

Classification Report



BASEC Client **Guangdong Rifeng Electrical Cable Co., Ltd.**

Report No. LCPR1990-2b Classification

Number of pages in this Report: 6

Issue Date **25 January 2019**

Items Tested 2 samples of power cables

Specification(s) BS EN 13501-6:2014

Authorised by: I McGuinness

Laboratory Manager

Issue Date: 25 January 2019

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British Approvals Service for Cables
Presley House
Presley Way
Crownhill
Milton Keynes
MK8 0ES UK
T: 01908 267300
F: 01908 267255
E: mail@basec.org.uk
W: www.basec.org.uk



Notified Body No. 2661

Introduction

This classification report defines the classification assigned to the product, power cables, 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: Guangdong Rifeng Electrical Cable Co., Ltd.
Prepared for: Guangdong Rifeng Electrical Cable Co., Ltd., Guangfeng Industrial Zone,
West District, Zhongshan, Guangdong, China 528412
Prepared by: British Approvals Service for Cables, Presley House, Presley Way, Crownhill
Milton Keynes, MK8 0ES, United Kingdom
Notified Body No. 2661
Product Name: Power Cable H07RN-F
Classification Report No. LCPR1990-2b Classification
Issue number: 1
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Details of classified product

General

The H07RN-F cables are classified in accordance with the procedures given in BS EN 13501-6:2014 and are defined as power cables according to BS EN 50575:2014+A1:2016.

Product description

The power cables are as described in Sample details below.

Traceability

The test samples were submitted by the manufacturer and received on 30 April 2018 & 12 December 2018

Sample details

Parameter	Details
Test sponsor	Guangdong Rifeng Electrical Cable Co., Ltd.
Manufacturer of sample	Guangdong Rifeng Electrical Cable Co., Ltd.
Place of manufacture	Guangfeng Industrial Zone, West District, Zhongshan, Guangdong, China 528412
Cables submitted for test	
H07RN-F 4x6.0mm ²	<i>4 core, class 5 copper conductor, EPR insulation, Filler, PCP jacket OD = 17.1</i>
H07RN-F 4x240mm ²	<i>4 core, class 5 copper conductor, EPR insulation, Filler, PCP jacket OD = 74.3</i>

Italicised text is information supplied by the sponsor datasheets

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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
UL--CCIC	Guangdong Rifeng Electrical Cable Co., Ltd.	LCPR1990 LCPR1990X	BS EN 60332-1-2:2014 + A11:2016

Results

Cable	Parameter	No. tests runs	Results	
			Discontinuous parameter	Compliance parameters
H07RN-F 4x6.0mm ²	H	1	96mm	≤ 425mm = E _{ca} Compliant
H07RN-F 4x240mm ²	H	1	108mm	≤ 425mm = E _{ca} Compliant

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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 power cables in relation to reaction to fire behaviour are classified:

E_{ca}

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

Fire Behaviour		Smoke Production				Flaming Droplets			Acidity	
E_{ca}	-	-	-	,	-	-	,	-	-	

Reaction to fire classification: E_{ca}

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 power cables described in 'Sample details' and listed below as determined in the extended application process according to PD CLC/TS 50576:2016.

Brand Name	Cable Identification	Number of cores	Conductor size	Reaction to Fire Classification
Guangdong Rifeng Electrical Cable Co., Ltd.	H07RN-F	4	6.0mm ² to 240mm ²	E _{ca}
		5	6.0mm ² to 120mm ²	

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.

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