




## Type Examination Certificate **CML 16ATEX4002X Issue 6**

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx~(QS)(VX), UNITEx-F, UNITEx--F~(QS)(VX), A2F-FHC (QS)(VX)**
- 3 Manufacturer **CCG Cable Terminations PTY LTD**
- 4 Address **33-37 Forge Road,  
Spartan Ind Area,  
Kempton Park, 1619,  
South Africa**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:  
EN IEC 60079-0:2018                      EN 60079-15:2010
- 10 The equipment shall be marked with the following:  
 II 3 G  
Ex nR IIC Gc  
IP66/67/68 (2m), IP65 (as applicable)



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## 11 Description

Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F, A2F-R, A2FX, A2FX-R, A2F-H, A2F-H-R, A2FX-H, A2FX-H-R, A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>~(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>-F~(QS)(VX), A2F-FHC (QS)(VX)

### Ex Protection & Sizes

#### Armoured Cable Gland ranges

Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex nR IIC Gc	IP 66/68	IP 65 NPT
<b>E1EX (VS)(QS)(VX)</b>	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
<b>E1EX U (VS)(QS)(VX)</b>	00-10 (metric) & NPT	16 to 100	1/2"to 4"	SG	YES	YES	YES
<b>E1EX Lead Seal</b>	00-13 (metric) 00-11 (NPT)	20 to 130	1/2"to 4"	SG	YES	YES	YES
<b>D1EX (QS)(VX)</b>	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
<b>EXCG (VS)(QS)(VX)</b>	00-10 (metric)	16 to 100	N/A	CG SG	YES	YES	N/A
<b>FLP (QS)(VX)</b>	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
<b>ARMORTEX (QS)(VX)</b>	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES



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Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex nR IIC Gc	IP 66/68	IP 65 NPT
EXCG – Lead Seal	00-13 (Metric)	20 to 130	N/A	SG	YES	YES	N/A
UNITEx-D (VS)	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	YES
UNITEx-E	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	YES
UNITEx ~-(QS)(VX)	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	YES
UNITEx-F	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	YES
UNITEx – F~-(QS)(VX)	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	YES

#### Non-Armoured Gland Ranges

Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex nR IIC Gc	IP 66/68	IP 65 NPT
FLP TR (QS)(VX)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
FLP Hose (QS)(VX)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
Posi Grip (QS)(VX)	00-11 (Metric)	20 to 110	N/A	SG	YES	YES	N/A
A2F	00-13 (metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES



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Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex nR IIC Gc	IP 66/68	IP 65 NPT
A2F-R	00-13 (metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
A2FX	00-13 (metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
A2FX-R	00-13 (Metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
A2F-H	00-7 (metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
A2F-H-R	00-7 (metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
A2FX-H	00-7 (metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
A2FX-H-R	00-7 (metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES
A2EX (VS)(LS) (QS)(VX)	00-13 (Metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
A2EX-FHC (VS)(LS) (QS)(VX)	00-13 (Metric) 0-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES
A2F-FHC (QS)(VX)	00-10 (metric & NPT)00-13 (Metric & NPT)	20 to 10016 to 130	1/2"to 4" 1/2"to 4"	SGSG	YESYES	YESYES	YESYES



- ## Not applicable to NPT thread. Applicable to all parallel thread (eg Metric and BSP parallel). Optional for Ex d application without IP rating.
- QS The QS in the table above, refers to the Quickstop version of the cable glands. This utilises a clear potting compound to achieve a hard setting seal inside the gland. The sealing compound is transparent and accommodates inspection.
- VX The VX in the table above, refers to the Vortex version of the cable glands. This utilises a coloured potting compound to achieve a hard setting seal inside the gland. There is a transparent elastomeric seal at the end of the compound enclosure to accommodate inspection.

The QS or VX compounds may be utilised as follows:

- A seal within the front part of the gland, with no elastomeric seal clamping on it
- A seal within the front part of the gland, with the elastomeric seal clamping on it, therefore acting as the bedding for the cable
- A seal within the front part of the gland applied around the conductors within a metal sleeve. An elastomeric seal clamps onto the metal sleeve. The gland may only be used with the metal sleeve (when supplied with the gland and marked QS or VX) since the internal gland construction only accommodates the large diameter of the metal sleeve for seal clamping

Note: Cables/cable bedding as above does not form part of the approval of glands.

