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DELTA Classification Report



Reaction to fire classification report for electric cables: Cat 6A/7/7A LSZH 23AWG

Performed for Caleb Cable Industrial Ltd.

Classification report no.: DK0199-EC-2016568

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20 October 2016

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Title	Reaction to fire classification report for electric cables
Product area	Power, control and communication cables
Product description	Screened communication cable (S/FTP) with solid conductors, 4 twisted pairs, LSZH jacket
Product identification	Cat 6A/7/7A LSZH 23AWG Part no. CCSFTPCAT 6A/7/7A4PB2
Classification report no.	DK0199-EC-2016568
Client	Caleb Cable Industrial Ltd. #107 Luyuan Rd, Ke Yuan Cheng Tangxia, Dongguan Guangdong China
Contact	Alex Yuan, Jason Jia
Specification	EN 13501-6:2014
Results	Reaction to fire classification: B2 _{ca} -s1,d0
Prepared by	Nis Jepsen
Date	20 October 2016
Responsible	 Lars Lindskov Pedersen, Test Manager DELTA LAN Components and Systems Testing

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1. Introduction

This classification report defines the classification assigned to

Product name	Cat 6A/7/7A LSZH 23AWG
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in accordance with the procedures given in EN 13501-6.

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

Sponsor	Caleb Cable Industrial Ltd. #107 Luyuan Rd, Ke Yuan Cheng Tangxia, Dongguan Guangdong China
Prepared by	DELTA Dansk Elektronik, Lys & Akustik (DELTA Danish Electronics, Light & Acoustics) Venlighedsvej 4 2970 Hørsholm DENMARK
Notified Body No.	0199
Product name	Cat 6A/7/7A LSZH 23AWG
Classification report no.	DK0199-EC-2016568
Issue number	01
Date of issue	19 October 2016

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2. Details of classified product

2.1 General

The product, Cat 6A/7/7A LSZH 23AWG, is defined as a

Type of product	Electric cable intended for supply of communication in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke
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2.2 Product description

The product, Cat 6A/7/7A LSZH 23AWG, is described in the reports provided in support of classification listed in Section 3.1.

3. Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report no.	Test method
DELTA	Caleb Cable Industrial Ltd.	T213030-06	EN 60332-1-2:2004 +A1:2015 EN 50399:2012

3.2 Results

Test method	Parameter	No. tests	Test method	
			Continuous parameter – mean <i>m</i>	Compliance with parameters
EN 60332-1-2	$H \leq 425 \text{ mm}$	1	-	Compliant
EN 50399	$FS \leq 1.5 \text{ m (B2}_{ca})$	1	0.24 m	Compliant
	$THR_{1200s} \leq 15 \text{ MJ (B2}_{ca})$		3.1 MJ	Compliant
	$\text{Peak HRR} \leq 30 \text{ kW (B2}_{ca})$		12.6 kW	Compliant
	$\text{FIGRA} \leq 150 \text{ W/s (B2}_{ca})$		112.2 W/s	Compliant
	$\text{TSP}_{1200s} \leq 50 \text{ m}^2 \text{ (s1)}$		13.8 m ²	Compliant
	$\text{Peak SPR} \leq 0.25 \text{ m}^2/\text{s (s1)}$		0.11 m ² /s	Compliant
	Flaming droplets/particles No occurrences (d0)		-	Compliant

4. Classification and field of application

4.1 Reference of classification

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

4.2 Classification

The product, Cat 6A/7/7A LSZH 23AWG, in relation to its reaction to fire behaviour is classified:

B2_{ca}

The additional classification in relation to smoke production is:

s1

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

d0

The additional classification in relation to acidity is:

N/A

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

Fire behaviour		Smoke production				Flaming droplets				Acidity		
B2_{ca}	-	s	1		,	d	0		,	a	N/A	

Reaction to fire Classification: B2_{ca}-s1,d0

4.3 Field of application

This classification is valid for the following product parameters as determined in the extended application process according to CLC/FprTS 50576:

Colour of jacket	Any
Colour of insulation	Any
Marking	Any

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 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.