

Classification Report



BASEC Client **Caleb Cable Industrial Limited**

Report No. **KCPR1073 Classification Issue 3**

Number of pages in this Report: 6

Issue Date **5 June 2017**

Items Tested 1 sample of copper communication cable

Specification(s) BS EN 13501-6:2014

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Laboratory Manager

Issue Date: 5 June 2017

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5950



Notified Body No. 2661

Introduction

This classification report defines the classification assigned to the product, a copper communication cable, in accordance with the procedures given in BS EN 13501-6:2014



**CLASSIFICATION OF REACTION TO FIRE
FOR ELECTRIC CABLES IN ACCORDANCE WITH
BS EN 13501-6:2014**

| | |
|----------------------------------|---|
| Sponsor: | Caleb Cable Industrial Limited |
| Prepared for: | Caleb Cable Industrial Limited |
| Place of Manufacture: | 107 Luyuan Road, Ke Yuan Cheng, Tangxia, Dongguan, China |
| Prepared by: | British Approvals Service for Cables, Presley House, Presley Way, Crownhill Milton Keynes, MK8 0ES, United Kingdom |
| Notified Body No. | 2661 |
| Classification Report No. | KCPR1073 Classification – Issue 3 |
| Issue number: | 3 |
| Date of issue: | 5 June 2017 |

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Details of classified product

General

This classification report defines the classification for the copper communication cable in accordance with the procedures given in BS EN 13501-6:2014.

Product description

The copper communication cable is as described in Sample details below.

Traceability

The test samples submitted by the manufacturer and received on 21 September 2016.

Sample details

| Parameter | Details |
|---------------------------------------|---|
| Test sponsor | Caleb Cable Industrial Limited |
| Manufacturer of sample | Caleb Cable Industrial Limited |
| Place of manufacture | 107 Luyuan Road, Ke Yuan Cheng, Tangxia, Dongguan, China |
| Cable submitted for test | |
| S-FTP Cat 6a/Cat 7/Cat 7a LSZH 23 AWG | 4 pairs of PE insulated copper conductors, individual pair shield, overall wire braid screen, LSZH jacket: 7.4mm OD Product code CCSFTPCAT4P |

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Reports & results in support of this classification

Reports

| Name of Laboratory | Name of test sponsor | Test reports Nos. | Test method/field of application rules |
|--------------------|--------------------------------|-------------------|--|
| BASEC | Caleb Cable Industrial Limited | KCPR1073 | BS EN 50399:2011 BS EN 60332-1-2:2004 + A1:2015 |
| UL LLC | | LCPR1313 | BS-EN 60754-2:2014 |

Results

| Test method & test number | Parameter | No. tests run | Results | |
|---------------------------|----------------------------|---------------|--|---|
| | | | Continuous parameter | Compliance with parameters |
| BS EN 50399:2011 | FS | 1 | 3.31m | >2.0m / D _{ca} Compliant |
| | THR _{1200s} | | 41.0MJ | ≤ 70MJ/ D _{ca} Compliant |
| | Peak HRR | | 295kW | ≤ 400W / D _{ca} Compliant |
| BS EN 50399:2011 | FIGRA | 1 | 842.4W/s | ≤ 1300W/s / D _{ca} Compliant |
| | TSP _{1200s} | | 67.5m ² | ≤ 400m ² / s ² Compliant |
| | Peak SPR | | 0.36m ² /s | ≤ 1.50m ² /s / s ² Compliant |
| BS EN 50399:2011 | Flaming droplets/particles | 1 | >10s | flaming drips >10s / d ₂ compliant |
| | H | 1 | 112mm | ≤ 425mm / Compliant |
| | pH/conductivity | 3 | pH = 5.93* conductivity =1.98μS/mm* | pH = >4.3 and < 2.5μS/mm = a1 compliant |

* Weighted average of all components tested

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Classification and field of application

Reference of classification

This classification has been carried out in accordance with BS EN 13501-6:2014

Classification

The copper communication cable in relation to reaction to fire behaviour is classified:

D_{ca}

The additional classification in relation to smoke production is:

s2

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

d2

The additional classification in relation to acidity is:

a1

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

| Fire Behaviour | | Smoke Production | | | Flaming Droplets | | | Acidity | |
|-----------------|---|------------------|---|---|------------------|---|---|---------|---|
| D _{ca} | - | s | 2 | , | d | 2 | , | a | 1 |

Reaction to Fire Classification: D_{ca}-s2,d2,a1

The classification assigned to the products 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 samples tested.

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Field of application

This classification is valid for the copper communication cable described in 'Sample details' and listed below

| Cable Identification | Product Code | Reaction to Fire Classification |
|--|--------------|---------------------------------|
| S-FTP Cat 6a/Cat 7/Cat 7a LSZH 23 AWG | CCSFTPCAT74P | D _{ca} -s2,d2,a1 |

This classification is valid for all end-use applications

Limitations

This classification will be valid whilst;

- The test methods remain unchanged,
- The product standard or technical approval remains unchanged,
- Constructional or material modifications do not exceed limits of the field of application.

The manufacturer has made a declaration, which is held on file, which the product placed in the marketplace, named in product description section of this report and produced at the manufacturing plant listed therein, is exactly the same as the product that was tested.

This classification document does not represent type approval or certification of the product.

-- END OF REPORT --