### Combination glands

Armoured glands type E1EX, E1EX-U and UNITEx-D are made to accept two different cable inner bedding and outer sheath diameter size ranges for each gland body size by the fitting of alternative seals and matching components. The smaller cable diameter version is known as the 's' size. E.g. 2s is a size 2 gland with smaller bore seals. Combination glands are allowed (known as 'L' versions, e.g. 2L) where the components for an 's' size are used for the cable bedding and components for the standard size are used for the cable sheath.

### RE-FLEx Sealing Cord

To achieve IP66/67/68, an alternative to a standard sealing washer is to use RE-FLEx sealing cord. This is intended as a retrofit solution and must be installed according to the fitting instructions supplied with it.

### Materials

Description	Materials
<b>Metallic Parts</b>	BRASS (Nickel-plated) CZ121, Stainless steel 316, BRONZE PB2, MILD STEEL (EN8), Aluminium 6063
<b>Corrosion guard</b>	30% GLASS PBT KP213G40, Nylon (Not an essential part of the explosion protection)
<b>Skid Ring</b>	BRASS (Nickel-plated) CZ121, STAINLESS STEEL 316, BRONZE PB2, MILD STEEL (EN8), Aluminium 6063



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<b>Description</b>	<b>Materials</b>
	HDPE D7255/HL (-100°C to 120°C) or PTFE CCG-PTFE-001(-270°C to 260°C) Nylon (-65°C to 120°C)
<b>Sealing Compound</b>	Clear Quick Stop Ex Resin S50/EPA (-50°C to 120°C) Coloured Vortex Resin S50/EPA/Y (-50°C to 120°C)
<b>Outer/Inner Seal</b>	EPDM (64 Shore) (-60°C to 120°C) or Silicone CCG G/65-1R (-70°C to 180°C) or Silicone CCG G/65-1C (-70°C to 180°C)
<b>Posi Grip</b>	30% Glass filled Polyester CCG PBT SPESIN KP213G30 (-30°C to 125°C) RTI= 120°C, Nylon (-65°C to 120°C) **
<b>Sealing Gasket</b>	HDPE D7255/HL (-100°C to 120°C) or PTFE CCG-PTFE-001(-270°C to 260°C) or Nylon (-65°C to 120°C) or RE-FLEx PTFE cord (-268°C to +260°C)

\*\* The plastic material for the Posigrip is external to the metallic parts. The Plastic Nipple Nut is a part that is fitted over the metallic Inner with its only function to clamp against the Sealing gasket and to assist in tightening/dismantling the Inner. The Outer nut plastic is moulded over the metallic part which maintains the mechanical strength of the gland.

#### Gland range construction

Constructional parts	Inner	Inner Seal	Body	Outer Seal	Skid Ring	Outer nut	Cone	Cone Ring	Sealing Compound**	Corrosion Guard Body	Inner Lock Nut	Lock Nut	O-Ring	Lead Seal	Quick Stop or Vortex with Sleeve Assembly	Compression Nut	Nipple Seal/Nut	Posi Insert	Coupling/Outer Coupling
<b>Gland Ref</b>																			
<b>E1EX (VS) (QS)(VX) ###</b>	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	N/A	N/A	N/A
<b>E1EX U (VS) (QS)(VX) ###</b>	E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	YES	N/A	N/A	Optional	YES	N/A	YES	YES	N/A	N/A	N/A
<b>E1EX Lead Seal</b>	E1EX-LS	E1EX	EXCG	E1EX	E1EX	E1EX	D1EX	E1EX	N/A	N/A	N/A	Optional	YES	YES	N/A	N/A	N/A	N/A	N/A



