

Classification Report



BASEC Client **Energya Power Cables Factory Egypt**

Report No. M2CPRT2198 Classification

Number of pages in this Report: 6

Issue Date **18 September 2019**

Items Tested 2 samples of Power Cable

Specification(s) BS EN 13501-6:2014

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Laboratory Manager

Issue Date: 18 September 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 5467 Family 2 (PVC) |
| Classification report No. | M2CPRT2198 Classification |
| Issue number: | 1 |
| Date of issue: | 18 September 2019 |

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BASEC Report No M2CPRT2198 Classification

Details of classified product

General

The BS 5467 Family 2 (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 5467 Family 2 (PVC)' are described in Sample details below.

Traceability

The test samples were submitted by the manufacturer and received on 18 July 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 5467 2x50mm | Two core power cable. Class 2 shaped (stranded) copper conductor, XLPE Insulation, Polyester tape, PVC Bedding, Galvanised steel wire armour, Polyester tape, PVC Sheath OD = 27.5mm |
| BS 5467 4x400 | Four core power cable. Class 2 shaped (stranded) copper conductor, XLPE Insulation, Polyester tape, PVC Bedding, Galvanised steel wire armour, Polyester tape, PVC Sheath OD = 82.1mm |

BASEC Report No M2CPRT2198 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 | Energya Power Cables Factory Egypt | M2CPRT2198 | BS EN 60332-1-2:2004+A11:2016 |

Results

| Cable | Parameter | No. test runs | Results | |
|----------------|-----------|---------------|----------------------|--|
| | | | Continuous parameter | Compliance parameters |
| BS 5467 2x50mm | H | 1 | 99mm | $\leq 425\text{mm} = E_{ca}$ Compliant |
| BS 5467 4x400 | H | 1 | 134mm | $\leq 425\text{mm} = E_{ca}$ Compliant |

BASEC Report No M2CPRT2198 Classification

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.

BASEC Report No M2CPRT2198 Classification

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 |
|---------------------------------------|------------------------|-----------------|--|---------------------------------|
| Energys Power Cables Factory Egypt | BS 5467 Family 2 (PVC) | 2-4 | 50mm ² - 400mm 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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