



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx CML 16.0059U**

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Certificate history:

Status: **Current**

Issue No: 3

[Issue 2 \(2018-09-04\)](#)

[Issue 1 \(2016-09-16\)](#)

[Issue 0 \(2016-07-10\)](#)

Date of Issue: 2023-02-28

Applicant: **CCG Cable Terminations PTY Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park 1619
South Africa

Ex Component: Fixed 90°, 'T' and 'Y' Adaptors

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: **Flameproof "db", Increased Safety "eb", Dust Ignition "ta"**

Marking: Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

Ex db I Mb

Ex eb I Mb

IP65 / IP66 / IP67 / IP68 - refer to Schedule of Limitations

Approved for issue on behalf of the IECEx
Certification Body:

S. Roumbedakis

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

2023-02-28

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 www.iecex.com or use of this QR Code.



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: **CCG Cable Terminations PTY Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park 1619
South Africa

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 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 60079-0:2017 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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/CML/ExTR16.0073/00
GB/CML/ExTR22.0143/00

GB/CML/ExTR16.0131/00

GB/CML/ExTR18.0203/00

Quality Assessment Report:

ZA/ICS/QAR14.0001/08



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

The Fixed (i.e., non-adjustable) 90°, 'T' and 'Y' adaptors are manufactured with a male threaded portion at one end and female(s) at the other. The Fixed adaptors are intended for use where space is limited and there may not be room to fit a gland and cable in the conventional manner. They are intended for fitting to a threaded or plain hole (Ex eb applications only) when they are secured using a locknut.

Refer to Certificate Annex for full Product Description.

SCHEDULE OF LIMITATIONS:

Refer to Certificate Annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following change:

1. Addition of IP rating to certificate marking.

Issue 2

This issue introduced the following changes:

1. To include 'T' and 'Y' Adaptor versions.
2. To update approval to IEC 60079-0:2017 standard

Issue 3

This issue introduced the following changes:

1. To update the description as a result of the modifications.
2. To update the coding from Ex tb IIIC Db to Ex ta IIIC Da.
3. To introduce a nylon sealing washer option. As a result, a new schedule of limitation was introduced.
4. To update the temperature limitation of the HDPE sealing washer. As a result, the schedule of limitation was amended.
5. To include the RE-FLEx sealing cord as an option.
6. To include ET threads.
7. To remove the swivel 90°, 'T' and 'Y' adaptors. (They have been moved to another certificate.)
8. To update EN IEC / IEC 60079-7 to the latest edition.
9. To allow the use of the grease for NPT threads to achieve IP68.
10. To permit changes to the Schedule of Limitations.

Annex:

[IECEx CML 16.0059U - Certificate Annex Issue 3_1.pdf](#)

Annexe to: IECEx CML 16.0059U Issue 3
Applicant: CCG Cable Terminations PTY Ltd
Apparatus: Fixed 90°, 'T' and 'Y' Adaptors

Description

The Fixed (i.e., non-adjustable) 90°, 'T' and 'Y' adaptors are manufactured with a male threaded portion at one end and female(s) at the other. The Fixed adaptors are intended for use where space is limited and there may not be room to fit a gland and cable in the conventional manner. They are intended for fitting to a threaded or plain hole (Ex eb applications only) when they are secured using a locknut.

The Fixed 90°, 'T' and 'Y' adaptors are available with Metric (M20 to M32), NPT, ET, BSPP or BSPT (1/2" to 1") male and female threads with the female threads the same size as, or any size smaller than the male thread.

On the 'T' and 'Y' adaptors the female threads do not need to be the same size as each other.

Design Options:

- 90° Elbow Adaptors
- 'T' Adaptors
- 'Y' Adaptors

Materials of Manufacture

- Brass (CZ121)
- HDPE (D7255/HL), PTFE (CCG PTFE-001), Nylon (6)

Notes

1. Adaptors with parallel entry threads (e.g. Metric and BSP parallel) are supplied with fitted sealing gaskets on the male thread as standard. The sealing gasket is optional for Ex d applications without IP rating.
2. All units are rated IP65 for any sealing arrangement. Units with parallel threads shall be used with the supplied washer if an IP rating of IP66/67/68 is required. NPT threads are at least IP65 as standard, but IP68 (2m) can be achieved if one of the following grease types is applied to the NPT thread before fitting:- Renolit Lubrene CA 700, Renolit LC-WP2, Renolit Lubrene LX 220 EP2, Renolit Moly LX 2 or Dow Corning 4 Electrical Compound.
3. RE-FLEEx sealing cord can be used as an alternative to a standard sealing gasket to achieve IP66/68. It is intended as a retro-fit solution and must be installed according to the fitting instructions supplied with it.



Conditions of Manufacture

None.

Schedule of Limitations

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

- i. All adaptors are rated IP65 for any sealing arrangement. If an IP rating of IP66/67/68 is required, the supplied sealing washer or the specified grease shall be used (threaded entries only).
- ii. A service temperature of -60°C to +95°C shall not be exceeded when a HDPE sealing washer is utilised.
- iii. A service temperature of -60°C to +100°C shall not be exceeded when a Nylon sealing washer is utilised.
- iv. A service temperature of -60°C to +160°C shall not be exceeded when a PTFE sealing washer is utilised.
- v. A service temperature of -60°C to +100°C shall not be exceeded when thread grease is utilised.

Components covered by Ex Certificates issued to older editions of Standards

None.