



**TÜRK STANDARDLARI ENSTİTÜSÜ**  
TURKISH STANDARDS INSTITUTION



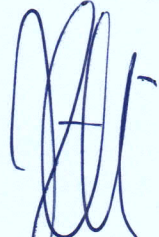
**TSE DENEY VE KALİBRASYON MERKEZİ BAŞKANLIĞI**  
**ELEKTROTEKNİK LABORATUVARI GEBZE MÜDÜRLÜĞÜ**  
HEADSHIP OF TSE TEST AND CALIBRATION CENTER  
ELECTROTECHNICAL LABORATORY GEBZE DIRECTORATE



**CLASSIFICATION OF REACTION TO FIRE**  
**FOR ELECTRIC CABLES**  
**IN ACCORDANCE WITH EN 13501-6**

Sponsor	:	ETK KABLO SAN. TİC. A.Ş.
Trade mark	:	ETK CABLE
Model	:	LHCH-TP
Product description	:	HFFR insulated, twisted pair, braided, HFFR jacketed signal cable
Standard applied	:	TS EN 50575/A1:2016
Regulation	:	Construction Products Regulation (305/2011/EU)
Notified Body No	:	1783
Report Number	:	355396
Date of Issue	:	15.08.2017

**Reaction to Fire Class: *D<sub>ca-s1b,d2,a1</sub>***

	<i>Person in charge of tests</i>	<i>Approved by</i>
17 / 08 / 2017	 Önder GEREGÜL Expert	 Hilmi AKDOĞAN Laboratory Director

**Note:** 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 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. This document consists of 2 pages. This report can't be partially copied and the unsigned copies are invalid.

TS EN 13501-6 04.2014  
LAB-D-2-FR-24 2017 Revizyon 1

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This certificate cannot be altered, partially duplicated or ereased for misunderstanding.



## 1- Introduction

This classification report defines the classification of cable below in accordance with the procedures given in TS EN 13501-6

## 2- Details of classified product

Sponsor	ETK KABLO SAN. TİC. A.Ş.	
Manufacturer (if different)		
Place of Manufacturer	Osmangazi Mah. Müstesna Sok. No:37 Samandıra/İSTANBUL	
Sample description		
Trade name, Type of cable	ETK CABLE, LIHCH-TP	
Sample description	HFFR insulated, twisted pair, braided, HFFR jacketed signal cable	
Tested cable and X parameter	1- LIHCH-TP 12x2x0,25 mm <sup>2</sup> 2- LIHCH-TP 2x2x0,34 mm <sup>2</sup> 3- LIHCH-TP 6x2x0,25 mm <sup>2</sup>	Xmin : 37,5 Xav. : 78 Xmax : 120,3

## 3- Test Reports in support of this classification

Enter details of reports here as applicable

Number	Test reports no and Date	Test methods
1	355294 / 08-17	TS EN 50575/A1: 2016 (TS EN 50399/A1:2016 - TS EN 60332-1-2/A11:2017, TS EN 61034-2/A1: 2014, TS EN 60754-2: 2016)
2	355333 / 08-17	TS EN 50575/A1: 2016 (TS EN 50399/A1:2016 - TS EN 60332-1-2/A11:2017, TS EN 61034-2/A1: 2014, TS EN 60754-2: 2016)
2	355336 / 08-17	TS EN 50575/A1: 2016 (TS EN 50399/A1:2016 - TS EN 60332-1-2/A11:2017, TS EN 61034-2/A1: 2014, TS EN 60754-2: 2016)

## 4- Classification and field of application

The format of the reaction to fire classification for electric cables is:

Fire Behaviour	Smoke Production	Flaming Droplets	Acidity
<b>D<sub>ca</sub></b>	s1b	d2	a1

Reaction to Fire Classification: **D<sub>ca-s1b,d2,a1</sub>**





## 5- Field of Application

This classification is valid for the power cables listed below as determined in the extended application process according to CLC-FprTS 50576-2016.

Trade name	Cable Family	Number of Cores	Cross-section area	Reaction to Fire Classification
ETK CABLE	LIHCH-TP	2	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	<i>D<sub>ca-s1b,d2,a1</sub></i>
		3	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		4	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		5	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		6	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		7	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		8	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		9	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		10	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	
		12	0,22 mm <sup>2</sup> - 0,25 mm <sup>2</sup> - 0,34 mm <sup>2</sup>	

