



WATTSON POWER

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DC CABLES

TECHNICAL INFORMATION

Contact:

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IBAN

NLS1 INGB 000 743 7547

KvK

661 71 458

BTW

NL 8564 26325 B01

BIC

INGBNL2A

Halogen Free Photovoltaic Power Cables, Flame Retardant, Low Smoke Emission, UV.



Consurations:

- 1- Tinned fine copper strands acc. to IEC60228, Class5
- 2- XLPO, flame retardant, halogen free compound
- 3- XLPO, flame retardant, halogen free compound

APPLICATIONS

They are used in solar power and solar energy production applications, solar cells and solar panel systems. It is suitable for usage in PV systems manufactured in compliance with HD 60364-7-712. Recommended service life is 25 years.

Permissible Operating Temperature	90°C
Operating Voltage (Rated Voltage)	1.0/1,0kV AC
Operating Voltage (max. Voltage Dc)	1.5 kV DC
Max. Short Circuit Temperature	250°C
Outer Sheet Colour	Contact us

TECHNICAL SPECIFICATIONS

Design Standards	EN 50618
Bending Radius	Fixed installation > 4 x D Occasionally move > 5 x D
Flame Retardant Test	IEC 60332-1
Low Smoke Test	IEC 61034-1, IEC 61034-2
Halogen Free Test	IEC 60754-1, IEC 60754-2
Long-term Behavior	EN 60216
Ozone Resistance Test	EN 50396
Weather/UV-Resistant	EN 50618, Appendix E

Cross Section (mm ²)	Nom. Outer Diameter (mm)	Max. DC Resistance (20°C) (Ohm/Km)	Current Carrying Capacity for Single Cable Free in Air (60°C Ambient Temp.) A	Current Carrying Capacity for Single Cable on a Surface (60°C Ambient Temp.) A	Delivery Length (M)
4,00	5,47 ± 0,2	5.090	55	52	1000
6,00	6,01 ± 40,2	3.390	70	67	1000

Temperature Correction Factor in Air: K1

Ground Temperature Correction Factor: K2

Ambient Temperature (°C)	Insulation XLPE/EPR	Ground Temperature (°C)	Insulation XLPE/EPR
10	1,15	10	1,07
15	1,12	15	1,04
20	1,08	20	0,96
25	1,04	25	0,93
35	0,96	35	0,89
40	0,91	40	0,85
45	0,87	45	0,80
50	0,82	50	0,76
55	0,76	55	0,71
60	0,71	60	0,65
65	0,65	65	0,60
70	0,58	70	0,53
75	0,50	75	0,46
80	0,41	80	0,38



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Consurations:

- 1- Tinned fine copper strands acc. to IEC60228, Class5
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APPLICATIONS

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Permissible Operating Temperature	90°C
Operating Voltage (Rated Voltage)	AC 1,0/1,0 kV ; DC 1,5 kV
Operating Voltage (max. Voltage Dc)	1.8/1.8Kv
Max. Short Circuit Temperature	250°C
Outer Sheet Colour	Contact us

TECHNICAL SPECIFICATIONS

Design Standards	EN 50618
Bending Radius	Fixed installation > 4 x D Occasionally move > 5 x D
Flame Retardant Test	IEC 60332-1
Low Smoke Test	IEC 61034-1, IEC 61034-2
Halogen Free Test	IEC 60754-1, IEC 60754-2
Long-term Behavior	EN 60216
Ozone Resistance Test	EN 50396
Weather /UV-Resistant	EN 50618, Appendix E

Cross Section (mm ²)	Max. Outer Diameter (mm)	Max. DC Resistance (20°C) (Ohm/km)	Current carrying capacity acc. to method of installation			Delivery Length (m)
			Single Cable free in air (A)	Single Cable on a Surface (A)	Two loaded cables touching on a surface (A)	
4,00	6,60	5,09	55	52	44	1000
6,00	7,40	3,39	70	67	57	1000

(Ambient temperature : 60°C , max. conductor temperature : 120°C, Operating temperature: -40°C ~+90°C)

(NOTE: The expected period of use at a max. conductor temperature of 120°C and at a max. ambient temperature of 90°C is limited to 20000h)

