

POWER CABLES FOR PHOTOVOLTAIC INSTALLATIONS

APPLICATION

Used in photovoltaic installations for connections between individual photovoltaic panels and between the panels and the inverter.

STANDARD

PN-EN 50618:2015-03 and IEC 62930

CHARACTERISTICS

Rated voltage: 1,0/1,0 kV AC

Operating voltage: 1.5kV (1.8kV) DC, compliant with EN 50618, U0/U 1000/1000 VAC

Insulation resistance: 1000 MΩ/km

Max. wire temperature during wire operation +90°C

Max. conductor temperature during cable operation: +120°C/20000h

Min. ambient temperature for permanently installed cables: - 40°C

Minimum cable laying temperature: - 25°C

50Hz test voltage: 6500V (AC)

UV-resistant, ozone-resistant, weatherproof, according to EN 50618, IEC 62930

Increased resistance to hydrolysis and ammonia Increased resistance to alkalis and acids

Flame retardant to EN 60332-1, PN-EN 60332-1, IEC 60332-1

The cables meet the requirements of the PN-EN 61034-2, PN-EN 60754-2

Do not give off aggressive fumes when burning

Min. bending radius of the permanent connection: 4 x Ø

Expected lifetime: 25 years

CPR – Certificates/DoP

Reaction to fire: class Dca, classification in accordance with PN-EN 50575 (CPR)

Certificate No: 1200020 (complies with EN50618)

Possibility of direct underground cable laying certified by UL LLC Laboratory – NY USA – project no. 4790117513

Standard UL 854 Section 23 Impact-Resistance Test – item 24: Crushing-Resistance Test

CONSTRUCTION

Conductor: made of soft tinned copper wires class 5 according to PN-EN 60228

Insulation: cross-linked halogen-free plastic

Coating: cross-linked halogen-free plastic

Color of insulation: white

Coating color: black or red

PACKAGING

Shielding / Arming: as option with CuSn / FeZn wires

Packaging: Reels, spools

Available length: 50 m, 100 m, 500 m



MADE IN POLAND

Nominal conductor cross-section [mm ²]	4,00	6,00	10,00
Largest permissible wire diameter in conductor [mm]	0,31	0,31	0,41
Nominal insulation wall thickness [mm]	0,7	0,7	0,7
Nominal shell wall thickness [mm]	0,8	0,8	0,8
Max. outer diameter of the cable [mm]	6,6	7,4	8,8
Min. wire resistance at 20°C [MΩ.km]	5,09	3,39	1,95
Min. insulation resistance at 20°C [MΩ.km]	580	500	420