

Certificate of Product Approval

Certificate Number: 333a

Issue: 17

WREXHAM MINERAL CABLES

Wynnstay Technology Park
Ruabon
Wrexham
Clwyd
LL14 6EN

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:
Wrexham Mineral Insulated Cables

Standard(s) (see Appendix for details)

EN 60702-1:2002+A1:2015
BS 6387:2013 CWZ
EN 60754-1:2014
EN 50200:2015 PH120
BS 8434-2:2003+A2:2009
BS 5839-1:2013 (Enhanced)
BS 8491:2008
BS 8519:2010 Category 3

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



Signed for BRE Global Ltd.

Karen Coull
Certification Scheme Manager

15 October 2020
Date of Issue

12 March 1998
Date of First issue



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Appendix to Certificate No: 333a WREXHAM MINERAL CABLES

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Product name					LPCB Ref. No.
Wrexham Mineral Insulated Cables (WMIC Heavy Duty)					333a/01
Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	BS 8519 Clause 11
1.5 ^(1,2)	One, 2, 3, 4, 7, 12 & 19	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
1.5 – 2.5 ^(1,2)	2, 3, 4, 7, 12 & 19	-	-	-	Cat 3 ⁽⁸⁾
2.5 ^(1,2)	One, 2, 3, 4, 7 & 12	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
4 ^(1,2)	One, 2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
6 ^(1,2)	One, 2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
10 ^(1,2)	One, 2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
16 ^(1,2)	One, 2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	-
25 ^(1,2)	One, 2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾ -
4 - 25 ^(1,2)	2, 3 & 4	-	-	-	Cat 3 ⁽⁸⁾
35 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
50 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
70 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾

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Wrexham Mineral Insulated Cables (WMIC Heavy Duty)					333a/01
Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	BS 8519 Clause 11
95 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
120 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
150 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
185 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
240 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
300 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾
400 ^(1,2)	One	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	Cat 3 ⁽⁸⁾

Uo/U 450/750 V

Notes:

1. Solid conductor only.
2. The Wrexham Mineral Insulated Heavy Duty Cables were tested at a voltage rating of 450/750V.
3. Approval applies to the Bare and Served cables.
4. Approval applies to the Served cable only.
5. In meeting the requirements of EN 60702-1: 2002+A1:2015, the Wrexham Mineral Insulated Served Cables listed met the requirements of smoke density of IEC 61034-2: 2005 and met the requirements of pH & conductivity when tested in accordance with IEC 60754-2: 2011.
6. The Wrexham Mineral Insulated Served Cables listed with OD less than 20mm conform to EN 60702-1: 2002+A1:2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met the 120 mins duration when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1: 2013.

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- The Wrexham Mineral Insulated Served Cables with OD greater than 20mm, additionally met the fire resistance requirements for 120 minutes when tested according to BS 8491:2008.
- The Wrexham Mineral Insulated Served Cables conform to EN 60702-1: 2002+A1:2015, met the fire resistance requirements for 120 mins according to BS 8491:2008 and hence met the requirements for Cat 3 power cables according to BS 8519: 2010 clause 11.

Product name							LPCB Ref. No.
Wrexham Mineral Insulated Cables (WMIC Light Duty)							333a/01
Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)
1.0 ^(1,2)	2, 3, 4 & 7	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)
1.5 ^(1,2)	2, 3, 4 & 7	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)
2.5 ^(1,2)	2, 3, 4 & 7	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)
4.0 ^(1,2)	2	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)

Uo/U 300/500 V

Product name							LPCB Ref. No.
Wrexham Mineral Insulated Cables (WMIC Twisted Light Duty)							333a/01
Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)
1.0T ^(1,2)	2	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)

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Wrexham Mineral Insulated Cables (WMIC Twisted Light Duty)							333a/01
Nominal csa of conductor (mm ²)	Core Construction	EN 60702-1	BS 6387	EN 60754-1 (outer covering)	EN 50200	BS 8434-2	BS 5839-1 (clause 26.2)
1.5T ^(1, 2)	2, 3 & 4	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)
2.5T ^(1, 2)	2	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)
4.0T ^(1, 2)	2	Complies ^(3,5)	CWZ ⁽³⁾	<0.5% HCl ⁽⁴⁾	PH120 ⁽⁴⁾	120min ⁽⁴⁾	Enhanced ^(4,6)

Uo/U 300/500 V

Notes:

1. Solid conductor only.
2. The Wrexham Mineral Insulated Light Duty Cables were tested at a voltage rating of 300/500V.
3. Approval applies to the Bare and Served cables.
4. Approval applies to the Served cable only.
5. In meeting the requirements of EN 60702-1: 2002+A1:2015, the Wrexham Mineral Insulated Served Cables listed met the requirements of smoke density of IEC 61034-2: 2005 and also met the requirements of pH & conductivity when tested in accordance with IEC 60754-2: 2011.
6. The Wrexham Mineral Insulated Served Cables conform to EN 60702-1: 2002+A1:2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met the 120min duration when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2e of BS 5839-1: 2013.

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