

UK Type Examination Certificate CML 21UKEX1012U Issue 1**United Kingdom Conformity Assessment**

- 1 Component Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Component **Fixed 90°, 'T' and 'Y' Adaptors**
- 3 Manufacturer **CCG Cable Terminations PTY Ltd**
- 4 Address **33-37 Forge Road
Spartan Industrial Area
Kempton Park 1619
South Africa**

5 The component is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 The 'U' suffix after the certificate number indicates that the component is subject to limitations (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified component. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

10 The equipment shall be marked with the following:



I M2

Ex db I Mb

Ex eb I Mb



II 2 G, 1 D

Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

IP65 / IP66 / IP67 / IP68





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11 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.

RE-FLEx 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.



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Variation 1

This variation introduces the following modifications:

- i. To update the description as a result of the modifications.
- ii. To update the coding from Ex tb IIIC Db to Ex ta IIIC Da.
- iii. To introduce a nylon sealing washer option. As a result, a new schedule of limitation was introduced.
- iv. To update the temperature limitation of the HDPE sealing washer. As a result, the schedule of limitation was amended.
- v. To include the RE-FLEEx sealing cord as an option.
- vi. To include ET threads.
- vii. To remove the swivel 90°, 'T' and 'Y' adaptors. (They have been moved to another certificate.)
- viii. To update EN IEC / IEC 60079-7 to the latest edition.
- ix. To allow the use of the grease for NPT threads to achieve IP68.
- x. To permit changes to the Schedule of Limitations.
- xi. To update the certificate template

12 Certificate history and evaluation reports

| Issue | Date | Associated report | Notes |
|-------|-------------|-------------------|-----------------------------|
| 0 | 25 Jan 2021 | R13654G/00 | Issue of Prime Certificate |
| 1 | 28 Feb 2023 | R15541A/00 | Introduction of Variation 1 |

Note: Drawings that describe the component are listed in the Annex.

13 Conditions of Manufacture

None

14 Schedule of Limitations

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

- 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.

Certificate Annex

Certificate Number CML 21UKEX1012U
Component Fixed 90°, 'T' & 'Y' Adaptors
Manufacturer CCG Cable Terminations PTY Ltd



The following documents describe the component defined in this certificate:

Issue 0

| Drawing No | Sheets | Rev | Approved date | Title |
|-----------------|--------|-----|---------------|-----------------------------------|
| AELB - ASSY | 1 of 1 | 1 | 25 Jan 2021 | ADJUSTABLE ELBOW GENERAL ASSEMBLY |
| AT ADAPTOR ASSY | 1 of 1 | 1 | 25 Jan 2021 | ADJUSTABLE T ADAPTOR ASSEMBLY |
| AY ADAPTOR ASSY | 1 of 1 | 1 | 25 Jan 2021 | ADJUSTABLE Y ADAPTOR ASSEMBLY |
| FELB ASSEMBLY | 1 of 1 | 1 | 25 Jan 2021 | 90° FIXED ADAPTOR ASSEMBLY |
| FT ADAPTOR ASSY | 1 of 1 | 1 | 25 Jan 2021 | FIXED T ADAPTOR ASSEMBLY |
| FY ADAPTOR ASSY | 1 of 1 | 1 | 25 Jan 2021 | FIXED Y ADAPTOR ASSEMBLY |

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| Drawing No. | Sheets | Rev | Approved date | Title |
|-----------------|--------|-----|---------------|------------------------------|
| FELB ASSY | 1 of 1 | 2 | 28 Feb 2023 | FIXED ELBOW GENERAL ASSEMBLY |
| FT ADAPTOR ASSY | 1 of 1 | 2 | 28 Feb 2023 | FIXED T ADAPTOR ASSEMBLY |
| FY ADAPTOR ASSY | 1 of 1 | 2 | 28 Feb 2023 | FIXED Y ADAPTOR ASSEMBLY |