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Certification Record

Listing#: **E115594**
Report #: NRTLC 15708A
Original Certification Date: April 20, 2023
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This Certification is issued to:
CCG Cable Terminations (Pty) Ltd.
33-37 Forge Road
Spartan Industrial Area
Kempton Park, 1619
South Africa

Products covered by listing:
A2EX, A2F, A2F-R, A2EX~QS (VX), A2FX, A2FX-R, UNITEx-D, UNITEx-E, UNITEx-F, UNITEx-F QS (VX), UNITEx QS (VX), TMC, TMCX, Ex CORROSION GUARD, and Ex CG~QS (VX)

Applicable standard(s):
CSA C22.2 No. 18.3-12, CSA C22.2 No. 174:2018, CSA C22.2 no. 213:2017, CSA C22.2 No. 60079-0:2019, CSA C22.2 No. 60079-1:2016, CSA C22.2 No. 60079-7:2016, CSA C22.2 No. 60079-15:2018, CSA C22.2 No. 60079-31:2015
UL 514B-6th ed., UL 2225-4th ed., UL 121201 9th ed., UL 60079-0-7th ed., UL 60079-1-7th ed., UL 60079-7-5th ed., UL 60079-15-5th ed., UL 60079-31-2nd ed.

For product marking and installation requirements, please refer to the applicable sections within this certificate.

A2 Range of Cable Glands

Product Name	Model Nomenclature	Product Name	Model Nomenclature
A2EX (Metric)	0536AA	A2F-R (NPT)	0590AA-BBBNPT
A2EX (NPT)	0536AA-BBBNPT	A2FX (Metric)	0542AA
A2F (Metric)	0541AA	A2FX (NPT)	0542AA-BBBNPT
A2F (NPT)	0541AA-BBBNPT	A2FX-R (Metric)	0577AA
A2F-R (Metric)	0590AA	A2FX-R (NPT)	0577AA-BBBNPT
A2EX~QS (VX)	0564AA	A2EX~QS (VX)	0564AA-BBBNPT

Where:

0536 =	A2EX	0542 =	A2FX	0577 =	A2FX-R
0541 =	A2F	0590 =	A2F-R	0564 =	A2EX~QS (VX)

AA = GLAND SIZE

			BBB = NPT THREADFORM		
00-16	=	00-16s			
00	=	00-20ss	012	=	1/2"
-0-16	=	0-16s			
-0		0-20s	034	=	3/4"
01	=	1-20	001	=	1"
22	=	2s-25s	114	=	1-1/4"
02	=	2-25	112	=	1-1/2"
33	=	3s-32s	002	=	2"
03	=	3-32	212	=	2-1/2"
44	=	4s-40s	003	=	3"
04	=	4-40	312	=	3-1/2"
55	=	5s-50s	004	=	4"
05	=	5-50			
66	=	6s-63s			
06	=	6-63			
77	=	7s-75s			
07	=	7-75			
08	=	8-80			
99	=	9s-90s			
09	=	9-90			
10	=	10-100			
11	=	11-110			
13	=	13-130			

Markings:

Class I Division 2 Gr ABCD
Class II Division 2 Gr FG
Class III Division 2
Ex db IIC Gb
Class I Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 21 AEx ta IIIC Da / Ex ta IIIC Da
Class I Zone 2 AEx nR IIC Gc / Ex nR IIC Gc
IP66/67/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets). Type 4X

Temperature Range:

The cable glands shall only be used where the temperature, at the point of entry, is between:

- Quickstop (QS) or Vortex resin (VX), when used with all seals & gaskets/skid rings: (-50°C and +95°C)
- EPDM seals & HDPE gaskets/skid rings: (-60°C and +95°C)
- EPDM seals & Nylon gaskets/skid rings:
- (-60°C and +100°C)
- Silicone seals & PTFE gaskets/skid rings: (-60°C and +160°C)

Ex Corrosion Guard Range of Cable Glands

Product Name	**Model Nomenclature**
Ex CORROSION GUARD (Metric)	0547AA
Ex CG~QS (VX) (Metric)	0561AA

Where:
0547 = Ex CORROSION GUARD
0561 = Ex CG~QS (VX)
AA = GLAND SIZE

00-16	=	00-16ss
00	=	00-20ss
-0-16	=	0-16s
-0	=	0-20s
01	=	1-20
22	=	2s-25s
02	=	2-25
33	=	3s-32s
03	=	3-32
44	=	4s-40s
04	=	4-40
55	=	5s-50s
05	=	5-50
66	=	6s-63s
06	=	6-63
77	=	7s-75s
07	=	7-75
08	=	8-80
99	=	9s-90s
09	=	9-90
10	=	10-100

