



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx CML 16.0021X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 3 [Issue 2 \(2020-02-03\)](#)  
Date of Issue: 2020-12-24 [Issue 1 \(2016-09-16\)](#)  
[Issue 0 \(2016-05-17\)](#)  
Applicant: **CCG Cable Terminations (Pty) Ltd**  
33 - 37 Forge Road  
Spartan Industrial Area  
Kempton Park 1620  
**South Africa**  
Equipment: **BD\*\*\* Breather / Drainer Plugs and BA\*\*\*E Breather Drainer Adapter**  
Optional accessory:  
Type of Protection: **Ex eb or Ex db and Ex tb**  
Marking: 

BD***E & BA***E	BD***D
Ex eb IIC Gb	Ex db IIC Gb
Ex eb I Mb	Ex db I Mb
Ex tb III C Db	Ex tb III C Db
IP66	IP6X 'dust-tight'

Approved for issue on behalf of the IECEx  
Certification Body:

**A Snowdon MIET**

Position:

**Assistant Certification Manager**

Signature:  
(for printed version)

*A Snowdon*

Date:

2020-12-24

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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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Page 2 of 4

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Manufacturer: **CCG Cable Terminations (Pty) Ltd**  
33 - 37 Forge Road  
Spartan Industrial Area  
Kempton Park 1620  
**South Africa**

Additional manufacturing locations:

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 products 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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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

## TEST & ASSESSMENT REPORTS:

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

Test Reports:

[GB/CML/ExTR16.0046/00](#)  
[GB/CML/ExTR20.0271/00](#)

[GB/CML/ExTR16.0130/00](#)

[GB/CML/ExTR20.0004/00](#)

Quality Assessment Report:

[ZA/ICS/QAR14.0001/06](#)



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Certificate No.: **IECEx CML 16.0021X**

Page 3 of 4

Date of issue: 2020-12-24

Issue No: 3

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

BD\*\*\*\* Breather/Drain Plugs and BA\*\*\*\*E Breather/Drain Adapter for Hazardous Areas

**Refer to certificate Annex for full description.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

**See Annex for Specific Conditions of Use**



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Certificate No.: **IECEx CML 16.0021X**

Page 4 of 4

Date of issue: 2020-12-24

Issue No: 3

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### **Issue 1**

1. Addition of IP rating to certificate marking and clarify a Condition of Certification.

### **Issue 2**

1. To implement the introduction of the BA\*\*\*\*E Breather/Drain Adapter
2. To include the addition of M12 and M16 model sizes to the BD\*\*\*\*E Breather/Drain
3. To update temperature ranges for the sealing gaskets.
4. To update the certification to the latest standards

### **Issue 3**

1. The optional marking of the Breather/Drain arrangements for use in Group I applications.
2. The marking and Specific Conditions of Use have been updated in-line with the above modification.

### **Annex:**

[IECEx CML 16.0021X Annex Issue 3.pdf](#)

**Annexe to:** IECEx CML 16.0021X Issue 3  
**Applicant:** CCG Cable Terminations (Pty) Ltd  
**Apparatus:** BD\*\*\*\* Breather / Drainer Plugs and  
BA\*\*\*E Breather Drainer Adapter



## Description

### **BD\*\*\*\* Breather/Drain Plugs for Hazardous Areas**

The BD\*\*\*D Ex d breather/drain assembly consists of a main body made from either: Brass, Stainless Steel or Mild Steel and an internal plug made from the same material. The Ex d breather/drain has a sinter between plug and main body, this is held in place with a press fit and further secured with a screwed plug. The sinter bush has material options of stainless steel or bronze, both of an average pore size of no more than 80µm.

The Ex d breather/drain further uses sealing gaskets to create a seal against the given enclosure. The breather / drain has the following basic size options: M20, M25, ½"NPT and ¾"NPT. Larger thread sizes are also allowed, but the inner plug will remain the same size and the protrusion length will be no greater than for the M25 size.

The BD\*\*\*E Ex e breather/drain assembly consists of a main body, sinter and castellated locking nut. With the main body and locking nut having material options: Brass, Stainless Steel and Mild Steel, and the press fit sinter bush having a material option of stainless steel or bronze, both of an average pore size of no more than 80µm.

There is a further optional assembly using an internal tooth lock washer and standard locknut in replacement of the castellated nut. The breather/drain also uses sealing gaskets, between the main body and outer enclosure.

The breather / drain has the following basic size options: M12, M16, M20, M25, ½"NPT and ¾"NPT. Larger thread sizes are also allowed, but the inner features and the protrusion length will be no greater than for the M25 size.

### **BA\*\*\*\*E Breather/Drain Adapter for Hazardous Areas**

The BAE Ex e breather/drain adapter assembly consists of a main body, a sintered ring, sealing gasket, and either a castellated nut, or a combination of serrated washer and locknut for use when fitted to unthreaded entries. The main body is constructed from either Brass, Stainless Steel or Mild Steel. The sinter has an average pore size of no more than 80µm and material options of Bronze or Stainless Steel.

The breather/drain adapter has the following basic male size options: M20, M25, M32, NPT ½, NPT ¾ or NPT1, along with female thread options as follows: M20, M25, M32, M40, NPT ½, NPT ¾, NPT 1, NPT 1¼. Female threads are permitted to be either the same size as the male thread or any size smaller or one size larger.

## Conditions of Manufacture

None.

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## Specific Conditions of Use

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

1. The breather drain plugs/adapters shall be used with the supplied sealing washers and the installer shall ensure that the surface of the enclosure against which the sealing gasket seals is in good condition.
2. The breather drain plugs/adapters must be installed at the bottom of the equipment.
3. When used in Ex db applications, the breather drain plugs shall not be used with any form of entry device.
4. For Group I applications, the Breather/Drains shall only be installed in locations where the risk of mechanical impact is low.
5. The following service temperature ranges shall not be exceeded:

Breather / Drainer	Service Temperature
BD***D (All arrangements)	-60°C to +95°C
BD***E & BA***E (HDPE gasket)	-60°C to +95°C
BD***E & BA***E (Nylon gasket)	-60°C to +100°C
BD***E & BA***E (PTFE gasket)	-60°C to +160°C