

Accredited Body  
No: AB-0556-T

Notified Body  
No: 2184

## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-6:2014

<b>Sponsor</b>	: TEMKA KABLO İNŞ. SAN. TİC. LTD.ŞTİ. Atatürk Mah. İnönü Cad. No:48/I Esenyurt, İSTANBUL/TURKEY
<b>Prepared by</b>	: EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası KOCAELİ, TURKEY
<b>Product name</b>	: 2x1,5 mm <sup>2</sup> LIHCH FE 180 / PH 120 - signal and command control cable
<b>Classification report No.</b>	: ERA - 18 – 055
<b>Issue Number</b>	: 1/2
<b>Date of issue</b>	: 17.05.2018

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 “ $2 \times 1,5 \text{ mm}^2$  LIHCH FE 180 / PH 120 - signal and command control cable” in accordance with the procedures given in EN 13501-6:2014.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1. General:

$2 \times 1,5 \text{ mm}^2$  LIHCH FE 180 / PH 120 - signal and command control cable is defined as a “type of classified product”.

### 2.2. Description:

$2 \times 1,5 \text{ mm}^2$  LIHCH FE 180 / PH 120 - signal and command control cable is fully described in the test reports in support of the classification listed in clause 3.

Manufactured Plant: TEMKA KABLO İNŞ. SAN. TİC. LTD.ŞTİ.  
Atatürk Mah. İnönü Cad. No:48/I Esenyurt, İSTANBUL/TURKEY

Tested product types:

Product Name	External diameter [mm]	Diameter of annealed copper conductor [mm]	Diameter of Cross-Link special material insulation sheath [mm]	Diameter of HM4-HFFR outer sheath [mm]	Thickness of mica tape [mm]	Thickness of glass fibre tape [mm]
$2 \times 1,5 \text{ mm}^2$ LIHCH FE 180 / PH 120 - signal and command control cable	6,90	0,235	2,80	8,20	5	25

## 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
EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	TEMKA KABLO İNŞ. SAN. TİC. LTD.ŞTİ.	FTST18187	EN 60332-1-2:2004/A11:2016

EFFECTIS  
AB

**3.2. Results**

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
EN 60332-1-2 Flame exposition: 60 s	H (mm)	1	55	(-)
(-): Not applicable				

The table below shows the results for a single cable :

Test method	Parameter	Classification result	Compliance parameters
EN 60332-1-2	H (mm)	55	≤ 425
(-): 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 13501-6:2014

**4.2. Classification**

*2x1,5 mm<sup>2</sup> LIHCH FE 180 / PH 120 - signal and command control cable*, in relation to its reaction to fire behaviour is classified:

**E<sub>ca</sub>**

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 *2x1,5 mm<sup>2</sup> LIHCH FE 180 / PH 120 - signal and command control cable* is:

Fire behaviour		Smoke production			Flaming droplets			Acidity	
E <sub>ca</sub>	-	s	not classified	,	d	not classified	,	a	not classified

**Reaction to fire classification: E<sub>ca</sub>**

*EGG*  
*AD*

#### 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* :

<b>Cable Family</b>	2x1,5 mm <sup>2</sup> LIHCH FE 180 / PH 120 - signal and command control cable
<b>External Diameter [mm]</b>	8,20
<b>Core Nature</b>	Annealed copper
<b>Insulation Nature</b>	Cross-Link special material
<b>Outer Sheath</b>	HM4-HFFR
<b>Flame Barrier</b>	Mica tape
<b>Flame Barrier</b>	Glass tape
<b>Colour</b>	Orange
<b>Shape</b>	Circular
<b>Manufacturing Plant</b>	Article 2.2

The classification is valid for all end use applications.

## 5. LIMITATIONS

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### 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.

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 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:



Ali BAYRAKTAR

Person in the charge of tests

Approved:



Onur DAĞ

Operation Manager