

Halogen Free Photovoltaic PowerCables, Halogen Free, Flame Retardant, Low Smoke Emission, UV.



Consurations

- 1- Tinned fine copper strands acc. to IEC 60228, Class 5
- 2- XLPO, flameretardant, halogen free compound
- 3- XLPO, flameretardant, 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)

1.0/1,0 kV AC

Operating Voltage (Voltage Dc)

1.5 kV DC

Max.Short Circuit Temperature

250°C

Outer Sheet Colour

Contact With Us.

Technical Specifications

Desing Standarts

EN 50618

Bending Radius

Fixed installation > 4 × D
Occasionally move > 5 × 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 (Mt)
1,50	4,49 ±0,2	13,700	30	29	1000
2,50	4,93 ±0,2	8,210	41	39	1000
4,00	5,47 ±0,2	5,090	55	52	1000
6,00	6,01 ±0,2	3,390	70	67	1000
10,00	7,01 ±0,2	1,950	98	93	1000
16,00	8,45 ±0,2	1,240	132	125	1000
25,00	10,32 ±0,3	0,795	176	167	1000
35,00	11,50 ±0,3	0,565	218	207	1000
50,00	13,60 ±0,3	0,393	276	262	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