



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 ITA 13.0005X** Page 1 of 4 [Certificate history:](#)
[Issue 0 \(2013-08-02\)](#)

Status: **Current** Issue No: 1

Date of Issue: 2020-04-21

Applicant: **CCG Cable Terminations (Pty) Ltd**
33 – 37 Forge Road, Spartan Industrial Area
Kempton Park, 1619
South Africa

Equipment: **Series of plugs, adaptors, reducers, unions and couplers**

Optional accessory:

Type of Protection: **Ex d, Ex e, Ex t**

Marking: Ex d I/IIC Mb Gb, Ex e I/IIC Mb Gb, Ex t III C Db
IP65/66/67/68 (2m cont.) (as applicable)
See Description and Marking details.

Approved for issue on behalf of the IECEx
Certification Body:

Ajay Maira

Position:

Certification Authority

Signature:
(for printed version)

Ajay Maira

Date:

2020-04-21

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:

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



TESTING & CERTIFICATION



IECEX Certificate of Conformity

Certificate No.: **IECEX ITA 13.0005X** Page 2 of 4

Date of issue: 2020-04-21 Issue No: 1

Manufacturer: **CCG Cable Terminations (Pty) Ltd**
33 – 37 Forge Road, Spartan Industrial Area
Kempton Park, 1619
South Africa

Additional
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 60079-1:2007-04 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

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

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/ITA/ExTR13.0008/00](#)

Quality Assessment Report:

[ZA/ICS/QAR14.0001/05](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX ITA 13.0005X**

Page 3 of 4

Date of issue: 2020-04-21

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Ex range of Ex Blanking Elements, Threaded couplings, Threaded Unions, Threaded adaptors and Reducers are suitable for inserting certified glands into enclosures having threaded entries, as appropriate for the type of protection. The equipment is manufactured from brass (nickel plated), stainless steel, mild steel or bronze.

See attached annex for more details.

The equipment is marked with the certification information by means of stamping or laser etching.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Please refer to attached annex.



IECEX Certificate of Conformity

Certificate No.: **IECEX ITA 13.0005X**

Page 4 of 4

Date of issue: 2020-04-21

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Please refer to attached Annex.

Annex:

[IECEX ITA 13.0005X-1 - Certificate Annex final.pdf](#)

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.: 1

Description:

Nomenclature for adaptors, reducers, unions and couplers:

CCG AGZZZGYYE (Adaptors)
CCG RGZZZGYYE (Reducers)
CCG UGYYYGYYE (Union)
CCG CGZZZGZZE (Coupler)

A: ADAPTOR
R: REDUCER
U: UNION
C: COUPLER
G: M – METRIC
N – NPT
B – BSP
BSPT – BSPT
P – PG
G – EUROPE G (PARALLEL)
GK – GK (TAPER)
R – R (PARALLEL)
RK – RK (TAPER)
PF – JAPAN PF (PARALLEL)
K – K mpy (TAPER)
ZZZ - MALE THREAD SIZE
YYY - FEMALE THREAD SIZE
E - Ex COMPONENT
(Example :- RM020M016E)

Nomenclature for threaded blanking elements:

CCG PFGZZZE

P: PLUG (Blanking element)
F: D – DOME HEAD or H – Hex Head or S – Stopper plug
G: M – METRIC
N – NPT
B – BSP
BSPT – BSPT
P – PG
G – EUROPE G (PARALLEL)

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

GK – GK (TAPER)
R – R (PARALLEL)
RK – RK (TAPER)
PF – JAPAN PF (PARALLEL)
K – K mpy (TAPER)
ZZZ THREAD SIZE
E - Ex COMPONENT

For metric thread the pitch is:

- M75 and smaller has 1.5mm pitch.
- M80 and larger has 2mm pitch.

Note: NPT and BSP designations in the tables below may be replaced with the applicable alternate ISO pipe thread designations as in the marking above.

Threaded Adaptors and Reducers:

The range of threaded adaptors is suitable for inserting certified glands into enclosures having threaded entries, as appropriate for the type of protection. The equipment is manufactured from brass (nickel plated), stainless steel, mild steel or bronze. A non-metallic washer may be utilised on all non-tapered threads to ensure an IP65/66/67/68(2m cont.) rating. The parallel threaded and NPT units will maintain an IP65 rating with no washer fitted.

