

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

Sponsor	LTD FERO Mtskheta Tsodreti Village / GEORGIA
Tested and prepared by	EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası, Kocaeli / TÜRKİYE
Product name	R-CABLES H05VVH-F
Report no.	ERA-23-042
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This classification report consist of 5 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “*R-CABLES H05VVH-F*” in accordance with the procedures given in EN 13501-6:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

R-CABLES H05VVH-F 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:

R-CABLES H05VVH-F - 3x10+6 mm² and *R-CABLES H05VVH-F - 2x2,5 mm²* are fully described in the test reports in support of the classification listed in clause 3.1.

Manufactured plant: LTD FERO

Rustavi 3700 Mshenebelta str 62 / GEORGIA

Tested product types:

Product name	Nominal voltage [V]	Cross section area [mm ²]	External overall diameter [mm]	Cable structure
R-CABLES H05VVH-F	300/500	3x10+6	16,5	PVC outer sheath, PVC filler, XLPE insulation, Stranded copper wire conductor (Class 5)
Multicore sheathed (unarmoured) Power cable	300/500	2x2,5	8,5	PVC outer sheath, PVC filler, XLPE insulation, Stranded copper wire conductor (Class 5)

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.	LTD FERO	FTST23137 FTST23138	EN 60332-1-2:2004 EN 60332-1-2:2004/A1:2015 EN 60332-1-2:2004/A11:2016

3.2. Results

Test method	Parameter	Number of test	Result	
			Continuous parameter mean (m)	Compliance parameters
EN 60332-1-2 ⁽¹⁾ Flame exposition: 60 s	H (mm)	1	88	(-)
EN 60332-1-2 ⁽²⁾ Flame exposition: 60 s	H (mm)	1	122	(-)
(-): Not applicable (1): R-CABLES H05VVH-F - 3x10+6 mm ² (2): R-CABLES H05VVH-F - 2x2,5 mm ²				

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

Test method	Parameter	Safety margin	Classification result	Compliance parameters
EN 60332-1-2	H (mm)	(-)	122	≤ 425 (Eca)
(-): Not applicable				

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

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

4.2. Classification

R-CABLES H05VVH-F 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 *R-CABLES H05VVH-F* 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	R-CABLES H05VVH-F
Cable family specified in CLC/TS 50576:2016	Multicore sheathed (unarmoured) Power cable
External overall diameter of minor axis [mm]	8,5 – 20,0
Colour	Indifferent
Shape	Circular
Flexibility	Flexible
Manufacturing plant	Article 2.2
Cable structure	
PVC outer sheath	
PVC filler	
XLPE insulation	
Stranded copper wire conductor (Class 5)	

The classification is valid for all end use applications.

List of classified cables				
2x2,5	2x4	3x1,5	3x2,5	3x4
4x2,5	4x4	4x6	5x2,5	5x4
5x6		5x10		3x10+16

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.

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:



Approval:



e-signed

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Uğur ÇAVAŞ
Person in the charge of tests



e-signed

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Ali BAYRAKTAR
Laboratory manager