Markings:

Class I Division 2 Gr ABCD
Class II Division 2 Gr FG
Class III Division 2
Ex db IIC Gb
Class I Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 21 AEx ta IIIC Da / Ex ta IIIC Da
Class I Zone 2 AEx nR IIC Gc / Ex nR IIC Gc
IP66/67/68 – Metric Threads (Gaskets). Type 4X

Temperature Range:

The cable glands shall only be used where the temperature, at the point of entry, is between:

- Quickstop (QS) or Vortex resin (VX), when used with all seals & gaskets/skid rings: (-50°C and +95°C)
- EPDM seals & HDPE gaskets/skid rings: (-60°C and +95°C)
- EPDM seals & Nylon gaskets/skid rings: (-60°C and +100°C)
- Silicone seals & PTFE gaskets/skid rings: (-60°C and +160°C)
- The corrosion guard is not an essential part of the explosion protection. The corrosion guard material has a Relative Temperature Index (RTI) of 120°C, UL 746C f1, <1Gohm.

TMC, TMCX

Product Name	**Model Nomenclature**
TMC	TMCAAABCC
TMCX	TMCXAAABCC

Where:

TMC =	TMC GLANDS	
TMCX =	TMCX GLANDS	
AAA =	THREADFORM (See below)	
B =	MATERIAL	
	A =	ALUMIMIUM
	N =	NICKEL PLATED BRASS
	S =	STAINLESS STEEL
CC =	GLAND SIZE (See below)	

AAA = THREADFORM			CC = GLAND SIZE		
M20	=	M20 x 1.5	00	= SIZE	00
M25	=	M25 x 1.5	-0	= SIZE	0
M32	=	M32 x 1.5	01	= SIZE	1
M40	=	M40 x 1.5	02	= SIZE	2
M50	=	M50 x 1.5	03	= SIZE	3
M63	=	M63 x 1.5	04	= SIZE	4
M75	=	M75 x 1.5	05	= SIZE	5
M80	=	M80 x 2.0	06	= SIZE	6
M90	=	M90 x 2.0	07	= SIZE	7
M100	=	M100 x 2.0	08	= SIZE	8
M110	=	M110 x 2.0	09	= SIZE	9
050	=	1/2"	10	= SIZE	10
075	=	3/4"	11	= SIZE	11
100	=	1"			
125	=	1-1/4"			
150	=	1-1/2"			
200	=	2"			
250	=	2-1/2"			
300	=	3"			
350	=	3-1/2"			
400	=	4"			

Markings:

Class I Division 1 Gr ABCD (TMCX only)
Class I Division 2 Gr ABCD
Class II Division 1 Gr EFG (TMCX only)
Class II Division 2 Gr FG
Class III Division 1 (TMCX only)
Class III Division 2
Class I Zone 1 AEx db IIC Gb / Ex db IIC Gb (TMCX only)
Class I Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 20 AEx ta IIIC Da / Ex ta IIIC Da
Class I Zone 2 AEx nR IIC Gc / Ex nR IIC Gc
IP66/67/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets). Type 4X

Temperature Range:

The cable glands shall only be used where the temperature, at the point of entry, is between:

TMC

- EPDM seals & HDPE gaskets/skid rings:
  (-60°C and +95°C)
- EPDM seals & Nylon gaskets/skid rings:
  (-60°C and +100°C)
- Silicone seals & PTFE gaskets/skid rings:
  (-60°C and +160°C)

TMCX

- When used with all seals & gaskets/skid rings:
  (-50°C and +95°C)

UNITEx Range of Cable Glands

Product Name	Model Nomenclature
UNITEx-D (Metric)	0554AA
UNITEx-D (NPT)	0554AA-BBBNPT
UNITEx-E (Metric)	0591AA
UNITEx-E (NPT)	0591AA-BBBNPT
UNITEx-F (Metric)	0510AA
UNITEx-F (NPT)	0510AA-BBBNPT
UNITEx-F QS (VX) (Metric)	0587AA
UNITEx-F QS (VX) (NPT)	0587AA-BBBNPT
UNITEx QS (VX) (Metric)	0559AA
UNITEx QS (VX) (NPT)	0559AA-BBBNPT

Where:

0554 = UNITEx-D
0591 = UNITEx-E
0510 = UNITEx-F
0587 = UNITEx-F QS (VX)
0559 = UNITEx QS (VX)