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Metric to Metric:

Female \ Male	M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
M16	A	A	A								
M20	R	A	A	A							
M25	R	R	A	A	A						
M32	R	R	R	A	A	A					
M40	R	R	R	R	A	A	A				
M50	R	R	R	R	R	A	A	A			
M63	R	R	R	R	R	R	A	A	A		
M75	R	R	R	R	R	R	R	A	A	A	
M80	R	R	R	R	R	R	R	R	A	A	A
M90	R	R	R	R	R	R	R	R	R	A	A
M100	R	R	R	R	R	R	R	R	R	R	A

A = Adaptor, R = Reducer

Metric to BSP/NPT:

Female \ Male	1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP	3" BSP	3 1/2" BSP	4" BSP
	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	3 1/2" NPT	4" NPT
M16	A	A								
M20	A/R'	A	A							
M25	R	A/R'	A	A						
M32	R	R	A/R'	A	A					
M40	R	R	R	A/R'	A	A				
M50	R	R	R	R	A/R'	A	A			
M63	R	R	R	R	R	A/R'	A	A		
M75	R	R	R	R	R	R	A/R'	A	A	
M80	R	R	R	R	R	R	R	A/R'	A	A
M90	R	R	R	R	R	R	R	R	A/R'	A
M100	R	R	R	R	R	R	R	R	R	A

A = Adaptor, R = Reducer, R' = Metric to NPT reducers only

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

BSP/NPT to Metric:

Female Male		M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
		1/2" BSP	1/2" NPT	R	A	A	A					
3/4" BSP	3/4" NPT	R	R	A	A	A						
1" BSP	1" NPT	R	R	R	A	A	A					
1 1/4" BSP	1 1/4" NPT	R	R	R	R	A	A	A				
1 1/2" BSP	1 1/2" NPT	R	R	R	R	R	A	A	A			
2" BSP	2" NPT	R	R	R	R	R	R	A	A	A		
2 1/2" BSP	2 1/2" NPT	R	R	R	R	R	R	R	A	A	A	
3" BSP	3" NPT	R	R	R	R	R	R	R	R	A	A	A
3 1/2" BSP	3 1/2" NPT	R	R	R	R	R	R	R	R	R	A	A
4" BSP	4" NPT	R	R	R	R	R	R	R	R	R	R	A

A = Adaptor, R = Reducer

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

NPT to BSP, NPT to NPT, BSP to NPT and BSP to BSP:

Male \ Female		1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP	3" BSP	3 1/2" BSP	4" BSP
		1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	3 1/2" NPT	4" NPT
1/2" BSP	1/2" NPT	A	A	A							
3/4" BSP	3/4" NPT	R	A	A	A						
1" BSP	1" NPT	R	R	A	A	A					
1 1/4" BSP	1 1/4" NPT	R	R	R	A	A	A				
1 1/2" BSP	1 1/2" NPT	R	R	R	R	A	A	A			
2" BSP	2" NPT	R	R	R	R	R	A	A	A		
2 1/2" BSP	2 1/2" NPT	R	R	R	R	R	R	A	A	A	
3" BSP	3" NPT	R	R	R	R	R	R	R	A	A	A
3 1/2" BSP	3 1/2" NPT	R	R	R	R	R	R	R	R	A	A
4" BSP	4" NPT	R	R	R	R	R	R	R	R	R	A

A = Adaptor, R = Reducer

Threaded Couplings / Unions:

The range of threaded couplings / Unions is suitable as intermediate parts or for matching different types of threads by introducing an intermediate part, as appropriate for the type of protection. The equipment is manufactured from brass (nickel plated), stainless steel, mild steel or bronze. A non-metallic washer may be utilised on the coupling / union, except for NPT threads, to ensure an IP65/66/67/68(2m cont.) rating. Parallel threaded units without the washer and NPT thread maintains an IP65 rating.

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Couplers – Male to Male – Metric to Metric

Male to Male	M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
M16	X										
M20	X	X									
M25	X	X	X								
M32		X	X	X							
M40		X	X	X	X						
M50			X	X	X	X					
M63				X	X	X	X				
M75					X	X	X	X			
M80						X	X	X	X		
M90							X	X	X	X	
M100								X	X	X	X

Unions – Female to Female – Metric to Metric

Female to Female	M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
M16	X										
M20	X	X									
M25	X	X	X								
M32	X	X	X	X							
M40	X	X	X	X	X						
M50		X	X	X	X	X					
M63			X	X	X	X	X				
M75				X	X	X	X	X			
M80					X	X	X	X	X		
M90						X	X	X	X	X	
M100							X	X	X	X	X

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Couplers – Male to Male - BSP and NPT combinations

		Male									
		1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP	3" BSP	3 1/2" BSP	4" BSP
Male		1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	3 1/2" NPT	4" NPT
1/2" BSP	1/2" NPT	X									
3/4" BSP	3/4" NPT	X	X								
1" BSP	1" NPT	X	X	X							
1 1/4" BSP	1 1/4" NPT		X	X	X						
1 1/2" BSP	1 1/2" NPT		X	X	X	X					
2" BSP	2" NPT			X	X	X	X				
2 1/2" BSP	2 1/2" NPT				X	X	X	X			
3" BSP	3" NPT					X	X	X	X		
3 1/2" BSP	3 1/2" NPT						X	X	X	X	
4" BSP	4" NPT							X	X	X	X

