



Classification Report No.: 021925-01/01 CLASS

## 1. Introduction

This classification report defines the classification assigned to **SF-UTP Cat5e LSZH 01** 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)

<b>Sponsor:</b>	Caleb Cable Industrial Ltd. 107 Luyuan Rd, Keyuancheng, Tangxia, Dongguan City, Guangdong Province, People republic of China
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<b>Notified Body No.:</b>	1014
<b>Product name:</b>	SF-UTP Cat5e LSZH 01
<b>Classification report No.:</b>	021925-01/01 CLASS
<b>Issue number:</b>	1
<b>Date of issue:</b>	05.10.2020

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## 2. Details of classified product

### 2.1 General

The product **SF-UTP Cat5e LSZH 01** is defined as communication cables according to ČSN EN 50575 (EN 50575)

### 2.2 Product description

The product **SF-UTP Cat5e LSZH 01** is described below

**Standard:**

ISO/IEC 11801:2011 (Ed. 2.2);  
IEC 61156-5:2012 (Ed. 2.1);  
ANSI/TIA-568-C.2:2009

**Conductor:**

Copper (Bare or Tinned)

**Insulation:**

The insulation material is PE

**No.of pairs:** 4 pairs

**Core identification:**

Blue, White	Orange, White
Green, White	Brown, White

**Wrapper:**

Wrapper material is PET

**Shielding:**

Al-pet and wire braiding

**Outer sheath:**

The sheathing material is LSZH

### 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.	Caleb Cable Industrial Ltd. 107 Luyuan Rd, Keyuancheng, Tangxia, Dongguan City, Guangdong Province, People republic of China	021925-01/01	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	1	116	P
ČSN EN 50399	FS ≤ 1,5 m	1	0,68	P
	peak HRR <sub>avg class</sub> [kW]		18,3	P
	peak SPR <sub>avg class</sub> [m²/s]		0,045	P
	THR <sub>1200s class</sub> [MJ]		4,0	P
	TSP <sub>1200s class</sub> [m²]		5,7	P
	FIGRA <sub>class</sub> [W.s <sup>-1</sup> ]		105,9	P
	Flaming droplets/particies		d1	YES ≥ 10s
ČSN EN 60754-2	pH	1	7,43	P
	Conductivity [µS/mm]		0,32	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 **SF-UTP Cat5e LSZH 01** in relation to its reaction to fire behaviour is classified:

**D<sub>ca</sub>**

The additional classification in relation to smoke production is:

**s1**

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

**d1**

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	
<b>D<sub>ca</sub></b>	<b>-</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>	<b>1</b>	<b>,</b>	<b>a</b>	<b>1</b>

i.e. **D<sub>ca</sub> – s1, d1, a1**

**Reaction to fire classification: D<sub>ca</sub>-s1, d1, a1**

#### 4.3 Field of application

This classification is valid for the family of communication cables **SF-UTP Cat5e LSZH 01** 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	Diameter (mm)
SF-UTP Cat5e LSZH 01	Dca-s1,d1,a1	6.3+/-0.30

**Intended use of the product:**

Supply of communication in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.



## 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

### APPROVED

signature of person authorizing this report

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Josef Malý



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Miroslav Sedláček