

Application:

The H1Z2Z2-K solar cable is a single wire that used in photovoltaic power supply systems. The cable is for suitable applications indoor and outdoor and can be installed directly in the ground without protection.

The wide working temperature range allows this cable to be used in extreme conditions. They also provide very good resistance to UV rays.


Construction

Conductor	Flexible tinned copper
Insulation Type	Compound conforming to EN 50618
Sheath Type	Compound conforming to EN 50618
Sheath Colour	Black, blue, red
Operating Temperature	-40°C +90°C
Short Circuit Temperature	Max +250°C (5 sec.)
Max. Core Temperature	+120°C (for 20.000 hrs.)
Test Voltage	6500 Vac – 15000 Vdc
Minimum Bending Radius	4 times the cable diameter for fixed and mobile laying

Standard References

Main Standard	EN 50618
UV Resistance	EN 50618
Conductor	EN 60228; IEC 60228
Self-Extinguishing	EN 60332-1-2; IEC60332-1-2
Ozone Resistance	EN 50396 8.1.3
AD8 Tested	EN 50525-2-21

Dimensions

Batt Part Number	Cross Section	Wires max diameter	Core thickness	Core diameter ± 0,1	Sheath thickness	Medium outer diameter ± 0,2	Electrical resistance at 20°C	Cable Approx. Weight	CU Factor
	(Nxmm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)	(kg/km)
26036 26037	1x4.00	0,300	0,72	3,80	0,80	5,4	5,0900	58	38,40
26038 26039	1x6.00	0,300	0,74	4,40	0,80	6,0	3,3900	78	57,60
26040 26041	1x10.00	0,400	0,73	5,40	0,80	7,0	1,9500	125	96,00
26042 26043	1x16.00	0,400	0,76	6,40	0,90	8,2	1,2400	184	153,60

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Current carrying capacity according to method of installation

Nominal cross sectional area (mm ²)	Single Cable free in air (A)	Single cable on a surface (A)	Two loaded cables touching, on a surface (A)
1x4.00	55	52	44
1x6.00	70	67	57
1x10.00	98	93	79
1x16.00	132	125	107

Note: Ambient temperature: 60°C. Max. conductor temperature: 120 °C.

Current rating conversion factors for different ambient temperatures

Ambient temperature (°C)	Conversion factor
Up to 60	1,00
70	0,92
80	0,84
90	0,75

Note: The conductor core temperature of 120 °C at a max. ambient temperature of 90 °C is suitable for up to 20.000hrs.

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