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Unions – Female to Female – BSP and NPT combinations:

Female		1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP	3" BSP	3 1/2" BSP	4" BSP
		1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	3 1/2" NPT	4" NPT
1/2" BSP	1/2" NPT	X									
3/4" BSP	3/4" NPT	X	X								
1" BSP	1" NPT	X	X	X							
1 1/4" BSP	1 1/4" NPT	X	X	X	X						
1 1/2" BSP	1 1/2" NPT	X	X	X	X	X					
2" BSP	2" NPT		X	X	X	X	X				
2 1/2" BSP	2 1/2" NPT			X	X	X	X	X			
3" BSP	3" NPT				X	X	X	X	X		
3 1/2" BSP	3 1/2" NPT					X	X	X	X	X	
4" BSP	4" NPT						X	X	X	X	X

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Couplers – Male to Male - BSP/NPT and Metric combinations

Male		Male										
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
1/2" BSP	1/2" NPT	X	X	X								
3/4" BSP	3/4" NPT	X	X	X	X	X						
1" BSP	1" NPT	X	X	X	X	X	X					
1 1/4" BSP	1 1/4" NPT		X	X	X	X	X	X				
1 1/2" BSP	1 1/2" NPT		X	X	X	X	X	X	X			
2" BSP	2" NPT			X	X	X	X	X	X	X		
2 1/2" BSP	2 1/2" NPT				X	X	X	X	X	X	X	
3" BSP	3" NPT					X	X	X	X	X	X	X
3 1/2" BSP	3 1/2" NPT						X	X	X	X	X	X
4" BSP	4" NPT							X	X	X	X	X

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Unions – Female to Female – Metric and BSP/NPT combinations

Female	1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP	3" BSP	3 1/2" BSP	4" BSP
	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	3 1/2" NPT	4" NPT
M16	X	X	X	X						
M20	X	X	X	X	X					
M25	X	X	X	X	X	X				
M32	X	X	X	X	X	X	X			
M40	X	X	X	X	X	X	X	X		
M50		X	X	X	X	X	X	X	X	
M63			X	X	X	X	X	X	X	X
M75				X	X	X	X	X	X	X
M80					X	X	X	X	X	X
M90						X	X	X	X	X
M100							X	X	X	X

Threaded Blanking Elements:

The range of threaded blanking elements is suitable for blanking off threaded entries in enclosures, as appropriate for the type of protection. The equipment is manufactured from brass (nickel plated), stainless steel, mild steel or bronze. A non-metallic washer may be utilised on all non-tapered threads to ensure an IP65/66/67/68(2m cont.) rating. The parallel threaded and NPT units will maintain an IP65 rating with no washer fitted.

IECEx Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEx ITA 13.0005X

Issue No.:

1

The range of threaded blanking elements covered by this approval is as follows:

PLUGS HEX / DOME HEAD and STOPPER PLUG - METRIC	PLUGS HEX / DOME HEAD and STOPPER PLUG - NPT	PLUGS HEX / DOME HEAD and STOPPER PLUG - BSP
M16	1/2" NPT	1/2" BSP
M20	3/4" NPT	3/4" BSP
M25	1" NPT	1" BSP
M32	1 1/4" NPT	1 1/4" BSP
M40	1 1/2" NPT	1 1/2" BSP
M50	2" NPT	2" BSP
M63	2 1/2" NPT	2 1/2" BSP
M75	3" NPT	3" BSP
M80	3 1/2" NPT	3 1/2" BSP
M90	4" NPT	4" BSP
M100	---	---

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

- An IP rating of IP66/67/68 is maintained for units with parallel threads when used the supplied washer and for units with tapered thread seal is conducted as indicated in IEC60079-14. Alternatively an IP 65 rating is applicable.
- A service temperature range of -20°C to 95°C is applicable if the washers are utilised to maintain the IP rating (IP65/66/67/68(2m)).
- A blanking element may not be installed on an adaptor.
- It is a condition of certification that a copy of the Certificate and instructions must be made available for the use of this equipment.

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:

IECEX ITA 13.0005X

Issue No.:

1

Variations permitted by Issue 1 of this certificate:

This issue of the certificate addresses the change of the QAR reference to ZA/ICS/QAR14.0001/05.

Specific Conditions of Use pertaining to Issue 1 of this certificate:

No changes to the earlier conditions of this certificate.

Drawings Associated with the Issue 1 of this Certificate:

No drawings associated to this issue of the certificate.