H1Z2Z2-K AR

-40°C ÷ +90°C

Solar cables for photovoltaics systems





STANDARD:

- **PN-EN 50618:2015-03**

CHARACTERISTIC:

- Continuous working temperatures: - 40°C to + 90°C, max. +120°C/20000h
- Operating voltage: 1,5 kV (max. 1,8 kV) DC; Uo/U=1,0/1,0 VAC
- Rated voltage: 1,0/1,0 kV AC
- Ambient temperature in operation: +90°C
- Short-circuit temperature: +250°C (max. 5 sec. on conductor)
- Min. allowable ambient temperature: -40°C
- Min. allowable temperature: -25°C
- Spark test 50Hz: 6500V (AC)
- Higher UV-stability and weathering acc. EN 50618
- Resistance against ammonia
- Halogen-free, resistant to acids and alkalis
- 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 Regulations: B2ca
- Test certificate no.: 1250124 (acc. EN 50618)



CONSTRUCTION:

- Core: Soft-annealed Cu-ETP1 electrolytic tin-plated copper
  class 5 according to IEC 60228, DIN EN 13602.
- Insulation: Crosslinked special halogen free compound, color white.
- Outer sheath: Crosslinked special halogen free compound, color black, red or blue.
- Possibility of making galvanized steel wire FeZn reinforcement.

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 outer sheath, to prevent damage to the ducts by rodents or termites.

PACKING:



MG WIRES GROUP Sp. z o.o.

ul. Porcelanowa 23
PL 40-246 Katowice

ul. Cieszyńska 6
PL 43-520 Chybie

+48 692 253 898
+48 33 474 08 00

sprzedaz@mgwires.pl
zamowienia@mgwires.pl

NIP 5482679262 KRS 0000947336 REGON 366374725 www.mgwires.pl

TABLE DIMENSIONAL AND INSULATION VALUES:

Cross-section	Max. diam. of single wire in conductor	Nominal thickness insulation	Nominal jacket thickness	Outside diameter cable max.	Min. resistance of insulation at 20°C	Min. resistance of insulation at 90°C
[mm^2]	[mm]	[mm]	[mm]	[mm]	[MΩ*km]	[MΩ*km]
2,5	0,26	0,7	0,8	5,9	690	0,86
4	0,31	0,7	0,8	6,6	580	0,58
6	0,31	0,7	0,8	7,4	500	0,50
10	0,41	0,7	0,8	8,8	420	0,42
16	0,41	0,7	0,9	10,1	340	0,34
25	0,41	0,9	1,0	12,5	340	0,34

Other kinds of cross-sec., construction etc. available on request.

CURRENT CARRYING CAPACITY OF PV CABLES:

Cross-section	Current carrying capacity according to method of installation		
	Single cable free in air	Single cable on a surface	Two loaded cables touching, on a surface
[mm^2]	[A]	[A]	[A]
2,5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142


ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV

CERTIFICATE


NOTIFIED BODY No. 1488
INSTYTUT TECHNIKI BUDOWLANEJ
CERTIFICATION DEPARTMENT

CERTIFICATE OF CONSTANCY OF PERFORMANCE
1488-CPR-1038/W

Electric cables for photovoltaic installations H1Z2Z2-K

MG WIRES GROUP Sp. z o.o.
ul. Porcelanowa 23
40-246 Katowice
Poland

EN 50575:2014, EN 50575:2014/A1:2016


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