

Standard:
PN-EN 50618:2015-03

General information:

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
Ambient temperature in operation: +90°C
Short-circuit temperature: +250°C (max. 5 sec on conductor)
Max. temperature at conductor: +120°C/20000h
Min. allowable ambient temperature: - 40°C
Min. allowable ambient 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
Bending radius: 4 x Ø
Expected period of use: 25 years
Construction Product Regulation: class Dca, acc. EN 50575 (CPR)
Direct Burial UL 854: -Section 23 Impact-resistance Test -Section 24 Crushing-Resistance Test
Certificate No. : 1200020 (acc. EN50618)

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, red, blue
Screen	as option, galvanized steel wires

Applications:

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.

Packing: Rolls, spools or drums.

Cross section	Max. diam. of single wire in conductor	Nominal insulation thickness	Nominal jacket thickness	Max. diam. of cable	Min. resistance of insulation at 20°C
mm ²	mm	mm	mm	mm	MΩ.km
2,5	0,26	0,7	0,8	5,9	690
4,0	0,31	0,7	0,8	6,6	580
6,0	0,31	0,7	0,8	7,4	500
10,0	0,41	0,7	0,8	8,8	420
16,0	0,41	0,7	0,9	10,1	340

Other cross sec. and construction on request.



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