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SOLAR CABLE PV 600/1000 V

FLEXIBLE COPPER CONDUCTOR PVC INSULATED, FOR USE IN PHOTOVOLTAIC APPLICATIONS OF RATED VOLTAGE U0/U: 600 / 1000V

Conductor construction:

1 – Copper tinned bunched wires class 5, according to IEC 60228;

2 – PVC insulation type TI4 according to SR EN 50363-3:2006, black color;

3 – PVC jacket type TM4 according to SR EN 50363-3:2006.

Jacket available colors : black. red, blue

Technical data:

** Reference standard : TUV 2 PFG 1169 / 08:2006, CEI 20-91*

** Resistance to Ozone : EN 50396; * Flame retardant : IEC 60332-1-2*

** UV resistance: HD 605 / A1 * Thermal Endurance: SR EN 60216 – 1*

** User Rated Voltage: U0 / U : 600/1000 Vac, 900/1800 Vdc*

** Test Voltage: 5000 V , 50 Hz, 300 s.*

** Minimum ambient temperature:*

- During installation: + 5 ° C – In operation: - 40 ° C

** Maximum permissible conductor temperature under normal operating conditions: + 90 ° C*

*Applications: * In photovoltaic systems, to interconnect the different elements.*

** These cables provide optimum connection between solar modules and between inverter the solar modules. Can be used outside, inside, or in protective pipes, but can not be used directly buried in the ground. Due to the double insulation cables can be used in installations with safety class II;*

** These cables are tested for thermal endurance, expected life time is 25 years;*

0	1	2	3	4	5
Cable section Cable type	Outside conductor Nominal value	Outside conductor diameter Informative value	Outside cable average dimensions		Maximum electrical resistance at 20 °C
			Lower limits	Upper limits	
	(mm^2)	(mm)	(mm)	(mm)	Ω / km
SOLAR PV 600/1000V	2,5	1.9	4.7	5.1	8.21
	4	2.4	5.2	5.6	5.09
	6	2.9	5.7	6.1	3.39
	10	4.0	6.8	7.2	1.95
	16	5.5	8.3	9.0	1.24
	25	6.4	10.0	10.7	0.795
	35	7.5	11.1	11.8	0.565