



CLASSIFICATION OF REACTION TO FIRE
FOR COPPER COMUNICATION
CABLES IN ACCORDANCE WITH UNE-EN 13501-6:2015

Sponsor: **Ningbo Feynman Cable Co., Ltd**

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Place of Manufacture: **No.9, Binhaisan Road, Hangzhou Bay New Zone, Ningbo, Zhejiang Province, China**

Notified Body N°: 1722

Product name: **CAT5e UTP LSZH**

Classification report N°.: **CEL-0269-3/18-1 Rev.01**

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Approved and revised:
Customer Manager

This test report voids and replaces the **CEL-0269-3/18-1**
Acidity is added

1. Introduction

This classification report defines the classification assigned to **CAT5e UTP LSZH** in accordance with the procedures given in EN 13501-6:2014

2. Details of classified product

2.1 General

The product, **CAT5e UTP LSZH**, is defined as **copper communication cable** in accordance with the procedures given in EN 13501-6 and UNE-EN 50575:2016 A1: 2016.

2.2 Product description

The **CAT5e UTP LSZH**, is as described in Sample details below.

Cable Identification	Product Code
CAT5e UTP LSZH	CAT 5E UTP LSZH LAN CABLE

2.3 Traceability

The test samples submitted by **Ningbo Feynman Cable Co., Ltd** and received on **2018-02-09** and **2018-12-05**

2.4 Sample details

Test sponsor: **Ningbo Feynman Cable Co., Ltd**

Manufacturer of sample: **Ningbo Feynman Cable Co., Ltd**

Place of manufacture: **No.9, Binhaisan Road, Hangzhou Bay New Zone, Ningbo, Zhejiang Province, China**

Cables Submitted for test	Sample OD [mm]
CAT 5E UTP LSZH LAN CABLE	5,0

3. Reports & results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. N°.	Test method
CEIS S.L.	Ningbo Feynman Cable Co., Ltd	CEL-0180/18-1	<ul style="list-style-type: none"> UNE-EN 50399:2012 UNE-EN 60332-1-2:2005+A1:2016+A11:2016
		CEL-1423/18	<ul style="list-style-type: none"> UNE-EN 60754-2:2014

3.2 Results

Test method	Sample	Parameter	Number of tests	Continuous parameter - mean m	Compliance with parameters
UNE-EN 60332-1-2:2005+A1:2016+A11:2016	CAT5e UTP LSZH	Flame spread H [mm] \leq 425	1	160	YES
UNE-EN 50399:2012	CAT5e UTP LSZH	FS [m]	1	1,50	YES
		HRR max [kW] \leq 400		31,72	YES
		THR1200s [MJ] \leq 70		13,10	YES
		FIGRA [W/s] \leq 1300		204,11	YES
		SPR [m ² /s] \leq 0,25		0,06	YES
		TSP ₁₂₀₀ [m ²] \leq 50		17,32	YES
		Flaming droplets/particles (< 10s)		YES	YES
UNE-EN 60754-2:2014 (a1)	CEL-1423/18-1	pH > 4,3	5	6,3	YES
		Conductivity [μ S/mm] < 2,5		0,9	YES

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, **CAT5e UTP LSZH**, 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:

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	1	,	d	1	,	a	1

Reaction to Fire Classification: D_{ca}-s1,d1,a1

The classification assigned to the products 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 UE N° 305/2011.

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 samples tested.

4.3 Field of application

This classification is valid for **the copper communication cable CAT5e UTP LSZH** described in “**Product description**” as determined in the extended applications process (Specific EXAP) according to CLC/TS 50576:2016 technical specification and the *Best Practice for Extended field of application (EXAP) for reaction-to-fire Euro-classification of copper communication cables (CCC) NB-CPR/SH02-16/BP07 (Stand 07.11.2016) of Fire Sector Group of Notified Bodies for the Construction Products Regulation.*

This classification is valid for all end-use applications.

5. Limitations

This classification will be valid whilst;

- The test methods remain unchanged,
- The product standard or technical approval remains unchanged,
- Constructional or material modifications do not exceed limits of the field of application.

The manufacturer has made a declaration, which is held on file, which the product placed in the marketplace, named in **Details of classified product** section of this report and produced at the manufacturing plant listed therein, is exactly the same as the product that was tested.

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