



CLASSIFICATION REPORT

of reaction to fire for electric cables

1 Introduction

This classification report defines the classification assigned to the cable types
U/UTP CAT6A, F/UTP CAT6/CAT6A 23AWG LSZH
in accordance with the procedures given in EN 13501-6.

CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH EN 13501-6

Importer:	Sunpro Redes y Sistemas S.L. Calle del Horno, 84-85 45230 Numancia de la Sagra Toledo Spain
Prepared by:	VDE Prüf- und Zertifizierungsinstitut GmbH* Merianstraße 28, 63069 Offenbach, Deutschland
Notified Body No:	0366*
Product name:	U/UTP CAT6A, F/UTP CAT6/CAT6A 23AWG LSZH
Classification report No:	5020671/23a-1
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This classification report consists of 6 pages and may only be used or reproduced in its entirety.

* To be used for CE marking only



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2 Details of classified product

2.1 General

The product *U/UTP CAT6A, F/UTP CAT6/CAT6A 23AWG LSZH* is defined as an *electric cable**¹.

* To be used for CE marking

2.2 Product description

The product *U/UTP CAT6A, F/UTP CAT6/CAT6A 23AWG LSZH* is described below or is described in the reports provided in support of classification listed in 3.1.

Product description:

Designation of cable family acc. to standard: N/A

Underlying standard / specification: Data Sheet: Doc No.: QEH/HT J351-2022, Ver.: A1.0;
Issue: 2022/05/26

Relevant design information:

Design and dimensions (of conductor): Solid bare copper, 4x2x23AWG

Used materials: Insulation: HDPE-8380

Rip cord: 150D

Cross skeleton: LSZH-ZR01

Tape: Polyester 24*0.025mm

Sheath: DW9023B-CPR-E

Sheath wall thickness (average): 0,65 mm

Number of cores: ☐ Single core ☒ Multi core

Concentric shield: ☐ Includes ☒ Does not include

Armouring: ☐ Includes ☒ Does not include

Constructional elements relevant for defining the cable family: (e.g. metallic tapes, non-combustible tapes...)

Screen: Al foil F/UTP, Overlap rate $\geq 25\%$

¹ Definition according to EN 50575.



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3 Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of importer	Report ref. no.	Test method and date
VDE Institute	Sunpro Redes y Sistemas S.L.	306865-TL6-3	2023-10-12 ☒ EN 60332-1-2 ☒ EN 50399 ☒ EN 61034-2 ☐ EN 60754-2
VDE Institute	Sunpro Redes y Sistemas S.L.	306865-TL6-6	2023-10-12 ☐ EN 60332-1-2 ☐ EN 50399 ☐ EN 61034-2 ☒ EN 60754-2





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3.2 Results

Test method and test number	Parameter	No. tests ²	Results ³	
			Continuous parameter – mean m	Compliance with parameters
Test for vertical flame propagation for a single insulated wire or cable (EN 60332-1-2)	H	1	N/A	Compliant
Heat release and smoke production measurement on cables during flame spread test (EN 50399)	Flame spread	1	0,7 m	N/A
	THR ₁₂₀₀		4 MJ	N/A
	HRR _{av}		17 kW	N/A
	FIGRA		121 W/s	N/A
	TSP ₁₂₀₀		5 m ²	N/A
	SPR _{av}		0,03 m ² /s	N/A
	Flaming drop-lets / particles		N/A	Compliant d0
Measurement of smoke density of cables burning under defined conditions (EN 61034-2)	Minimum value of transmission	1	92 %	N/A
Determination of acidity (by pH measurement) and conductivity (EN 60754-2)	Conductivity	1	0,3 µS/mm	N/A
	pH		5,4	N/A

² According to EN 13501-6: Number of individual measurements necessary to obtain a result value; does not refer to the number of tests through the application of EXAP rules according to TS 50576.

³ When applying EXAP rules according to TS 50576, only the results that contribute to the classification are listed.



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4 Classification and field of application

4.1 Reference of classification

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

4.2 Classification

The product *U/UTP CAT6A, F/UTP CAT6/CAT6A 23AWG LSZH* in relation to its reaction to fire behaviour is classified⁴:

C_{ca}

The additional classification in relation to smoke production is:

s1a

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

d0

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
C_{ca}	- s 1a	, d 0	, a 1

i.e.: **C_{ca}-s1a,d0,a1**

⁴ On request of the client, a lower classification than possible based on the results listed in clause 3.2 has been carried out.



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4.3 Field of application

This classification is valid for the following product parameters as determined in the expanded application process according to CLC/TS 50576:

No application of CLC/TS 50576, the report is only valid for the cable type described in section 2.2.

The classification is valid for all end use applications.

5 Limitations

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

SIGNED

H. Schneider

Creator of the classification report

APPROVED

A. Herzog

Head of the Notified Body
Construction Products Regulation

