

## Certificate of Product Approval

Certificate Number: 1676a

Issue: 01

### Giza Cable Industries

Fourth Industrial Zone  
Plot 48  
6th of October City  
Giza Governorate  
Egypt



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

#### Product(s)

Cable Types as listed below:  
Cu/Mica/LSHF cables

#### Standard(s) (see Appendix for details)

BS 6387:2013 (Category CWZ)  
IEC 60331-21:1999  
EN 61034-2:2005+A2:2020  
EN 60754-1:2014

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

*Obada Piracha*

Signed for BRE Global Ltd.

Obada Piracha  
Certification Scheme Manager

13 October 2021  
Date of Issue

13 October 2021  
Date of First issue



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## Appendix to Certificate No: 1676a Giza Cable Industries

Issue: 01

Product name					LPCB Ref. No.
Cu/Mica/LSHF					1676a/01
Nominal csa of conductor (mm <sup>2</sup> ) See Note 1	Core Construction	BS 6387 See note 2 & 3	EN 60754-1	EN 61034-2	IEC 60331-21 See note 4
1.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
2.5	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
4.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
6.0	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
10	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
16	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
25	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
35	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
50	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
70	One	CWZ	<0.5% HCl	>60%	(120 + 15) minutes
95	One	C	<0.5% HCl	>60%	(120 + 15) minutes
120	One	C	<0.5% HCl	>60%	(120 + 15) minutes

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*Obada Al-een*

Signed for BRE Global Ltd.

Obada Piracha  
Certification Scheme Manager

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## Appendix to Certificate No: 1676a Giza Cable Industries

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Product name					LPCB Ref. No.
Cu/Mica/LSHF					1676a/01
Nominal csa of conductor (mm <sup>2</sup> ) See Note 1	Core Construction	BS 6387 See note 2 & 3	EN 60754-1	EN 61034-2	IEC 60331-21 See note 4
150	One	C	<0.5% HCl	>60%	(120 + 15) minutes
185	One	C	<0.5% HCl	>60%	(120 + 15) minutes
240	One	C	<0.5% HCl	>60%	(120 + 15) minutes
300	One	C	<0.5% HCl	>60%	(120 + 15) minutes
400	One	C	<0.5% HCl	>60%	(120 + 15) minutes
500	One	-	<0.5% HCl	>60%	(120 + 15) minutes
630	One	-	<0.5% HCl	>60%	(120 + 15) minutes
800	One	-	<0.5% HCl	>60%	(120 + 15) minutes

### Uo/U 450/750V

#### Notes:

1. Stranded conductors only.
2. Where a single cable is tested in a conduit, only phase to earth voltage was applied.
3. When testing to BS 6387:2013, for Categories CWZ, testing was conducted using a 20mm or 38mm stainless steel conduit. Either one or three conductors are tested, and this is dependent on cable diameter. The conduit in all cases is connected to the neutral of the transformer.
4. The Cu/Mica/LSHF Cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 750°C for a duration of 120 + 15 minutes cool down period, at a voltage rating of 450V.

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*Obada Al-eis*

Signed for BRE Global Ltd.

Obada Piracha  
Certification Scheme Manager

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