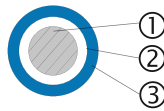
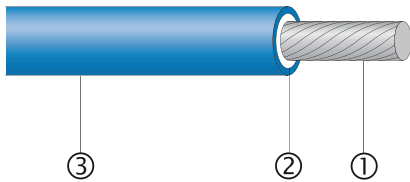


# RADOX® SOLAR cable

## Single core cable



- Nominal cross sections with TÜV approval
- Space saving outer diameter
- Long service life, extremely robust
- Electron beam, crosslinked insulation and sheath
- High resistance against heat, cold, oil, abrasion, ozone, UV and weather
- Improved characteristics in case of fire
- Halogen free, flame retardant
- Flexible, easy to strip

### Application

Specifically designed for connecting photovoltaic system components inside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions. For permanent installations.

### Composition of cable

① Conductor	stranded tin plated copper, fine wired, acc. to IEC 60228, class 5
② Insulation	RADOX®
③ Sheat	RADOX®
Colours	see table

### Technical data

Conductor resistance at 20 °C

TÜV:

voltage rating line to ground	$U_o$	see table
voltage rating line to line	$U$	600 V AC
maximum voltage line to ground		1000 V AC
maximum voltage line to line	$U_m$	660 V AC
maximum voltage line to ground	$V_o$	1100 V AC
maximum voltage line to line		1000 V DC
test voltage AC		1650 V DC
test voltage DC		3.5 kV
lower ambient temperature		8.4 kV
upper ambient temperature		-40°C
max. conductor temperature		+85°C
		+110°C

Min. bending radius

$D < 8 \text{ mm}$	4 x cable-Ø
$D \geq 8 \text{ mm}$	6 x cable-Ø

# RADOX® SOLAR cable

## Single core cable

### Fire tests

Flame propagation:

Vertical of a single cable

IEC 60332-1, EN 50265-2-1

Content of halogen acid gas

IEC 670754-1, EN 50267-2-1

0mg/g

Corrosivity of combustion gases

IEC 60754-2, EN 50267-2-3

Smoke density

IEC 61034-2, EN 50268-2

### Approvals (2.5 – 6.0 mm<sup>2</sup>)

Wires for photovoltaic-systems

RADOX® SOLAR cable

TÜV Rheinland 2 Pfg 1169  
certificate R02210086

### Extract from our delivery programme

Cross section mm <sup>2</sup>	Conductor		Cable Ø nom. mm	Weight nom. kg/100m	Colour	Item no.
	Construction nom. n x mm	R <sub>20</sub> IEC 60228 max. Ω/km				
1.5	30 x 0.25	1.52 ± 0.05	4.3 ± 0.15	3.2	black	12558072
2.5*	48 x 0.25	2.01 ± 0.05	5.2 ± 0.15	4.6	red	12529712
2.5*	48 x 0.25	2.01 ± 0.05	5.2 ± 0.15	4.6	blue	12529713
2.5*	48 x 0.25	2.01 ± 0.05	5.2 ± 0.15	4.6	black	12529714
4.0*	56 x 0.30	2.54 ± 0.05	5.8 ± 0.15	6.6	red	12545801
4.0*	56 x 0.30	2.54 ± 0.05	5.8 ± 0.15	6.6	blue	12537896
4.0*	56 x 0.30	2.54 ± 0.05	5.8 ± 0.15	6.6	black	12545802
6.0*	81 x 0.30	3.30 ± 0.10	6.9 ± 0.20	9.2	red	12568182
6.0*	81 x 0.30	3.30 ± 0.10	6.9 ± 0.20	9.2	blue	12568183
6.0*	81 x 0.30	3.30 ± 0.10	6.9 ± 0.20	9.2	black	12552756
10	78 x 0.40	4.30 ± 0.10	8.1 ± 0.15	14.4	black	12537897
16	119 x 0.40	5.30 ± 0.10	9.5 ± 0.20	21.0	black	12567377
25	182 x 0.40	6.60 ± 0.10	11.1 ± 0.20	29.6	black	12567378
35	266 x 0.40	7.80 ± 0.10	12.8 ± 0.25	41.7	black	12567379
50	378 x 0.40	9.30 ± 0.10	15.0 ± 0.25	60.2	black	12567380
70	348 x 0.50	11.40 ± 0.10	17.5 ± 0.30	80.8	black	12567381
95	444 x 0.50	12.80 ± 0.10	19.3 ± 0.30	103.1	black	12567382
120	551 x 0.50	14.60 ± 0.10	21.8 ± 0.30	126.0	black	12567383
150	722 x 0.50	16.80 ± 0.10	24.4 ± 0.30	161.7	black	12567384

\*Approvals: TÜV Rheinland design-tested, certificate R 02210086

Other cross sections and colours on request.