BiT 1000®solar PV

RoHS 2011/65/EU

LVD 2014/35/EU

CPR 305/2011

24 months warranty

Flexible single-conductor cables, for photovoltaic systems

internal application

external application

EN 60332-1
IEC 60332-1

high flexibility

halogen free
EN 60754

low smoke emission
EN 61034
IEC 61034

UV resistance

oil resistant
EN 60811-404
IEC 60811-404

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_0/U=1,0/1,0kV
DC: U=1,5kV
Max. operating voltage DC: 1,8kV
Test voltage: 6500V
Min. bending radius: 4xØ
Max. pulling force:
During installation: 50N/mm^2
During operation (static): 15N/mm^2

Construction:

Conductor: tinned, multi-stranded copper conductor, 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 color: black, red

Application:

BiT 1000®solar 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. Estimated operation time: min 25 years.

Cat. no.		n x mm^2	Outer diameter ± 5% [mm]	Approximate cable weight [kg/km]	Cu [kg/km]	Conductor resistance at 20°C [kg/km]	Current-carrying capacity [A]
black	red						
S68350	S68350.05	1x4	4,8	50	38,4	5,09	55
S68351	S68351.05	1x6	5,4	69	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