

BiT 1000[®]solar H1Z2Z2-K

Flexible single-conductor cables, for photovoltaic systems, acc. to EN 50618, IEC 62930



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 90 °C

Min. installation temp.: -15 °C

Max. conductor operating temp.: 120 °C

Max. conductor temp. in short-circuit:
250 °C

Electrical parameters:

Operating voltage:

AC: $U_0/U = 1,0/1,0$ kV

DC: $U = 1,5$ kV

Max. operating voltage DC: 1,8 kV

Test voltage: 6500 V

Insulation resistance: 20 MΩxkm

Mechanical parameters:

Min. bending radius: 4xØ

Max. pulling force:

During installation: 50 N/mm²

During operation (static): 15 N/mm²

Design:

Conductors:

tinned stranded copper conductors, multi-stranded class 5 acc. to EN 60228, IEC 60228

Insulation:

cross linked halogen-free compound

Outer sheath:

cross linked halogen-free compound, UV resistant and weatherproof, oil resistant, flame retardant acc. to EN 60332-1-2, IEC 60332-1-2, colour: black, red

Application:

BiT 1000[®]solar H1Z2Z2-K cables are designed to make connections between solar modules and between module sets, as well as to connect module sets to inverter. Thanks to the high environmental strength they are suitable for all kinds of photovoltaic systems, panels mounted on roofs of buildings and extended solar power plants also. The cables are halogen-free and can be safely installed in buildings. Flame propagation on single cable according to EN 60332-1-2, IEC 60332-1-2. Cables conform norm EN 50618 and IEC 62930. Estimated operation time: min 25 years. Cables classified according to **EN 50575 (CPR)**.

Certificate:

Cables in accordance with EN 50618:2014 and IEC 62930:2017



Cat. no.		n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cu [kg/km]	Conductor resistance at 20 °C [Ω/km]	Current-carrying capacity [A]
black	red						
S68201	S68201.05	1x4	5,5	61	38,4	5,09	55
S68202	S68202.05	1x6	6,0	80	57,6	3,39	70
S68203	S68203.05	1x10	7,1	128	96,0	1,95	98
S68204	S68204.05	1x16	8,2	187	153,6	1,24	132
S68205	S68205.05	1x25	10,4	305	240	0,795	176
S68206	S68206.05	1x35	11,7	392	336	0,565	218
S68207	S68207.05	1x50	13,7	540	480	0,393	276
S68208	S68208.05	1x70	15,6	760	672	0,277	347
S68209	S68209.05	1x95	17,6	982	912	0,210	416
S68210	S68210.05	1x120	19,0	1210	1152	0,164	488
S68211	S68211.05	1x150	21,7	1562	1440	0,132	566
S68212	S68212.05	1x185	24,8	1884	1776	0,108	644
S68213	S68213.05	1x240	27,0	2444	2304	0,0817	775

*Outer diameter tolerance: +/-%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

Note: On customer's request other cross sections or number of cores can be produced

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