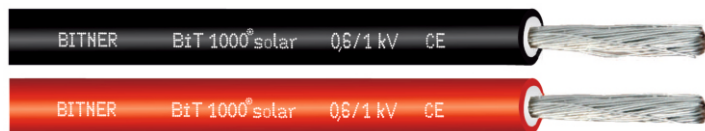


# BiT 1000<sup>®</sup>solar

Flexible single-conductor cables, for photovoltaic systems, 0,6/1kV



internal application



external application



EN 60332-1



high flexibility



halogen-free  
EN 60754



low smoke emission  
EN 61034



UV resistance



oil resistant  
EN 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:  $U_0/U=1,0/1,0$  kV

DC:  $U=1,5$  kV

Max. voltage DC: 1,8 kV

**Test voltage:** 6500V

**Min. bending radius:** 4x $\varnothing$

**Max. pulling force:**

During installation: 50N/mm<sup>2</sup>

During operation (static): 15N/mm<sup>2</sup>

## Construction:

**Conductors:** tinned stranded copper conductor, multiwire, class 5 acc to EN 60228

**Insulation:** special cross linked halogen-free compound

**Outer sheath:** special cross linked halogen-free compound, UV resistant and weatherproof, oil resistant

**Sheath color:** black, red

## Application:

BiT 1000<sup>®</sup>solar 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 (EN-50265-1), IEC 60332-1. Cable construction is based on EN 50618 and IEC 62930. Estimated operation time: min 25 years.

Cat. no.		n x mm <sup>2</sup>	Outer diameter [mm]	Cable weight [kg/km]	Cu [kg/km]	Conductor resistance at 20°C [Ω/km]	current carrying capacity *) [A]
black	red						
S66462	S66462.05	1x4	4,8	56	38,4	5,09	55
S66463	S66463.05	1x6	5,4	76	57,6	3,39	70

\*) – load of single cable in ambient temperature 30°C

Cable Factory BITNER reserve the right to change specifications without prior notice

NOTE: On request we produce cables with different cross section