



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 TSA 14.0018	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2014-12-23)
Date of Issue:	2023-09-22		
Applicant:	CMI Electrical Products Unit F3, 3 - 29 Birnie Avenue Lidcombe 2141 Australia		
Equipment:	Cable Glands, Blanking Plugs and Reducers		
Optional accessory:			
Type of Protection:	Ex db I/IIC, Ex eb I/IIC, Ex ta IIC		
Marking:	CMI SUREFIT GWPM* or FWPM* or F-RM* or F-PM* * denotes "Assembly Cat. No." Ex db Ex eb Ex ta IECEx TSA 14.0018		

Approved for issue on behalf of the IECEx
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

22nd September 2023

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:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





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Certificate No.: **IECEX TSA 14.0018**

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Date of issue: 2023-09-22

Issue No: 1

Manufacturer: **CMI Electrical Products**
Unit F3, 3 - 29 Birnie Avenue
Lidcombe 2141
Australia

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

[IEC 60079-31:2008](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: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 Report:

[AU/TSA/ExTR14.0027/00](#)

Quality Assessment Report:

[AU/TSA/QAR11.0009/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CMI Surefit FWPM Series cable glands, for armoured and cross-braided cables, and GWPM Series cable glands, for non-armoured cables, are suitable for the passage of circular cables into Ex d, Ex e or Ex t enclosures having threaded entries. An elastomeric sealing ring (grommet) is used in each gland series to facilitate sealing between the cable and gland body. Entry threads are metric complying with ISO 965-1 and ISO 965-3, with pitch of 1.5 mm or 2.0 mm and tolerance quality 6g. The cable glands are manufactured from nickel plated brass. The GWPM Series are also available in stainless steel.

The CMI Surefit F-PM Series blanking plugs and F-RM Series reducers are manufactured from nickel plated brass or stainless steel. Blanking plugs are provided with metric threads and have either hexagonal or octagonal heads. Reducers are provided with metric (external) to metric (internal) threads and have hexagonal or octagonal heads.

Ingress protection of IP66/IP68 (7.0 m for 1.0 h) is maintained when the cable glands, blanking plugs and reducers are installed in accordance with the manufacturer's instructions. A nylon sealing washer, supplied by the manufacturer, is required for IPX8 ingress protection.

The complete range of CMI Surefit cable glands, blanking plugs and reducers are detailed in the Schedule in the attached Annex.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variations Permitted by Issue 1:

Applicant and Manufacturer address has been relocated to Unit F3, 3 - 29 Birnie Avenue, Lidcombe NSW 2141 Australia, previously 18-20 Railway Road, Meadowbank NSW 2114 Australia.

Annex:

[Annexe_IECEx TSA 14.0018-1_1.pdf](#)



IECEx Certificate of Conformity Annexe

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Equipment description continue

Schedule:

The range of equipment covered by this certificate is specified in the following tables.

FWPM Series cable glands

Assembly Catalogue Number	Entry Thread Size (mm)	Back Nut Torque (Nm)	Permitted Cable Outside Diameter Range (mm)	
			Minimum	Maximum
FWPMO	M20 X 1.5	30	9.0	11.9
FWPM1	M20 X 1.5	30	11.5	13.5
FWPM1A	M20 X 1.5	30	13.5	17.2
FWPM1B-25	M25 X 1.5	40	17.0	19.6
FWPM2	M25 X 1.5	40	19.5	22.1
FWPM2A	M25 X 1.5	40	22.0	26.2
FWPM2B-32	M32 X 1.5	50	26.0	28.7
FWPM3	M32 X 1.5	50	28.5	31.2
FWPM3A	M32 X 1.5	50	31.0	35.2
FWPM4	M40 X 1.5	80	35.0	38.5
FWPM4A	M40 X 1.5	60	38.5	41.7
FWPM5	M50 X 1.5	100	41.5	46.7
FWPM5A	M50 X 1.5	100	46.5	51.3
FWPM5B	M50 X 1.5	100	51.0	55.4
FWPM6	M63 X 1.5	100	55.0	60.2
FWPM6A	M63 X 1.5	130	60.0	64.1
FWPM6B	M63 X 1.5	130	64.0	68.2

