

POWER CABLES FOR PHOTOVOLTAIC INSTALLATIONS

APPLICATION

Used in photovoltaic installations for connections between individual solar panels and between the panels and the inverter. It is possible to use an anti-rodent agent in the wire insulation, to prevent damage to the ducts by rodents or termites.

STANDARD

PN-EN 50618:2015-03

CHARACTERISTICS

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

Operating voltage: 1.5kV (1.8kV) DC, acc. 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

Spark test 50Hz: 6500V (AC)

Higher UV-stability and weathering acc. EN 50618

Resistance against Ammonia

Resistance against acid and alkaline solution

Test for vertical flame propagation on complete cable: acc. EN 60332-1, IEC 60332-1

Smoke emission acc. PN-EN 61034-2, PN-EN 60754-2

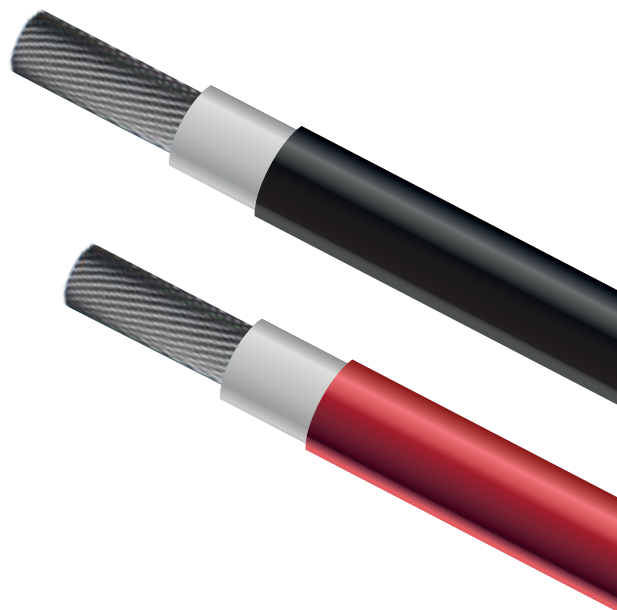
Min. bending radius of the permanent connection: 4 x Ø

Expected lifetime: 25 years

Construction Product Regulation: class B2ca-s1 ,d0,a1 , acc. EN 50575 (CPR)

Direct Burial UL 854: -Section 23 Impact-resistance Test -Section 24 Crushing-Resistance Test

Certificate No. : 1200020 (acc. EN50618)



MADE IN POLAND

CONSTRUCTION

Conductor: E-Cu tinned acc. IEC 60228 class 5

Insulation: Crosslinked special halogenfree compound

Outer sheath: Crosslinked special halogenfree compound

Insulation colour: white

Sheath colour: black or red

Screen: as option, galvanized steel wires

PACKAGING

Packaging: Spools

Available length: 500 m

Nominal conductor cross-section [mm²]	4,00	6,00
Largest permissible wire diameter in conductor [mm]	0,31	0,31
Nominal insulation wall thickness [mm]	0,7	0,7
Nominal shell wall thickness [mm]	0,8	0,8
Max. outer diameter of the cable [mm]	6,6	7,4
Min. insulation resistance at 20°C [MΩ.km]	580	500