

CERTIFICATE

no.: TM 61000494.002



Licence holder

Zakłady Kablowe Bitner Sp. z o.o.
ul. Józefa Friedleina 3/3
30-009 Kraków

Manufacturing plant

Zakłady Kablowe Bitner Sp. z o.o.
ul. Krakowska 2
32-353 Trzyciąż

Project number

26100541

Our reference

SD/84971620

Certificate validity period

from 09.07.2020 to 08.07.2025

Basis of research

EN 50618:2014

IEC 62930:2017

TÜV Rheinland Polska Sp. z o.o. declares that the product described below meets the requirements contained in the reference documents:

Single-conductor flexible cables for photovoltaic installations

- BiT 1000® SOLAR H1Z2Z2-K 1x4mm² – 1x240mm²

outer sheath colour red and black

Details in the certificate attachment

TÜV Rheinland Polska Sp. z o.o.
ul. Wolności 347,
41-800 Zabrze, Polska
Tel.: (+48/32) 271 64 89
e-mail: post@pl.tuv.com



Product certification body


Tomasz Opaszowski

Zabrze, 09.01.2024

This certificate is subject to the Certification Terms and Conditions and the JCW TRP General Transaction Conditions and applies only to the products that are compliant with the standard used for compliance assessment. This certificate alone does not entitle the holder to affix the CE mark. This certificate entitles the holder to affix the product with the TÜV mark.



Safety
Regular
Production
Surveillance



www.tuv.com
ID 0000073078

 **TÜVRheinland®**
Precisely Right.

www.tuv.pl



Licence holder Zakłady Kablowe BITNER Sp. z o.o.
 ul. Józefa Friedleina 3/3
 30-009 Kraków

Product Single-conductor flexible cables for photovoltaic installations
 BiT 1000® SOLAR H1Z2Z2-K 1x4mm² – 1x240mm²
 outer coating colour red and black

Intended for use in PV installations e.g. acc. to HD 60364-7-712. They are intended for permanent use outdoor and indoor, for free movable, free hanging and fixed installation. Installation also in conduits and trunkings on, in or under plaster as well as in appliances.

Suitable for the application in/at equipment with protective insulation (protection class II).

They are inherently short-circuit and earth fault proof acc. to HD 60364-5-52.

The product complies with the requirements of the PN-EN EN 50618:2014; IEC 62930:2017 and the following parameters.

Table. 1 Current carrying capacity of PV cables

Nominal cross sectional area mm ²	Current carrying capacity according to method of installation		
	Single cable free in air	Single cable on a surface	Two loaded cables touching, on a surface
	A	A	A
1,5	30	29	24
2,5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176
50	276	262	221

Product certification body

Tomasz Opaszowski



TÜVRheinland®
 Precisely Right.



Licence holder Zakłady Kablowe BITNER Sp. z o.o.
 ul. Józefa Friedleina 3/3
 30-009 Kraków

Product Single-conductor flexible cables for photovoltaic installations
 BiT 1000® SOLAR H1Z2Z2-K 1x4mm² – 1x240mm²
 outer coating colour red and black

70	347	330	278
95	416	395	333
120	288	464	390
150	566	538	453
185	644	612	515
240	775	736	620

Ambient temperature: 60 °C (see Table 1 for other ambient temperatures) max. conductor temperature: 120 °C

NOTE The expected period of use at a max. conductor temperature of 120 °C and at a max. ambient temperature of 90 °C is limited to 20 000 h.

Table. 2 Load convention factor for different ambient temperatures

Ambient temperature °C	Conversion factor
do 60	1,00
70	0,92
80	0,84
90	0,75

Weather and UV resistance according to EN 50618, IEC 62930, EN 50289-4-17
 Methods A, EN ISO 4892-1, EN ISO 4892-2

Product certification body

Tomasz Opaszowski



TÜVRheinland®
 Precisely Right.