

CERTIFICATE

no.: TM 61000777.001



Licence holder

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

Manufacturing plant

Zakłady Kablowe BITNER Sp. z o.o.
ul. Krakowska 2
32-353 Trzyciąż, PL

Project number

26100867

Our reference

SD/84983048

Certificate validity period

od 09.07.2025 do 08.07.2030

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 1x4 mm² – 1x240 mm²

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, 09.07.2025

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 TUV mark.



Type Approved
Safety
Regular Production
Surveillance



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Attachment to the certificate TM 61000777.001

Licence holder Zakłady Kablowe BITNER Sp. z o.o.
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30-009 Kraków

Product Single-conductor flexible cables for photovoltaic installations
BiT 1000® SOLAR H1Z2Z2-K 1x4 mm² – 1x240 mm²
outer coating colour red and black

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

The cables are 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 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 A	Single cable on a surface A	Two loaded cables touching, on a surface 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

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Product	Single-conductor flexible cables for photovoltaic installations BiT 1000® SOLAR H1Z2Z2-K 1x4mm ² – 1x240mm ² outer coating colour red and black
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70	347	330	278
95	416	395	333
120	488	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 Current rating conversion factors for different ambient temperatures

Ambient temperature °C	Conversion factor
up to 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 and EN ISO 4892-2

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