



RADOX[®] SOLAR

single core and multicore cables

halogen free, high temperature resistance, excellent weathering resistance, rugged design

RADOX Solar are flexible, single and multicore cables, designed for wiring solar power installations.

RADOX Solarcables are mechanically extremely robust and abrasion resistant. The high resistance to temperature and weathering together with the robustness result in a long service life. RADOX technology guarantees high precision cables with small outer diameters.

As a result of tight production tolerances RADOX cables can easily be processed, even with automated systems. This is also advantageous for potting, overmoulding and soldering. Further, the electron beam

crosslinked material does not shrink back or react otherwise when soldering. RADOX materials have no cold flow and therefore ensure longterm best possible pressure tightness for connectors or bushings.

RADOX Solarcables are halogen free and do not release any corrosive or toxic gases in the event of a fire. Smoke generation is minimal.

- Operating temperature -40°C to +120°C
- Short circuit overload up to +280°C
- Excellent UV-, Ozon, hydrolysis resistance
- High mechanical robustness and resistance to water, oils and chemicals
- RADOX[®] electron beam crosslinked materials do not melt or flow, even at high temperatures
- Compact and flexible
- Multicore cables with lightning protection
- For years in use, worldwide

RADOX® Solarcable single core



Conductor: stranded, tin plated copper, according to IEC 60228, class 5
 Insulation: RADOX® black
 Jacket: RADOX®, colors see table

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Certificate no. R 02210086

Cross-section mm ²	Conductor construction n x mm	Conductor dia. nom. mm	Cable dia. nom. mm	Color	Weight nom. kg/100 m	Part No.
2.5 **	50 x 0.26	2.01 ± 0.05	5.2 ± 0.15	black	4.6	12 529 714
4.0 **	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	red	6.6	12 545 801
4.0 **	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	blue	6.6	12 537 896
4.0 **	56 x 0.31	2.54 ± 0.05	5.8 ± 0.15	black	6.6	12 545 802
6.0 **	81 x 0.31	3.30 ± 0.10	6.9 ± 0.20	black	9.2	12 552 756
10	78 x 0.40	4.30 ± 0.10	8.1 ± 0.15	black	14.4	12 537 897
16	119 x 0.40	5.30 ± 0.10	9.5 ± 0.20	black	21.0	12 567 377

Selection of product range; other cross-sections and colors available on request

RADOX® Solarcable multicore



Conductor: stranded, tin plated copper, according to IEC 60228, class 5
 Insulation: RADOX®, colors see table
 Screen: tin plated copper braid, screen cross-section 10 mm², for lightning protection
 Jacket: RADOX® black

Cross-section n x mm ²	Conductor construction n x mm	Conductor dia. nom. mm	Core dia. nom. mm	Cable dia. nom. mm	Core colors	Weight nom. kg/100 m	Part No.
2 x 2.5/10	50 x 0.26	2.01 ± 0.05	3.50	11.9 ± 0.4	red, blue	26.5	12 543 278
2 x 10/10	78 x 0.40	4.30 ± 0.10	6.15	16.9 ± 0.5	red, blue	52.0	12 538 943
4 x 10/10	78 x 0.40	4.30 ± 0.10	6.15	19.9 ± 0.5	2 x red + 2 x blue	76.6	12 541 221

Other constructions available on request

Technical Specification

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

HUBER+SUHNER Group is certified according to
 ISO 9001 and ISO 14001

Waiver

While the information contained in this flyer has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the suitability of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The suitability of each product for any particular purpose must be checked beforehand with our specialists.



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