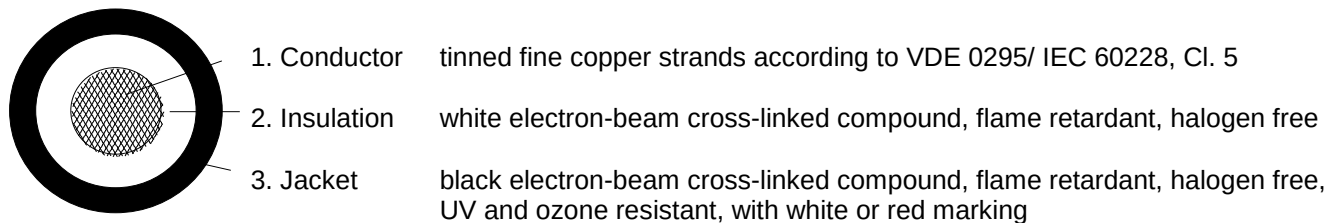
Application

Applicable as photovoltaic wire for modules and connection to the inverter of grounded and ungrounded photovoltaic power systems. The high quality electron-beam cross-linked components are offering UV and ozone protection at 90°C.



*complete labelling see page 2

Construction



Dimensions

Construction Nominal Section	Article - Nr.	Cond.-Ø	Cable-Ø	Resistance max.	Weight	Fire Load
[n x mm²]		[mm]	[mm]	mΩ/m	[kg/km]	[kWh/m]
1 x 2.5	313738	2.05	5.0 +/-0.2	8.21	46	0.093
1 x 4	313740	2.45	5.5 +/-0.2	5.09	61	0.107
1 x 6	313742	3.0	6.1 +/-0.2	3.39	82	0.127
1 x 10	313744	3.9	7.2 +/-0.2	1.95	126	0.158
1 x 16	313746	5.0	8.5 +/-0.5	1.24	190	0.213
1 x 25	313747	6.2	10.4 +/-0.5	0.79	291	0.314
1 x 35	313748	7.7	11.9 +/-0.7	0.56	400	0.392
1 x 50	313749	9.7	14.3 +/-0.7	0.39	570	0.549

Other dimensions or with red marking upon request.

Technical Data Sheet

BETAflam® Solar 125 RV flex 1500V DC

Labelling

LEONI BETAFLAM SOLAR 125 RV FLEX 1500V DC 1 X xxMM2 H1Z2Z2-K EN50618 / 62930 IEC 131

↑
Cross Section

HALOGEN FREE LOW SMOKE

↑
Production Lot Number
for internal purpose
Subject to modifications

Technical Data

Nominal voltage	U ₀ : 1500V DC (conductor-conductor and conductor-earth max. permitted voltage 1,8kV DC)
Test voltage	6,5 kV AC 50Hz
Temperature rating (20'000h)	+ 120°C
Ambient temperature	- 50°C up to + 90°C
Max. short circuit temperature	280°C / +536°F
Min. bending radius	fixed installation 4 x Ø occasionally moved > 5 x Ø

Material Properties / Standards

Design / Dimension	EN 50618:2014, IEC 62930:2017
Halogen free	EN 50267-2-1, EN 50267-2-2 EN 60684-2, IEC 62821-1
Flame retardant	EN/IEC 60332-1-2, EN/IEC 60332-3-25*
Low smoke emission	EN/IEC 61034-2
Resistance against acid and alkaline solution	EN 60811-2-1
Weathering/UV resistance	IEC 62930
Ozone resistance	EN 50396 72h/40 °C, method B Volume concentration 200x10 ⁻⁶
Low fire load*	DIN 51900
No hazardous and toxic substances*	EU-Directive: RoHS 2002/95/EC; PAH 2005/69/EC; PFOS 2006/122/EC
No corrosive gases*	EN/IEC 60754-2

*Additional properties not part of the TÜV Rheinland test requirements:

Material properties and technical data are subject to modifications.