

BiT 1000[®] solar H1Z2Z2-K PV



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



Technical data:

Operating temperature: -40°C do 90°C
Min. installation temperature: -15°C
Max. temperature of the core during operation: 120°C
Max. temperature of the core during short circuit: 250°C
Operating voltage:
 AC: U_i/U=1,0/1,0kV
 DC: U=1,5kV
Max. operating voltage DC: 1,8kV
Test voltage: 6500V
Min. bending radius: 4x∅
Max. pulling force:
 During installation: 50N/mm²
 During operation (static): 15N/mm²

Construction:

Conductors: tinned stranded copper conductors, multi-stranded class 5 acc. to EN 60228, IEC 60228
Insulation: special cross linked PE compound, halogen-free
Outer sheath: special cross-linked PE compound, halogen-free, oil and UV resistant, weatherproof
Sheath colour: black, red

Application:

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

Cat. no.		n x mm ²	Outer diameter ± 5% [mm]	Approximate cable weight [kg/km]	Cu [kg/km]	Conductor resistance at 20°C [Ω/km]	Current-carrying capacity [A]
black	red						
S68300	S68300.05	1x4	5,5	56	38,4	5,09	55
S68301	S68301.05	1x6	6,0	76	57,6	3,39	70

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