

Loss Prevention Certification Board

LPCB

This is to certify

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.

Wrexham Mineral Insulated Cables

(refer to attached appendix for details)

have complied with the requirements of the following:

BS EN 60702-1: 2002 – Mineral insulated cables and their terminations with a rated voltage not exceeding 750V.

BS 6387: 1994 – Performance requirements for cables required to maintain circuit integrity under fire conditions.

Enhanced fire resistant cables as described in Clause 26.2 of BS 5839-1: 2013 - Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises.

and achieved:

Class PH120 when tested in accordance with BS EN 50200: 2006 – Method of test for resistance to fire of unprotected small cables for use in emergency circuits.

<0.5%HCl when tested in accordance with BS EN 50267-2-1: 1999 – Method of test for Gases evolved during combustion of electric cables.

Certificate No. 333a

Issue No. 12

Date of Issue 09 May 2013

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APPENDIX TO CERTIFICATE NO. 333a

WREXHAM MINERAL CABLES

Products

LPCB Ref. No.

Wrexham Mineral Insulated Cables

333a/01

Nominal csa of conductor (mm ²)	Core construction	BS EN 60702-1 (see note 6)	BS 6387	BS EN 50267-2-1 (outer covering)	BS EN 50200	BS 8434-2	BS 5839-1 Clause 26.2
WMIC Heavy Duty							
1.5 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
1.5 ^(1,3)	7, 12 & 19	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
2.5 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
2.5 ^(1,3)	7 & 12	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
4.0 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
6.0 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
10 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
16 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
25 ^(1,3)	one, 2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
35 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
50 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
70 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
95 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
120 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
150 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
185 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
240 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
300 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
400 ^(1,3)	one	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)

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APPENDIX TO CERTIFICATE NO. 333a

WREXHAM MINERAL CABLES

Products

LPCB Ref. No.

Wrexham Mineral Insulated Cables

333a/01

Nominal csa of conductor (mm ²)	Core construction	BS EN 60702-1 (see note 6)	BS 6387	BS EN 50267-2-1 (outer covering)	BS EN 50200	BS 8434-2	BS 5839-1 Clause 26.2
WMIC Light Duty							
1.0 ^(1,2)	2, 3, 4 & 7	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
1.5 ^(1,2)	2, 3, 4 & 7	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
2.5 ^(1,2)	2, 3, 4 & 7	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
4.0 ^(1,2)	2	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
WMIC Twisted Light Duty							
1.0T ^(1,2)	2	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
1.5T ^(1,2)	2, 3 & 4	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
2.5T ^(1,2)	2	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)
4.0T ^(1,2)	2	Complies ⁽⁴⁾	C,W,Z ⁽⁴⁾	<0.5% HCl ⁽⁵⁾	Class PH120 ⁽⁵⁾	120min ⁽⁵⁾	Enhanced ^(5,7)

Note 1: Solid conductor only.

Note 2: The Wrexham Mineral Insulated Light Duty Cables were tested at a voltage rating of 300/500V.

Note 3: The Wrexham Mineral Insulated Heavy Duty Cables were tested at a voltage rating of 450/750V.

Note 4: Approval applies to the Bare and Served cables.

Note 5: Approval applies to the Served cable only.

Note 6: In meeting the requirements of BS EN 60702-1: 2002, 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.

Note 7: The Wrexham Mineral Insulated Served Cables listed conform to BS EN 60702-1: 2002, met Class PH120 when tested in accordance with BS EN 50200: 2006 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 26.2 of BS 5839-1: 2013.

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