



Suncable®

SolarWorld Suncable International 1 x 4 mm²

The Suncable® International by SolarWorld is the perfect solution for all photovoltaic systems. Specifically developed for this purpose it forms a stable connection between solar generator and inverter.

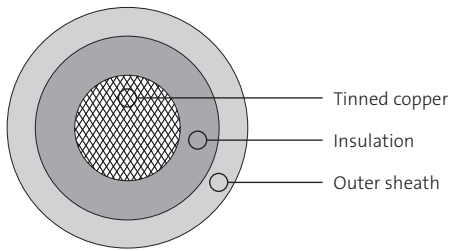
Its excellent mechanical properties and high weather resistance make the Suncable® International ideal for outdoor installations. Another safety bonus is the fact that it is halogen free, flame resistant and self-extinguishing. In case of fire there will be only slight smoke development and the emission of corrosive gases is prevented.

The high durability results from the use of special plastic mixtures, which make the Suncable® International very resistant against external influences such as UV, ozone, temperatures or chemicals. The double insulation prevents short circuit and earth-fault.



We turn sunlight into power.

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CONSTRUCTION

Conductor	Tinned fine copper strands, according to VDE 0295 / IEC 60228, class 5
Insulation	Polyolefin Copolymer electron-beam cross-linked
Outer sheath	Polyolefin Copolymer electron-beam cross-linked
Sheath colour	Black

TECHNICAL SPECIFICATION

Nominal voltage	U ₀ /U = 600 / 1000 V AC, 1000 / 1800 V DC
Test voltage	6500 V AC
Temperature rating	- 40 °C up to + 125 °C, - 40 °F up to + 257 °F
Ambient temperature	> 25 years (TÜV) - 40 °C up to + 90 °C, - 40 °F up to + 194 °F
Max. short circuit temperature	280 °C, + 536 °F
min. bending radius	≥ 4 × outer diameter
min. mounting temperature	-35 °C

STANDARDS / MATERIAL PROPERTIES

Fire performance	IEC 60332-1; UL 1581 1061 / VW1
Smoke emission	IEC 61034; EN 50268-2
Low fire load	DIN 51900
Approvals	TÜV 2 PfG 1169/08.2007 PV1-F; UL 4703 PV WIRE; UL 854 USE-2
Application standards	NEC 2008 / UL PV wire, USE-2; UNE 21123; UNE 20.460-5-52, UTE C 32-502
No hazardous and toxic substances	EU-Directive 2002 / 95 / EG (RoHS), PAK

	Suncable 1 x 4 mm²
Construction	1 x 4 mm ² / 12 AWG
Conductor diameter	2.55 mm
Outer diameter	7.1 mm
Weight	84 kg/km
Fire load	0.213 kWh/m

PRODUCT LABELLING

SolarWorld Suncable International 1 x 4 mm² FRNC JJMMTT S 600/1000 V AC 125 °C TÜV PV1-F / E320250 USE-2 / E300485 PV WIRE 12AWG 90C WET OR DRY 600V SUN RES -40C (UL)