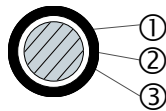
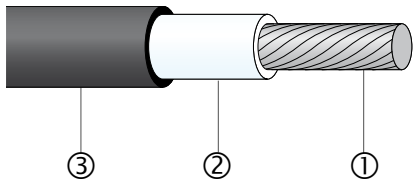


RADOX® SMART

Single core cable



- for all climate zones
- for reliable and durable connections
- with UL and TÜV approvals
- halogen free, flame retardant
- lean, powerful and flexible
- of proven RADOX® quality

Composition of cable

- ① Conductor
- ② Inner insulation
- ③ Outer insulation
Colour

stranded tin plated copper, fine wired, acc. to EN 60228, class 5
 RADOX® FI
 RADOX® FS
 black

Technical data

UL:	voltage rating	600 V AC
	test voltage	3.0 kV AC
	temperature rating	90 °C wet or dry, sunlight resistant
TÜV:	Voltage rating line to ground	U ₀ 600 V AC
	Voltage rating line to line	U 1000 V AC
	maximum voltage line to ground	V ₀ 1000 V DC
	maximum voltage line to line	1650 V DC
	test voltage AC	3.5 kV AC
	test voltage DC	8.4 kV DC
	lower ambient temperature	-40 °C
	upper ambient temperature	+85 °C
	maximum conductor temperature	+110 °C
Minimum bending radius		4 x cable-dia.

Application

- Type PV: Suitable for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in section 690.31 (A) and other parts of the National Electrical Code (NEC), NFPA 70. For single conductor, double-insulated wires installation without using a conduit is permitted according to section 690.35 (D) of the NEC.
- Type RHH oder RHW-2: Suitable for any of the wiring methods recognised in chapter 3 and as specified in their respective tables or as permitted elsewhere in the NEC.

Europe:

- Suitable for the installation methods reference no. 2, 3A, 4A, 5A, 11, 11A, 12, 13, 14, 15, 16, 21, 22A, 23A, 24A, 25, 31A, 32A, 33A, 41, 43, 51, 72, 73, 75 in table 52H of HD 384.5.52 (CH: SEV 1000 section 5.2; DE: DIN VDE 0100-520).

RADOX® SMART

Single core cable

Fire tests

flame propagation:

Vertical FT1

UL 1581 # 1060

$L \leq 250 \text{ mm}$, $T \leq 60 \text{ s}$

Vertical

EN 60332-1-2

IEC 60332-1-2

$50 < L \leq 540 \text{ mm}$

Content of halogen acid gas

EN 50267-2-1, IEC 60754-1

$\text{HCl} + \text{HBr} \leq 0.5\%$

Corrosivity of combustion gases

EN 50267-2-2, IEC 60754-2

$\text{pH} \geq 4.3$, $\sigma \leq 10 \mu\text{S}/\text{mm}$

Approvals

UL	Photovoltaic Wire	Type PV, UL subject 4703, UL listed E305787
UL	Thermoset-insulated Wires and Cables	Type RHH and RHW-2, UL 44, listed E310273
TÜV Rheinland	Wires for photovoltaic-systems	2 Pfg 1169, certificate R60017683

Extract from our delivery programme

Cross section		Conductor			Cable	Weight	Item no.
nom.		Constr. nom.	dia. nom.	R_{20} IEC 60228	dia.	nom.	
AWG	mm ²	n x mm dia.	nom. mm	max. Ω/km	mm	kg/100 m	
14	2.5	48 x 0.26	2.0	8.21	5.3 ± 0.10	5.1	12583222
12	4.0	61 x 0.29	2.5	5.09	6.05 ± 0.10	7.1	12583780
10	6.0	82 x 0.30	3.2	3.39	7.15 ± 0.15	9.9	12583781

Other cross sections and colours on request.