



Classification report No.: 704707-01/01 CLASS

1. Introduction

This classification report defines the classification assigned to **U-UTP Cat6 LSZH Dual** 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)**

Sponsor:	Caleb Cable Industrial Ltd. 107 Luyuan Rd, Keyuancheng, Tangxia, Dongguan City, Guangdong Province, People Republic of China
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Notified Body No.:	1014
Product name:	U-UTP Cat6 LSZH Dual
Classification report No.:	704707-01/01 CLASS
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This classification report consists of 5 pages and may only be used or reproduced in its entirety.

2. Details of classified product

2.1 General

The product **U-UTP Cat6 LSZH Dual** 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 Cat6 LSZH Dual**, 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:

8 pairs

Core identification for each cable of dual construction:

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

Spline:

The spline/filler material is HDPE.

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	704139-01/01	EN 50399
		704139-01/01	EN 60332-1-2
		701957-01/03	EN 60754-2
		702389-01/01	EN 60754-2:14

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 $H \leq 425$ mm	1	N/A	P
ČSN EN 60332-1-2	Flame spread $H \leq 425$ mm	1	N/A	P
ČSN EN 50399	FS $\leq 1,5$ m	2	>2	N/A
	peak $HRR_{avg\ class}$ [kW]		42.2	N/A
	peak $SPR_{avg\ class}$ [m^2/s]		0.11	N/A
	THR _{1200s class} [MJ]		20.4	N/A
	TSP _{1200s class} [m^2]		65.4	N/A
	FIGRA _{class} [$W \cdot s^{-1}$]		212.6	N/A
ČSN EN 60754-2	Flaming droplets/particies	3	N/A	YES $\leq 10s$
	pH		4,3	N/A
	Conductivity [$\mu S/mm$]		2,5	N/A

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, **U-UTP Cat6 LSZH Dual**, 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:

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	
D_{ca}	-	s	2	,	d	1	,	a	1

i.e. **D_{ca} – s2, d1, a1**

Reaction to fire classification: D_{ca}-s2, d1, a1

4.3 Field of application

This classification is valid for the family of electric power cables **U-UTP Cat6 LSZH Dual** 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	Reaction to Fire Classification
U-UTP Cat6 LSZH Dual, 6.0+/-0.40 x 12.5+/-0.04	D _{ca} -s2,d1,a1

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.

Include the following statement when 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

Josef Malý

APPROVED

signature of person authorizing this report

Ďalibor Tatýrek

