



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx CML 15.0051U

Issue No: 2

Certificate history:

Status: **Current**

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Issue No. 2 (2019-08-23)

Date of Issue: **2019-08-23**

Issue No. 1 (2016-08-22)

Issue No. 0 (2015-08-27)

Applicant: **Abtech Limited**
199 Newhall Road,
Lower Don Valley,
Sheffield,
S9 2QJ
United Kingdom

Ex Component: **MV Terminal**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased safety**

Marking:
Ex eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Helen Amos

Position:

Technical Manager

Signature:
(for printed version)

Date:

August 23, 2019

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Abtech Limited**
199 Newhall Road,
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Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2
IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/CML/ExTR15.0055/00](#) [GB/CML/ExTR16.0117/00](#)

Quality Assessment Report:

[GB/CML/QAR16.0021/02](#)



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Schedule

Ex Component(s) covered by this certificate is described below:

The MV Terminal is manufactured from a fibreglass reinforced polyester material. There are two connection studs per terminal that are connected via a copper current bar. Cable connection is via lugs that are held in place with a single nut and split locking washer. The nut shall be tightened to a torque of 6 to 12 Nm.

The maximum current rating is 250 A, the voltage rating and cables size vary depending on application and are detailed in drawings ABT29448 and ABT29513.

Operating Temperature Range: -40°C to 130°C

SCHEDULE OF LIMITATIONS:



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1

This issue introduced the following changes:

1. To update IEC 60079-7:2007 standard to the latest edition, IEC 60079-7:2015
2. To update the marking to reflect the latest edition of IEC 60079-7:2015
3. Standard reference in condition of manufacture updated to show IEC 60079-7:2015

Issue 2

This issue introduced the following changes:

1. To update QAR reference

Annex:

[Certificate Annex IECEX CML 15.0051U Issue 2.pdf](#)

Annexe to: IECEx CML 15.0051U Issue 2
Applicant: Abtech Limited
Apparatus: MV Terminal



Description

The MV Terminal is manufactured from a fibreglass reinforced polyester material. There are two connection studs per terminal that are connected via a copper current bar. Cable connection is via lugs that are held in place with a single nut and split locking washer. The nut shall be tightened to a torque of 6 to 12 Nm.

The maximum current rating is 250 A, the voltage rating and cables size vary depending on application and are detailed in drawings ABT29448 and ABT29513.

Operating Temperature range
-40°C to 130°C

Conditions of Manufacture

The following are conditions of manufacture:

1. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
2. A routine electric strength test of 14.2 kV shall be performed on each terminal in accordance with IEC 60079-7:2015 Ed 5, Clause 7.1
3. A copy of this certificate shall be supplied with each terminal assembly.
4. A copy of drawing ABT29448 shall be supplied with each terminal.

Schedule of Limitations

The following conditions relate to safe installation and/or use of the equipment.

1. The terminal assembly shall be installed in a suitably approved enclosure with a minimum of IP54 for gas and IP6X for dust applications.
2. When incorporated into equipment, the terminals shall be suitably installed so to be protected from mechanical strain from the cables pulling.

Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ

T +44 (0) 151 559 1160
E info@cmllex.com

www.cmllex.com

Company Reg No. 8554022 VAT No. GB163023642

