



# 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.:	<b>IECEx ExTC 22.0036X</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 1	<a href="#">Issue 0 (2023-03-15)</a>
Date of Issue:	2023-09-18		
Applicant:	<b>CMI Electrical Products</b> Unit F3 29 Birnie Avenue Lidcombe NSW 2141 <b>Australia</b>		
Equipment:	<b>CMI 60A 660V/1100V Restrained Range of Cable Coupling Devices</b>		
Optional accessory:			
Type of Protection:	<b>Flameproof 'd'</b>		
Marking:	Ex db I Mb IP66/68 (Refer to the Description for details)		

Approved for issue on behalf of the IECEx  
Certification Body:

**David Price**

Position:

**Certification Authority**

Signature:  
(for printed version)

Date:  
(for printed version)

2023-09-18

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Ex Testing and Certification Pty Ltd**  
1/30 Kennington Drive  
Tomago NSW 2322  
**Australia**



TESTING & CERTIFICATION



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Manufacturer: **CMI Electrical Products**  
Unit F3  
29 Birnie Avenue  
Lidcombe NSW 2141  
**Australia**

Manufacturing  
locations: **CMI Electrical Products**  
Unit F3  
29 Birnie Avenue  
Lidcombe NSW 2141  
**Australia**

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 60079-1:2007](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

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 Report:

[AU/ExTC/ExTR22.0057/00](#)

Quality Assessment Report:

[AU/TSA/QAR11.0009/09](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The 60A, 1100V/660V series comprises Restrained Receptacles, Restrained Plugs, Dummy Plugs, Phase Condition Indicator Plugs, Back-to-Back Receptacles and Restrained Receptacles with cable gland and bracket. The equipment is manufactured by CMI Electrical Products, who is also known under name Minto Industrial Products (M.I.P).

Refer to the Annex for more details.

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

Refer to the Annex for details



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

Refer to the Annex for details



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**Additional information:**

ExTC Job : 23028

**Annex:**

[IECEx ExTC 22.0036X-1 Certificate Annex - Final.pdf](#)

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**Description (Continued from certificate):**

The complete assembly consists of a plug, which has three power conducting (phase) sockets and one pilot circuit socket and a receptacle with corresponding phase and pilot pins. Two plugs may be coupled together by means of a restrained coupling device referred to as restrained back-to-back receptacle.

The receptacle may be fitted with a mounting bracket which is designed to match the flange of the receptacle. One possible use of this mounting bracket is to assemble it together with the adaptor so that a separately certified cable gland may be used to provide support for a cable to the receptacle.

The connectors range is rated up to 60A, 660V and 1100V, all with 3 main contacts plus a pilot contact.

Catalogue Number	Description
AF614S	60A 1100V RESTRAINED PLUG
AF664S	60A 660V RESTRAINED PLUG
AF614R	60A 1100V RESTRAINED PLUG WITH INTEGRAL GLAND
AF664R	60A 660V RESTRAINED PLUG WITH INTEGRAL GLAND
AG614B	60A 1100V RESTRAINED RECEPTACLE
AG664B	60A 660V RESTRAINED RECEPTACLE
AH614B	60A 1100V RESTRAINED BACK TO BACK RECEPTACLE
AH664B	60A 660V RESTRAINED BACK TO BACK RECEPTACLE
AR611S	60A 1100V RESTRAINED DUMMY PLUG
AR661S	60A 660V RESTRAINED DUMMY PLUG
AT614R	60A 1100V RESTRAINED PHASE CONDITION INDICATOR
AT664R	60A 660V RESTRAINED PHASE CONDITION INDICATOR
F-4575-20	M20x1.5 Gland Adaptor
F-4575-25	M25x1.5 Gland Adaptor
F-4575-32	M32x1.5 Gland Adaptor
F-4575-40	M40x1.5 Gland Adaptor

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F-4575-50	M50x1.5 Gland Adaptor
F-4575-63	M63x1.5 Gland Adaptor

Table 1 : Catalogue Model List

The special fasteners and/or nuts used to assemble the receptacle to the associated Ex d enclosure shall be of the minimum grade 4.6 (yield stress 240 MPa) or for stainless steel minimum grade A\*-70 (yield stress 450MPa).

Mounting and flameproof dimensions of the associated Ex d enclosure interfacing with the receptacle shall comply with the dimensions shown in certified documents to maintain the flameproof integrity of the flanged joint between Ex d enclosure and receptacle.

The Restrained Plug, Restrained Back to Back Receptacle, Restrained Receptacle, Gland Adaptor and Restrained Plug with Integral Gland have an ingress protection rating IP66/68 (2 metres for 30 minutes) according to the requirements of IEC 60529. The Dummy Plug and Phase Condition Indicator (PCI) have an ingress protection rating of IP66 only.



The manufacturers document TRP-4 "Termination and Maintenance Instructions for 60 AMP 660/1100 Volt Restrained Range" is available and provides instruction regarding installation of the equipment.

**Specific Conditions of Use pertaining to Issue 0 of this Certificate:**

1. Some flameproof joints are more onerous than the dimensions in IEC 60079-1:2007 Table 1. Refer to the certified drawings for details. These shall be taken into account during maintenance and overhaul.
2. The special fasteners used to assemble the plug and gland shall be minimum grade 4.6 (yield stress 240MPa) or for stainless steel minimum grade A\*-70 (Yield stress 450MPa).

**Drawing list pertaining to Issue 0 of this Certificate:**

<b><u>Manufacturer's Documents</u></b>				
Title:	Drawing No.:	Pages	Rev. Level:	Date:
60A MOUNTING BRACKET	F-890	1	A	2023-01-31
60A 660/1100V RESTRAINED PLUG	F-891	1	A	2023-02-06
60A 660/1100V RESTRAINED RECEPTACLE	F-892	1	A	2023-02-06
60A 660/1100V RESTRAINED DUMMY PLUG	F-893	1	A	2023-02-06

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Title:	Drawing No.:	Pages	Rev. Level:	Date:
60A 660/1100V RESTRAINED PLUG WITH INTEGRAL GLAND	F-894	1	A	2023-02-06
60A 660/1100V RESTRAINED BACK / BACK RECEPTACLE	F-895	1	A	2023-02-06
60A 660/1100V RESTRAINED PHASE CONDITION INDICATOR	F-896	1	A	2023-02-06
60A GLAND ADAPTOR	F-897	1	A	2023-02-06
Termination and Maintenance Instructions for 60 AMP 660/1100 VOLT Restrained Range	TRP-4	3	D	2023-03-15

**Variations permitted by Issue 1 of this certificate:**

Change of Applicant and Manufacturer location to new facility.

**Specific Conditions of Use pertaining to Issue 1 of this Certificate:**

No changes to the conditions from Issue 0 of the certificate.

**Drawing list pertaining to Issue 1 of this Certificate:**

No changes to the drawings from Issue 0 of the certificate.