GWPM Series cable glands

Assembly Catalogue Number		Entry Thread Size (mm)	Back Nut Torque (Nm)	Permitted Cable Outside Diameter Range (mm)	
Standard Version	Extended Tail Version			Minimum	Maximum
GWPMO	GWPMEXO	M20 X 1.5	40	3.0	7.1
GWPM1	GWPMEX1	M20 X 1.5	40	6.5	9.5
GWPM1A	GWPMEX1A	M20 X 1.5	40	9.0	11.9
GWPM1BSS*	GWPMEX1BSS*	M20 X 1.5	40	11.5	14.3
GWPM1B-25	GWPMEX1B-25	M25 X 1.5	50	11.5	14.3
GWPM2	GWPMEX2	M25 X 1.5	50	13.5	17.5
GWPM2ASS*	GWPMEX2ASS*	M25 X 1.5	50	17.0	20.1

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Annexe

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Assembly Catalogue Number		Entry Thread Size (mm)	Back Nut Torque (Nm)	Permitted Cable Outside Diameter Range (mm)	
Standard Version	Extended Tail Version			Minimum	Maximum
GWPM2A-32	GWPMEX2A-32	M32 X1.5	65	17.0	20.1
GWPM3	GWPMEX3	M32 X1.5	65	19.5	23.8
GWPM3A	GWPMEX3A	M32 X1.5	70	22.5	27.0
GWPM4	GWPMEX4	M40 X 1.5	80	26.0	29.4
GWPM4A	GWPMEX4A	M40 X 1.5	100	28.5	32.5
GWPM5	GWPMEX5	M50 X 1.5	100	31.0	36.5
GWPM5A	GWPMEX5A	M50 X 1.5	120	35.0	40.5
GWPM5B	GWPMEX5B	M50 X 1.5	120	39.5	43.8
GWPM6	GWPMEX6	M63 X 1.5	120	42.5	48.4
GWPM6A	GWPMEX6A	M63 X 1.5	150	47.0	52.4
GWPM6B	GWPMEX6B	M63 X 1.5	150	51.0	56.0
GWPM7A	GWPMEX7A	M75X 1.5	150	55.0	59.3
GWPM7B	GWPMEX7B	M75X 1.5	150	58.0	62.6
GWPM7C	GWPMEX7C	M75X 1.5	150	61.0	65.9
GWPM8A	GWPMEX8A	M85 X 2.0	170	64.0	69.1
GWPM8B	GWPMEX8B	M85 X 2.0	170	67.5	72.3
GWPM8C	GWPMEX8C	M85 X 2.0	170	69.5	75.5
GWPM8D	GWPMEX8D	M85 X 2.0	170	74.0	78.6
GWPM9A	GWPMEX9A	M95 X 2.0	190	77.0	81.8
GWPM9B	GWPMEX9B	M95 X 2.0	190	80.0	85.0
GWPM9C	GWPMEX9C	M95 X 2.0	220	83.0	88.2

Notes: 1) * stainless steel version only (not available in nickel plated brass).

2) Add "SS" to catalogue no. for stainless steel version (eg GWPM3ASS).

F-RM Series reducers

Assembly Catalogue Number		Entry Thread Size (mm)	
Nickel Plated Brass	Stainless Steel	External	Internal
F-RM2016	F-RM2016SS	M20 X 1.5	M16 X 1.5
F-RM2516	F-RM2516SS	M25 X 1.5	M16 X 1.5
F-RM2520	F-RM2520SS	M25 X 1.5	M20 X 1.5
F-RM3216	F-RM3216SS	M32 X 1.5	M16 X 1.5
F-RM3220	F-RM3220SS	M32 X 1.5	M20 X 1.5

