



Classification Report No.: 221204-01/01 CLASS

1. Introduction

This classification report defines the classification assigned to **H1Z2Z2-K / 62930 IEC 131 1,5 kV DC** in accordance with the procedures given in ČSN EN 13501-6: ed.2:2019 (EN 13501-6:2018)



**CLASSIFICATION OF REACTION TO FIRE
FOR ELECTRIC CABLES
IN ACCORDANCE WITH ČSN EN 13501-6: ed.2:2019 (EN 13501-6:2018)**

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Notified Body No.:	1014
Product name:	H1Z2Z2-K / 62930 IEC 131 1,5 kV DC
Classification report No.:	221204-01/01 CLASS
Issue number:	1
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2. Details of classified product

2.1 General

The product **H1Z2Z2-K / 62930 IEC 131 1,5 kV DC** is defined as Electric Cables for Photovoltaic Systems according to ČSN EN 50575 (EN 50575)

2.2 Product description

The product **H1Z2Z2-K / 62930 IEC 131 1,5 kV DC** is described below

Standard:

EN 50618:2014 – IEC 62930:2017

Rated voltage:

1.5 kV DC

Conductor:

Class 5 Flexible Tinned Copper according to EN 60228

Insulation:

GRAFTED HALOGEN FREE, FLAME RETARDANT AND LOW SMOKE EMISSION COMPOUND, CURABLE BY EXPOSURE TO MOISTURE FOR CABLE INSULATION

Core identification:

According to EN 50618:2014

Outer sheath:

GRAFTED HALOGEN FREE, FLAME RETARDANT AND LOW SMOKE EMISSION COMPOUND, CURABLE BY EXPOSURE TO MOISTURE FOR CABLE SHEATING

3. Reports and results in support of this classification

3.1 Reports

Enter details of report here as applicable

Name of Laboratory	Name of sponsor	Report ref. No.	Test method and date/field of application rules and date
ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p.	YUSUF KABUKÇU NAK KABLO ELEKTRİK MLZ. İNŞ. İTH. İHR. SAN. TİC. LTD. ŞTİ. Address: Bozburun Mah. 7045 Sokak No:9 DENİZLİ – TÜRKİYE	221204-01/01	EN 60332-1-2
			EN 50399
			EN 60754-2

3.2 Results

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter - mean m	Compliance with parameters
ČSN EN 60332-1-2	Flame spread H ≤ 425 mm	2	73	P
ČSN EN 50399	FS [m]	2	1,12	P
	peak HRR _{avg class} [kW]		27,4	P
	peak SPR _{avg class} [m²/s]		0,46	P
	THR _{1200s class} [MJ]		10,4	P
	TSP _{1200s class} [m²]		14,8	P
	FIGRA _{class} [W.s ⁻¹]		85,0	P
	Flaming droplets/particles		d2	Yes, it burns longer than 10 s
ČSN EN 60754-2	pH	2	1,39	P
	Conductivity [µS/mm]		5,82	P
N/A – not applicable, P – Pass, F – Fail				

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with ČSN EN 13501-6 (EN 13501-6).

4.2 Classification

The product **H1Z2Z2-K / 62930 IEC 131 1,5 kV DC** in relation to its reaction to fire behaviour is classified:

D_{ca}

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d2

The additional classification in relation to acidity is:

a1

The format of the reaction to fire classification for electric cables is:

Fire behaviour		Smoke production			Flaming droplets			Acidity	
D_{ca}	-	s	1	,	d	2	,	a	1

i.e. **D_{ca} – s1,d2,a1**

Reaction to fire classification: D_{ca}-s1,d2,a1

4.3 Field of application

This classification is valid for the family of Electric Cables for Photovoltaic Systems **H1Z2Z2-K / 62930 IEC 131 1,5 kV DC** described in section 2 and listed below as determined in the extended application process (**EXAP**) according to CLC/TS 50576:2016

Cable Identification	Reaction to Fire Classification
H1Z2Z2-K / 62930 IEC 131 1x 1.50mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 2.50mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 4.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 6.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 10.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 16.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 25.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 35.00mm ²	Dca-s1,d2,a1
H1Z2Z2-K / 62930 IEC 131 1x 50.00mm ²	Dca-s1,d2,a1

Intended use of the product:

They are used in Solar Power and Solar Energy production applications and Solar panel systems. It is suitable for usage in PV Systems manufactured in compliance with IEC 62930:2017 / EN 50618:2014.

5. Limitations

This classification will be valid until:

- The test method remains unchanged
- Product standard or technical approval remains unchanged
- Constructional or material modifications do not exceed limits of the field of application defined in section 4.3.

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Regulation.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

SIGNED

signature of person undertaking classification

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Josef Malý

APPROVED

signature of person authorizing this report

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Miroslav Sedláček