AA = GLAND SIZE

00-16	= 00-16ss		
00	= 00-20ss	012	= 1/2"
-0-16	= 0-16s		
-0	= 0-20s	034	= 3/4"
01	= 1-20	001	= 1"
22	= 2s-25s	114	= 1-1/4"
02	= 2-25	112	= 1-1/2"
33	= 3s-32s	002	= 2"
03	= 3-32	212	= 2-1/2"
44	= 4s-40s	003	= 3"
04	= 4-40	312	= 3-1/2"
55	= 5s-50s	004	= 4"
05	= 5-50		
66	= 6s-63s		
06	= 6-63		
77	= 7s-75s		
07	= 7-75		
08	= 8-80		
99	= 9s-90s		
09	= 9-90		
10	= 10-100		

BBB = NPT THREADFORM

Markings:

Class I Division 1 Gr ABCD (UNITEx-F QS (VX) only)
Class I Division 2 Gr ABCD
Class II Division 1 Gr EFG (UNITEx-F QS (VX) only)
Class II Division 2 Gr FG
Class III Division 1 (UNITEx-F QS (VX) only)
Class III Division 2
Class I Zone 1 AEx db IIC Gb (UNITEx-F QS (VX) only)
Ex db IIC Gb (Not UNITEx-E)
Class I Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 21 AEx ta IIIC Da / Ex ta IIIC Da
Class I Zone 2 AEx nR IIC Gc / Ex nR IIC Gc
IP66/67/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets). Type 4X

Temperature Range:

The cable glands shall only be used where the temperature, at the point of entry, is between:

- Quickstop or Vortex resin, when used with all seals & gaskets/skid rings:
  (-20°C and +95°C) UNITEx-F QS (VX) – Div 1 / AEx db
  (-50°C and +95°C) UNITEx QS (VX) or UNITEx-F QS (VX) other than Div 1 / AEX db.
- EPDM seals & HDPE gaskets/skid rings:
  (-60°C and +95°C)
- EPDM seals & Nylon gaskets/skid rings:
  (-60°C and +100°C)
- Silicone seals & PTFE gaskets/skid rings:
  (-60°C and +160°C)

Installation requirements

A2EX, A2F, A2F-R, A2EX~QS, A2FX, A2FX-R

i. The cable glands, sizes M20, ¾" NPT and smaller, shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.

ii. The cable glands, when supplied with suffix '-FC', shall only be used with an approved UL 514B conduit fitting.

UNITEx-D, UNITEx-E, UNITEx-F, UNITEx-F QS (VX), UNITEx QS (VX)

i. Cable glands, sizes M20, 3/4" NPT and smaller, shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.

ii. The cable glands, when supplied with suffix '-FC', shall only be used with an approved UL 514B conduit fitting.

iii. The UNITEx-F QS (VX) cable glands are not suitable for use with Acetic Acid or Methanol.

Ex CORROSION GUARD, and Ex CG~QS

i. Cable glands, sizes M20, 3/4" NPT and smaller, shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.

TMC, TMCX

i. The TMCX cable glands are not suitable for use with Acetic Acid or Methanol.

ii. The cable glands, when supplied with suffix '-FC', shall only be used with an approved UL 514B conduit fitting.

Notes.

1. All units are rated IP65 for any sealing arrangement. Units with metric 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.

2. The A2 and UNITEx ranges of cable glands can optionally be fitted with an outer seal nut that has an additional female thread at its rear end to allow the connection of a flexible conduit to it. '-FC' is added to the model nomenclature to denote this variant.

Eurofins Electrical & Electronic Testing NA, Inc.

H.M. Amos
Certification Officer
Eurofins E&E CML Limited

Eurofins MET Labs Safety Laboratory

All changes proposed in the previously identified product that affects the above information must be submitted to Eurofins MET Labs for evaluation prior to implementation to assure continued MET Certification status.

The covered product(s) shall be subject to follow-up inspections to ensure that the Certified product(s) are identical to the product sample evaluated by Eurofins MET Labs and that all manufacturer's responsibilities are being fulfilled as specified in the Manufacturer's Responsibility section of the Certification report. The applicant named above has been authorized by Eurofins MET Labs to represent the product(s) listed in this record as "MET Certified" and to mark this/these product(s) according to the terms and conditions of the MET Applicant Contract, MET Listing Reports, and the applicable marking agreements. Only the product(s) bearing the MET Mark and under a follow-up service are considered to be included in the MET Certification program. This certification has been granted under a System 3 program as defined in ISO/IEC 17067.

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