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Assembly Catalogue Number		Entry Thread Size (mm)	
Nickel Plated Brass	Stainless Steel	External	Internal
F-RM3225	F-RM3225SS	M32 X 1.5	M25 X 1.5
F-RM4016	F-RM4016SS	M40 X 1.5	M16 X 1.5
F-RM4020	F-RM4020SS	M40 X 1.5	M20 X 1.5
F-RM4025	F-RM4025SS	M40 X 1.5	M25 X 1.5
F-RM4032	F-RM4032SS	M40 X 1.5	M32 X 1.5
F-RM5016	F-RM5016SS	M50 X 1.5	M16 X 1.5
F-RM5020	F-RM5020SS	M50 X 1.5	M20 X 1.5
F-RM5025	F-RM5025SS	M50 X 1.5	M25 X 1.5
F-RM5032	F-RM5032SS	M50 X 1.5	M32 X 1.5
F-RM5040	F-RM5040SS	M50 X 1.5	M40 X 1.5
F-RM6316	F-RM6316SS	M63 X 1.5	M16 X 1.5
F-RM6320	F-RM6320SS	M63 X 1.5	M20 X 1.5
F-RM6325	F-RM6325SS	M63 X 1.5	M25 X 1.5
F-RM6332	F-RM6332SS	M63 X 1.5	M32 X 1.5
F-RM6340	F-RM6340SS	M63 X 1.5	M40 X 1.5
F-RM6350	F-RM6350SS	M63 X 1.5	M50 X 1.5
F-RM7516	F-RM7516SS	M75 X 1.5	M16 X 1.5
F-RM7520	F-RM7520SS	M75 X 1.5	M20 X 1.5
F-RM7525	F-RM7525SS	M75 X 1.5	M25 X 1.5
F-RM7532	F-RM7532SS	M75 X 1.5	M32 X 1.5
F-RM7540	F-RM7540SS	M75 X 1.5	M40 X 1.5
F-RM7550	F-RM7550SS	M75 X 1.5	M50 X 1.5
F-RM7563	F-RM7563SS	M75 X 1.5	M63 X 1.5
F-RM8516	F-RM8516SS	M85 X 2.0	M16 X 1.5
F-RM8520	F-RM8520SS	M85 X 2.0	M20 X 1.5
F-RM8525	F-RM8525SS	M85 X 2.0	M25 X 1.5
F-RM8532	F-RM8532SS	M85 X 2.0	M32 X 1.5
F-RM8540	F-RM8540SS	M85 X 2.0	M40 X 1.5
F-RM8550	F-RM8550SS	M85 X 2.0	M50 X 1.5
F-RM8563	F-RM8563SS	M85 X 2.0	M63 X 1.5
F-RM8575	F-RM8575SS	M85 X 2.0	M75 X 1.5
F-RM9516	F-RM9516SS	M95 X 2.0	M16 X 1.5
F-RM9520	F-RM9520SS	M95 X 2.0	M20 X 1.5

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Assembly Catalogue Number		Entry Thread Size (mm)	
Nickel Plated Brass	Stainless Steel	External	Internal
F-RM9525	F-RM9525SS	M95 X 2.0	M25 X 1.5
F-RM9532	F-RM9532SS	M95 X 2.0	M32 X 1.5
F-RM9540	F-RM9540SS	M95 X 2.0	M40 X 1.5
F-RM9550	F-RM9550SS	M95 X 2.0	M50 X 1.5
F-RM9563	F-RM9563SS	M95 X 2.0	M63 X 1.5
F-RM9575	F-RM9575SS	M95 X 2.0	M75 X 1.5
F-RM9585	F-RM9585SS	M95 X 2.0	M85 X 2.0
F-RM11016	F-RM11016SS	M110 X 2.0	M16 X 1.5
F-RM11020	F-RM11020SS	M110 X 2.0	M20 X 1.5
F-RM11025	F-RM11025SS	M110 X 2.0	M25 X 1.5
F-RM11032	F-RM11032SS	M110 X 2.0	M32 X 1.5
F-RM11040	F-RM11040SS	M110 X 2.0	M40 X 1.5
F-RM11050	F-RM11050SS	M110 X 2.0	M50 X 1.5
F-RM11063	F-RM11063SS	M110 X 2.0	M63 X 1.5
F-RM11075	F-RM11075SS	M110 X 2.0	M75 X 1.5
F-RM11085	F-RM11085SS	M110 X 2.0	M85 X 2.0
F-RM11095	F-RM11095SS	M110 X 2.0	M95 X 2.0

F-PM Series blanking plugs

Assembly Catalogue Number		Entry Thread Size (mm)	Torque (Nm)
Nickel Plated Brass	Stainless Steel		
F-PM16	F-PM16SS	M16 X 1.5	40
F-PM20	F-PM20SS	M20 X 1.5	40
F-PM25	F-PM25SS	M25 X 1.5	55
F-PM32	F-PM32SS	M32 X 1.5	65
F-PM40	F-PM40SS	M40 X 1.5	80
F-PM50	F-PM50SS	M50 X 1.5	100
F-PM63	F-PM63SS	M63 X 1.5	115
F-PM75	F-PM75SS	M75 X 1.5	140
F-PM85	F-PM85SS	M85 X 2.0	170
F-PM95	F-PM95SS	M95 X 2.0	190
F-PM110	F-PM110SS	M110 X 2.0	220

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Drawing list pertaining to Issue 1 of this Certificate:

Document / Drawing Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
F-PM	1	Blanking Plug Assembly	Original	2014-11-04
F-RM	1	Reducer Assembly	Original	2014-11-04
FWPM	1	FWPM Gland Assembly	D	2014-11-04
GWPM	1	GWPM Gland Assembly	Original	2014-11-04

Note: An * is included before the title of documents that are new or revised.

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