



# Radox Solar Cable

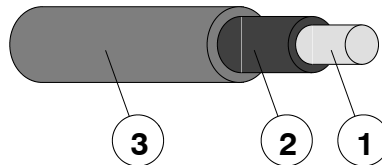
## General Properties :

Cable made of electron beam cross-linked insulation and sheath; excellent resistance to high and low temperature, oil, ozone, weathering and abrasion; limited fire hazard properties, low smoke, halogenfree, flame retardant, low toxicity, flexible, easy to strip, requires little space, mechanically extreme robust, extreme long-lasting.

## Application :

Especially designed for connecting photovoltaic system components inside and outside of buildings, where high mechanical stresses and extreme weathering conditions can occur. For permanent installation.

## General composition of cable :



1. Conductor : stranded tin plated copper
2. Insulation : Radox 125, colour : black
3. Sheath : Radox 125, colour : (see table below)

Printing on sheath : = 0000 = m H + S 12xxxxx-[zzzzz] SOLARKABEL .... mm<sup>2</sup> ( TÜV Rheinland Bauart-geprüft \*)

Production lot number

Metering

Table :

Size mm <sup>2</sup>	Conductor		Cable D <sub>nom</sub> mm	R <sub>20</sub> max Ω / km	Weight nom kg/100m	Colour (item. 3)	H + S Standard- Part. No.
	Construction** n x mm	D <sub>nom</sub> mm					
1.5	30 x 0.26	1.52 ± 0.05	4.3 ± 0.15	13.7	3.2	black	12 558 072
2.5 *	50 x 0.26	2.01 ± 0.05	5.2 ± 0.15	8.21	4.6	red	12 529 712
2.5 *	50 x 0.26	2.01 ± 0.05	5.2 ± 0.15	8.21	4.6	blue	12 529 713
2.5 *	50 x 0.26	2.01 ± 0.05	5.2 ± 0.15	8.21	4.6	black	12 529 714
4.0 *	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	5.09	6.6	red	12 545 801
4.0 *	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	5.09	6.6	blue	12 537 896
4.0 *	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	5.09	6.6	black	12 545 802
6.0 *	81 x 0.31	3.30 ± 0.10	6.9 ± 0.20	3.39	9.2	red	12 568182
6.0 *	81 x 0.31	3.30 ± 0.10	6.9 ± 0.20	3.39	9.2	blue	12 568183
6.0 *	81 x 0.31	3.30 ± 0.10	6.9 ± 0.20	3.39	9.2	black	12 552 756
10	78 x 0.40	4.30 ± 0.10	8.1 ± 0.15	1.95	14.4	black	12 537 897
16	119 x 0.40	5.30 ± 0.10	9.5 ± 0.20	1.24	21.0	black	12 567 377
25	182 x 0.40	6.60 ± 0.10	11.1 ± 0.20	0.779	29.6	black	12 567 378
35	266 x 0.40	7.80 ± 0.10	12.8 ± 0.25	0.565	41.7	black	12 567 379
50	378 x 0.40	9.30 ± 0.10	15.0 ± 0.25	0.393	60.2	black	12 567 380
70	348 x 0.50	11.40 ± 0.10	17.5 ± 0.30	0.277	80.8	black	12 567 381
95	444 x 0.50	12.80 ± 0.10	19.3 ± 0.30	0.210	103.1	black	12 567 382
120	551 x 0.50	14.60 ± 0.10	21.8 ± 0.30	0.164	126.0	black	12 567 383
150	722 x 0.50	16.80 ± 0.10	24.4 ± 0.30	0.132	161.7	black	12 567 384

\*\* Number of wires (typical value) x diameter of single wire (max. value)

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The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

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## Radox Solar Cable

### Technical Data :

Voltage rating .....	1000 .....	V DC	
	or .....	600/1000 .....	V AC
Test voltage 50 Hz, 1 min. ....	4000 .....	V	
Temperature range .....	- 40 to + 120 ..	°C	
Temperature range (TÜV) .....	- 40 to + 110 ..	°C	
Max. conductor temperature .....	at short circuit (max. 5s) ... + 280 .....	°C	
Min. bending radius .....	dia < 8 mm .....	4 x cable dia	
	dia ≥ 8 mm .....	6 x cable dia	

### The cables pass the following fire tests

Vertical flame spread of a single cable .....	IEC 60332-1, EN 50265-2-1	
Amount of halogen acid gas .....	0 mg/g .....	IEC 60754-1, EN 50267-2-1
Corrosivity of combustion gases .....	IEC 60754-2, EN 50267-2-3	
Smoke density .....	IEC 61034-2, EN 50268-2	

\* TÜV Rheinland type approved, certificate B 02210086

