

Classification Report



BASEC Client **Energya Power Cables Factory Egypt**

Report No. M6CPRT2198 Classification

Number of pages in this Report: 6

Issue Date **23 October 2019**

Items Tested 7 samples of Power Cable

Specification(s) BS EN 13501-6:2014

Authorised by: I McGuinness

Laboratory Manager

Issue Date: 23 October 2019

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Notified Body No. 2661

Introduction

This classification report defines the classification assigned to the product, power 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:	Energya Power Cables Factory Egypt
Prepared for:	Energya Power Cables Factory Egypt, 10th of Ramadan City, Industrial Zone, Area A1, Cairo
Prepared by:	British Approvals Service for Cables, Presley House, Presley Way, Crownhill Milton Keynes, MK8 0ES, United Kingdom
Notified Body No.	2661
Product name:	BS 7889 Family 4, 5 & 6 (PVC)
Classification report No.	M6CPRT2198 Classification
Issue number:	1
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Details of classified product

General

The BS 7889 Family 4, 5 & 6 (PVC) cables are classified in accordance with the procedures given in BS EN 13501-6:2014 and is defined as a power cable according to BS EN 50575:2014+A1:2016.

Product description

The power cables 'BS 7889 Family 4, 5 & 6 (PVC)' are described in Sample details below.

Traceability

The test samples were submitted by the manufacturer and received on 18 July 2019 & 14 October 2019

Sample details

Parameter	Details
Test sponsor	Energys Power Cables Factory Egypt
Manufacturer of sample	Energys Power Cables Factory Egypt
Place of manufacture	10th of Ramadan City, Industrial Zone, Area A1, Cairo
Cable submitted for test	
BS 7889 1cx25mm	Single core power cable. Class 2 (stranded) copper conductor, XLPE Insulation, PVC bedding, PVC sheath OD = 13.6mm
BS 7889 1cx1000mm	Single core power cable. Class 2 (stranded) copper conductor, XLPE Insulation, PVC sheath OD = 53.9mm
BS 7889 2cx50mm	2c power cable. Class 2 shaped (stranded) copper conductor, XLPE Insulation, filler, binder tape, PVC sheath OD = 22.0mm
BS 7889 4cx120mm	4c power cable. Class 2 shaped (stranded) copper conductor, XLPE Insulation, filler, binder tape, PVC sheath OD = 40.4mm
BS 7889 5x50mm	5c power cable. Class 2 (stranded) copper conductor, XLPE Insulation, filler, binder tape, PVC sheath OD = 34.5mm
BS 7889 5x70mm	5c power cable. Class 2 (stranded) copper conductor, XLPE Insulation, filler, binder tape, PVC sheath OD = 39.7mm
BS 7889 5x120mm	5c power cable. Class 2 (stranded) copper conductor, XLPE Insulation, filler, binder tape, PVC sheath OD = 50.0mm

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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	Energys Power Cables Factory Egypt	M6CPRT2198* M1CPRT2198	BS EN 60332-1-2:2004+A11:2016

Results

Cable	Parameter	No. test runs	Results	
			Continuous parameter	Compliance parameters
BS 7889 1cx25mm	H	1	75mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 1cx1000mm	H	1	95mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 2cx50mm	H	1	64mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 4cx120mm	H	1	73mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 5x50mm*	H	1	96mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 5x70mm	H	1	80mm	$\leq 425\text{mm} = E_{ca}$ Compliant
BS 7889 5x120mm	H	1	101mm	$\leq 425\text{mm} = E_{ca}$ 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
Energya Power Cables Factory Egypt	BS 7889 Family 4, 5 & 6 (PVC)	1	25mm ² -1000mm ²	E _{ca}
		2 - 4	50mm ² - 120mm ²	E _{ca}
		5	50mm ² -120mm ²	E _{ca}

This classification is valid for cables for general application 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, that the product placed in the marketplace, named in the 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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