

CLASSIFICATION OF REACTION TO FIRE**IN ACCORDANCE WITH****EN 13501-6:2018**

Sponsor	: UPCOM TELEKOMÜNİKASYON BİLİŞİM TEKNOLOJİLERİ SAN. VE TİC. LTD. ŞTİ. Küçüksu Mah. Rasathane Cad. No: 61/3, 34684 Üsküdar, İstanbul / TURKEY
Prepared by	: EFFECTİS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası, Kocaeli / TURKEY
Product name	: U-D(ZN)H Eca
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This classification report consists of 5 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “U-D(ZN)H Eca” in accordance with the procedures given in EN 13501-6:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

U-D(ZN)H Eca is defined as a “type of classified product”. Its classification is valid for the following end use application:

EN 50575:2014/A1:2016 - Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

2.2. Description:

U-D(ZN)H Eca – 4 F – 5,5 mm ve U-D(ZN)H Eca – 24 F – 5,9 mm are fully described in the test reports in support of the classification listed in clause 3.1.

Tested product types:

Product name	Overall external diameter [mm]	Tube count	Fibre count	Cable structure
U-D(ZN)H Eca	5,5	1	4	LSZH-FR outer sheath, Glass yarn peripheral strength member, PC+PBT loose tube, Thixotropic jelly filling compound, Fibre Optical fibre cable
	5,9	1	24	

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
EFFECTİS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	UPCOM TELEKOMÜNİKASYON BİLİŞİM TEKNOLOJİLERİ SAN. VE TİC. LTD. ŞTİ.	FTST22224	EN 60332-1-2:2004 EN 60332-1-2:2004/A1:2015 EN 60332-1-2:2004/A11:2016
		FTST22225	

3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean	Compliance parameters
EN 60332-1-2 ⁽¹⁾ Flame exposition: 60 s	H (mm)	1	80	(-)
EN 60332-1-2 ⁽²⁾ Flame exposition: 60 s	H (mm)	1	95	(-)
(-): not applicable (1): U-D(ZN)H Eca – 4 F – 5,5 mm (2): U-D(ZN)H Eca – 24 F – 5,9 mm				

The table below shows the worst results of the classification parameters:

Test method	Parameter	Classification result	Compliance parameters
EN 60332-1-2	H (mm)	95	≤ 425 (E _{ca})
(-): not applicable			

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 9.3 of EN 13501-6:2018

4.2. Classification

U-D(ZN)H Eca in relation to its reaction to fire behaviour is classified:

E_{ca}

The additional classification in relation to smoke production is:

not classified

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

not classified

The additional classification in relation to acidity is:

not classified

The format of the reaction to fire classification for *U-D(ZN)H Eca* is:

Fire behaviour		Smoke production			Flaming droplets			Acidity	
E _{ca}	-	s	not classified	,	d	not classified	,	a	not classified

Reaction to fire classification: E_{ca}

4.3. Field of application

This classification is valid for the following product:

Parameters as determined in the extended application process according to *CLC/TS 50576:2016*

Cable family	U-D(ZN)H Eca
Cable family specified in CLC/TS 50576:2016	Optical fibre cable
External diameter [mm]	5,5 – 5,9
Fibre count	4 – 24
Tube count	1
Core	Fibre
Filling material	Thixotropic jelly
Loose tube	PC+PBT
Peripheral strength member	Glass yarn
Outer sheath	LSZH-FR
Fibre glass type	Indifferent
Fibre colour	Indifferent
Shape	Circular

The classification is valid for all end use applications.

List of classified cables		
1x4	1x6	1x8
1x12	1x16	1x24

5. LIMITATION

5.1. Restrictions

This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3.

5.2. Warning

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 305/2011/EU Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

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:



Approved:

e-signed

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Uğur ÇAVAŞ
Person in the charge of tests

e-signed

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Ali BAYRAKTAR
Laboratory manager