

# Classification Report



**BASEC Client**    **Shenzhen Biadi Technology Co., Ltd**

**Report No.**    **KCPR1206-4 Classification**  
Number of pages in this Report: 6

**Issue Date**    **11 May 2017**

**Items Tested**    1 sample of Communications Cable

**Specification(s)**    BS EN 13501-6:2014

Authorised by:    I McGuinness

Laboratory Manager

Issue Date:    11 May 2017

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Notified Body No. 2661

**Introduction**

This classification report defines the classification assigned to the product, 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:** Shenzhen Biadi Technology Co., Ltd  
**Places of Manufacture:** Shenzhen Biadi Technology Co., Ltd, 1-5F of Block No 2 Tonglixing Industrial Area, No 8 of Lanzhu East Road, Pingshan New District, Shenzhen, Guangdong 518118, China  
**Prepared by:** British Approvals Service for Cables, Presley House, Presley Way, Crownhill Milton Keynes, MK8 0ES, United Kingdom  
**Notified Body No.** 2661  
**Cable Family Name:** U/UTP LSHF Copper Communication Cable  
**Classification Report No.** KCPR1206-4 Classification  
**Issue Number:** 1  
**Date of Issue:** 11 May 2017

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## BASEC Report No: KCPR1206-4 Classification

### Details of classified product

#### General

This classification report defines the classification for the cable, Copper Communication Cable in accordance with the procedures given in BS EN 13501-6:2014.

#### Product description

The cable Copper Communication Cable is described in 'Sample details' below.

#### Traceability

The test samples supplied by the client and received by BASEC on 21 March 2017

#### Sample details

Parameter	Details
Test sponsor	Shenzhen Biadi Technology Co., Ltd
Manufacturer of sample	Shenzhen Biadi Technology Co., Ltd
Place of manufacture	1-5F of Block No 2 Tonglixing Industrial Area, No 8 of Lanzhu East Road, Pingshan New District, Shenzhen, Guangdong 518118, China
Cables submitted for test	
U/UTP LSHF Cat 6 23AWG	4 pairs of HDPE insulated copper conductors, PE cross separator, rip cord, LSHF sheath: 6.1mm OD

## BASEC Report No: KCPR1206-4 Classification

### 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	Shenzhen Biadi Technology Co., Ltd	KCPR1206-2	BS EN 50399:2011 + A1:2016 BS EN 60332-1-2:2004 + A11:2016 BS EN 60754-2:2014

#### Results

Test method	Parameter	No. tests runs	Results	
			Continuous parameter	Compliance with parameters
<b>BS EN 50399:2011 +A1:2016</b>	FS	1	3.31m	>2.0m = D <sub>ca</sub> compliant
	THR <sub>1200s</sub>		41.2MJ	≤ 70MJ = D <sub>ca</sub> compliant
	Peak HRR		391.1kW	≤ 400kW = D <sub>ca</sub> compliant
	FIGRA		949.3W/s	≤ 1300W/s = D <sub>ca</sub> compliant
	TSP <sub>1200s</sub>	1	94.6m <sup>2</sup>	≤ 400m <sup>2</sup> = s2 compliant
	Peak SPR		0.58m <sup>2</sup> /s	≤ 1.5m <sup>2</sup> /s = s2 compliant
	Flaming droplets/particles	1	>10s	flaming drips >10s = d2 compliant
<b>BS EN 60332-1-2:2004 + A11:2016</b>	H	1	97mm	≤ 425mm = E <sub>ca</sub> compliant
<b>BS EN 60754-2:2014</b>	pH/conductivity	1	pH= 5.2* conductivity = 0μS/mm*	pH ≥4.3 and conductivity ≤2.5μS/mm = a1 compliant

\* The least best result for all components tested

## BASEC Report No: KCPR1206-4 Classification

### Field of application

### Reference of classification

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

### Classification

The communication cable 'U/UTP LSHF Cat 6' in relation to reaction to fire behaviour are classified:

D<sub>ca</sub>

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 <sub>ca</sub>	-	s	2	,	d	2	,	a	1

**Reaction to fire classification: D<sub>ca</sub>-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.

## BASEC Report No: KCPR1206-4 Classification

### Field of application

This classification is valid for the cables described in 'Sample details' and listed below.

Brand Name	Cable Identification	Conductor size	Reaction to Fire Classification
Shenzhen Biadi Technology Co., Ltd	U/UTP LSHF Cat 6	23AWG	Dca-s2,d2,a1

This classification is valid for cables for general applications in construction works subject to reaction to fire requirements.

### 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 plants 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 --