



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

Certificate No.: **IECEX CML 20.0137X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2021-02-16\)](#)
[Issue 0 \(2020-12-18\)](#)
Date of Issue: 2023-10-31
Applicant: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-Under-Lyne
Lancashire OL7 0NA
United Kingdom
Equipment: **Type 501/RCG**
Optional accessory:
Type of Protection: **Increased Safety Ex eb, Dust Ex tb**
Marking: Ex eb II* T** Gb
Ex tb III* T** Db
 $T_{amb} = -60^{\circ}\text{C}$ to $+60^{\circ}\text{C}^{**}$
The equipment can be marked for all Gas and Dust groups, IIA, IIB or IIC and IIIA, IIIB or IIIC
(*/**) See Annex for related ambient and temperature class

Approved for issue on behalf of the IECEx
Certification Body:

A Snowdon

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2023-10-31

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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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 60079-31:2013](#) 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/ExTR20.0185/00](#)

[GB/CML/ExTR21.0026/00](#)

[GB/CML/ExTR23.0233/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0061/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Type 501/RCG (Rapid Connection Gland) is designed to allow rapid electrical coupling of cables.

Refer to Certificate Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex for Specific Conditions of Safe Use.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following changes:

1. To introduce the 0.75mm² conductor size to the equipment for both 4 and 6 pins variants.
2. To update the description to include the rated current for the new Connection size and other model variants.
3. To include an additional specific condition of safe use.
4. To amend the equipment name.
5. To remove an irrelevant Condition of Manufacture.

Issue 2

This issue introduced the following changes:

1. To modify the wording of the specific conditions of use, and the removal of a condition of manufacture.
2. To update the rating table options.

Annex:

[Certificate Annex IECEx CML 20.0137X Iss 2.pdf](#)

Annexe to: IECEx CML 20.0137X, Issue 2
Apparatus: Type 501/RCG (Rapid Connection Gland)
Applicant: Hawke International (A division of Hubbell Limited) (A Member of the Hubbell Group of Companies)



Description

The Type 501/RCG (Rapid Connection Gland) is designed to allow rapid electrical coupling of cables. The equipment's metallic body and clamping parts are manufactured from brass, stainless steel or aluminium and contains a polymeric insert. The equipment may include the following components to form 501/RCG Entry, Body and or the Coupler:

- Entry component: Two sizes M20 and M25
- Middle nut
- Spigot
- Reversible armour clamping ring
- Back nut seal
- Back nut clamp
- Back nut
- Internal terminal socket/crimp inserts (male and female pins)
- O-ring
- Deluge Boot
- Extension insert and extension tube

The product consists of modular components which can be used to either connect to equipment or to create an inline cable connection. The modular variants are:

The 501/RCG Entry assembly may be installed onto enclosures or fittings and consist of a metallic entry component fitted with a polymeric insert. This insert is populated with male pin contacts which make crimped connection to cable conductors.

The 501/RCG Body assembly is used to terminate cable. The assembly consists of metallic centre nut, middle nut, and back nut. Inside the middle nut may be housed an armour clamping ring and spigot. A polymeric insert may be mounted to the spigot. The insert is populated with female socket contacts which make a screwed connection to cable conductors. Inside the back nut is an elastomeric sealing ring and polymeric cage which form an ingress protection seal with the cable outer sheath when installed.

The 501/RCG Coupler is used as an inline connection to cables terminated with 501/RCG Bodies. The coupler consists of a metallic outer tube and a polymeric insert containing male through pin connections. The 501/RCG Coupler may alternatively be fitted with a metallic adaptor to allow cable termination with suitable cable glands fitted to one side of the product.

The 501/RCG products can be provided with Hawke GMC accessories, and if fitted no further clamping of cables is required.

The equipment has the provision for braided, armour and non-armour cables with 4 to 6 pins configuration with solid or stranded conductors' size 0.75mm² up to 6mm².

The conductors may be used with crimp ferrules as an option. The equipment is rated up to 300V AC or 212V DC and IK10 impact rated as per IEC 62262.



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Version: 10.0 Approval: Approved



Eurofins E&E CML Limited
Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK



Temperature rating table vs Amperage:

Product	Product Size	Conductor Size mm ²	Amperage for T5/100°C @50°C	Amperage for T6/85°C @+60°C
501/RCG Entry and Body	4 Pin	0.75	5	5
		1.5	5	5
		2.5	16	10
		4	18	12
		6	30	20
	6 Pin	0.75	5	5
		1.5	5	5
		2.5	16	10
		4	18	12
		6	25	20
501/RCG Coupler	4Pin	0.75	5	5
		1.5	10	5
		2.5	16	10
		4	18	12
		6	30	20
	6Pin	0.75	5	5
		1.5	10	5
		2.5	16	10
		4	18	12
		6	30	20

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.

- i. Do not disconnect product when energised and in a hazardous area.
- ii. When disconnected in a hazardous area, the product must be immediately capped to maintain IP ratings for the Ex protection concepts.
- iii. When disconnected in a hazardous area, so long as the provided blanking caps are fitted, the product may then be energised.
- iv. The socket grub screws shall be tightened and secured by thread locking compound provided.
- v. When a coupler is fitted with an adapter, a suitable cable gland shall be utilised.
- vi. Product ambients:
 - For T6/T80°C applications, the upper ambient temperature shall not exceed +60°C.
 - For T5/T95°C applications, the upper ambient temperature shall not exceed +50°C.

Components used which are covered by Ex Certificates issued to older editions of Standards

None



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