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## Classification of reaction to fire for electric cables in accordance with EN 13501-6

### 1 Introduction

This classification report defines the classification assigned to the “H07Z1-R” (as described by the sponsor) in accordance with the procedure given in EN 13501-6.

### 2 Details of classified product

#### 2.1 General

The product family “H07Z1-R” that is the subject of this classification is defined as a single core unsheathed power cable (according to EN 50575) family.

#### 2.2 Product description

The product family named “H07Z1-R” (as described by the sponsor), is described in the reports provided in support of classification listed in 3.1.

Cables included in the cable family.

Article number	Name	Diameter (mm)
02030	H07Z1-R 1,5	3.0
02032	H07Z1-R 2,5	3.6

### 3 Reports and results in support of this classification

#### 3.1 Reports

Name of laboratory	Name of sponsor	Report reference no	Test method and date/field of application rules and date
RISE	Amo installationskabel AB	2P05894 2P05894-1	EN 50399:2011+A1:2016, EN 60332-1-2:2004+ A1:2015+A11:2016
RISE	Amo installationskabel AB	2P05894-2	EN 60754-2:2014

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### 3.2 Results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean <i>m</i>	Compliance with parameters
EN 60332-1-2	$H \leq 425 \text{ mm}$	...	(-)	Compliant
EN 50399	<i>FS</i> (m)	...	3.30	Compliant
	<i>FIGRA</i> (W/s)		81	Compliant
	<i>THR</i> <sub>1200s</sub> (MJ)		40.7	Compliant
	<i>Peak HRR</i> (kW)		53	Compliant
	<i>TSP</i> <sub>1200s</sub> (m <sup>2</sup> )		65	Compliant
	<i>Peak SPR</i> (m <sup>2</sup> /s)		0.11	Compliant
	<i>Flaming droplets/particles</i>		No flaming droplets/particles	Compliant
	<i>Flaming droplets/particles &gt; 10 s</i>		No flaming droplets/particles	Compliant
EN 60754-2	<i>pH</i>	...	5.9	Compliant
	<i>Conductivity</i> (µS/mm)		0.2	Compliant

## 4 Classification and field of application

### 4.1 Reference of application

This classification has been carried out in accordance with EN 13501-6:2018.

### 4.2 Classification

The product family “H07Z1-R” (as described by the sponsor) in relation to its reaction to fire behavior is classified:

$D_{ca}$

The additional classification in relation to smoke production is:

s2

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

d0

The additional classification in relation to acidity is:

a1

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

Fire behaviour	Smoke production	Flaming droplets	Acidity
$D_{ca}$	- s 2	, d 0	, a 1

### 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 50576NB-CPR/SH02-16/681rev3, clause 4:

Cable diameter [mm] 3.0 and 3.6

The classification is valid for all end use applications.

## 5 Limitations

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 AVCP system 3 and CE marking under Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR).

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.

### **RISE Research Institutes of Sweden AB Safety - Fire Research Materials**

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