

# 1. Introduction

This classification report defines the classification assigned to **U-UTP Cat6a LSZH** in accordance with the procedures given in ČSN EN 13501-6 (EN 13501-6)



# CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH ČSN EN 13501-6 (EN 13501-6)

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Notified Body No.:	1014				
Product name:	U-UTP Cat6a LSZH				
Classification report No.:	704677-01/01 CLASS				
Issue number:	1				
Date of issue:	22.1.2018				

This classification report consists of 5 pages and may only be used or reproduced in its entirety.

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# 2. Details of classified product

### 2.1 General

The product **U-UTP Cat6a LSZH** in accordance with the procedures given in ČSN EN 13501-6 (EN 13501-6), is defined as a **LAN Cable** according to ČSN EN 50575 (EN 50575).

### 2.2 Product description

The product, U-UTP Cat6a LSZH, 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:** 

Solid Bare copper;

Insulation:

The insulation material is HDPE

No.of pairs: 4 pairs

Core identification:

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

### Spline:

The spline/filler material is HDPE.

Wrapper:

Wrapper material is PET

Non Continuous Al-Pet Foil

Outer sheath:

The sheathing material is LSZH

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# 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 Keyuanche ZKUŠEBNÍ ÚSTAV, Donggu s.p. Guangdon	Caleb Cable Industrial Ltd.	704677-01/01	EN 50399
	107 Luyuan Rd, Keyuancheng, Tangxia, Dongguan City, Guangdong Province, People Republic of China	704677-01/01	EN 60332-1-2
		704677-01/01	EN 60754-2
		702389-01/01	EN 60754-2:14

# 3.2 Results

			Results		
Test method and test number  Parameter		No. Tests	Continuous parameter - mean m	Compliance with parameters	
ČSN EN 60332-1-2	Flame spread H ≤ 425 mm	1	N/A	Р	
ČSN EN 50399	FS ≤ not required	Ĺ	>2	N/A	
	peak HRR <sub>avg class</sub> [kW]		220,5	N/A	
	peak SPR <sub>avg class</sub> [m <sup>2</sup> /s]		0,484	N/A	
	THR <sub>1200s class</sub> [MJ]	1	49,8	N/A	
	TSP <sub>1200s class</sub> [m <sup>2</sup> ]		111,7	N/A	
	FIGRA <sub>class</sub> [W.s <sup>-1</sup> ]		618,9	N/A	
	Flaming droplets/particies		d2	YES ≥ 10s	
ČSN EN 60754-2	рН	3	4,3	N/A	
OSIN EIN 007 34-2	Conductivity [µS/mm]	3	2,5	N/A	

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# 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, U-UTP Cat6a LSZH, in relation to its reaction to fire behaviour is classified:

 $D_{ca}$ 

The additional classification in relation to smoke production is:

s2

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 pro	duction		Flaming dr	oplets		Acidity	
D <sub>ca</sub>	-	s	2	,	d	2	,	a	1

i.e.  $D_{ca}$  – s2,d2,a1

Reaction to fire classification: Dca-s2,d2,a1

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# 4.3 Field of application

This classification is valid for the family of electric power cables **U-UTP Cat6a LSZH** described in section 2 and listed below as determined in the extended application process (EXAP) according to ČSN CLC/TS 50576 (CLC/TS 50576).

Cable Identification	Diameter (mm)
U-UTP Cat6a LSZH	7.2+/-0.50

**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.

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### 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.

Include the following statement hen the product is being CE marked under attestation of conformity system 3:

"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 Regulations.

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 FIED signature of person authorizing this report

Josef Malý / Dalibor Tatýrek

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