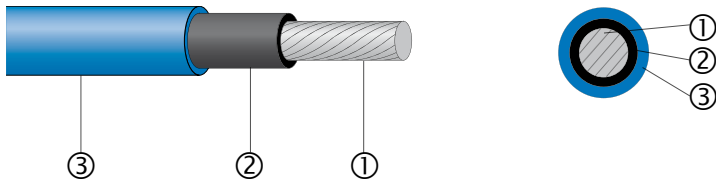


RADOX® SOLAR cable

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 EN 60228, class 5
② Insulation	RADOX® black
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-dia.
$D \geq 8 \text{ mm}$	6 x cable-dia.

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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 mm²)

Wires for photovoltaic-systems

RADOX® solar cable

TÜV Rheinland 2 Pfg 1169
certificate R02210086

Extract from our delivery programme

Cross section mm ²	Conductor		Cable dia. nom. mm	Weight nom. kg/100 m	Colour	Item no.
	Construction nom. n x mm dia.	R ₂₀ 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.