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Constructional parts	Gland Ref							
Inner	A2EX	A2EX	FLP	FLP	E1EX-LS	FLP	FLP	FLP
Inner Seal	E1EX	E1EX	FLP	FLP	E1EX	FLP	FLP	FLP
Body	N/A	E1EX	N/A	ARMORTEX	E1EX	N/A	N/A	N/A
Outer Seal	N/A	CG	N/A	BRTX	E1EX	BRTX	FLP-TR	N/A
Skid Ring	N/A	CG	N/A	BRTX	E1EX	BRTX	FLP-TR	N/A
Outer nut	D1EX	CG	FLP	ARMORTEX	CG	ARMORTEX	FLP-TR	FLP-HOSE
Cone	D1EX	D1EX	FLP	FLP	E1EX	FLP	FLP-TR	N/A
Cone Ring	E1EX	E1EX	FLP	FLP	E1EX	FLP	N/A	N/A
Sealing Compound**	YES	YES	YES	N/A	N/A	N/A	YES	YES
Corrosion Guard Body	N/A	CG	N/A	N/A	CG	N/A	N/A	N/A
Inner Lock Nut	N/A	N/A	N/A	FLP	N/A	FLP	FLPTR	FLP
Lock Nut	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
O-Ring	YES	YES	Optional	YES	YES	YES	YES	YES
Lead Seal	N/A	N/A	N/A	N/A	YES	N/A	N/A	N/A
Quick Stop or Vortex with Sleeve Assembly	YES	YES	YES	YES	N/A	YES	YES	YES
Compression Nut	N/A	N/A	YES	N/A	N/A	N/A	N/A	N/A
Nipple Seal/Nut	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Posi Insert	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coupling/Outer Coupling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



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Constructional parts	Inner	Inner Seal	Body	Outer Seal	Skid Ring	Outer nut	Cone	Cone Ring	Sealing Compound**	Corrosion Guard Body	Inner Lock Nut	Lock Nut	O-Ring	Lead Seal	Quick Stop or Vortex with Sleeve Assembly	Compression Nut	Nipple Seal/Nut	Posi Insert	Coupling/Outer Coupling
<b>Gland Ref</b>																			
<b>Posi Grip (QS)(VX)</b>	POSI GRIP	E1EX	N/A	A2	A2	POSI GRIP	A2EX	N/A	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	POSIGRIP	POSIGRIP	N/A
<b>A2F</b>	A2F	A2	N/A	N/A	A2	A2F	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A2F-R</b>	A2FX-R	A2	N/A	A2	A2	A2FX-R	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A2FX</b>	A2F	A2	A2FX	A2	A2	A2F	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A2FX-R</b>	A2FX-R	A2	A2FX-R	A2	A2	A2FX-R	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A2F-H</b>	A2F	A2	N/A	N/A	A2	A2FH	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A2F-H-R</b>	A2F-R	A2	N/A	N/A	A2	A2FH-R	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A	N/A





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Constructional parts	Gland Ref									
Inner	A2F	A2F-R	A2EX	A2EX	UNITEx-D	UNITEx-QS	A2F	A2F-R	A2EX	A2EX
Inner Seal	A2	A2	E1EX	E1EX	E1EX	E1EX-QS	A2	A2	E1EX	E1EX
Body	A2FX	A2FX-R	N/A	N/A	UNITEx-D	UNITEx-QS	A2FX	A2FX-R	N/A	N/A
Outer Seal	A2	A2	A2	A2	E1EX-U	E1EX-U	A2	A2	A2	A2
Skid Ring	A2	A2	A2	A2	E1EX-U	E1EX-U	A2	A2	A2	A2
Outer nut	A2FH	A2FH-R	A2EX	A2EX	E1EX-U / UNITEx-D	E1EX-U / UNITEx-D	A2FH	A2FH-R	A2EX	A2EX
Cone	N/A	N/A	A2EX	A2EX	UNITEx-D	UNITEx-QS	N/A	N/A	N/A	N/A
Cone Ring	N/A	N/A	N/A	N/A	E1EX	E1EX	N/A	N/A	N/A	N/A
Sealing Compound**	N/A	N/A	YES	YES	N/A	N/A	N/A	N/A	YES	YES
Corrosion Guard Body	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inner Lock Nut	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lock Nut	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
O-Ring	N/A	N/A	YES	YES	YES	YES	N/A	N/A	N/A	N/A
Lead Seal	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Quick Stop or Vortex with Sleeve Assembly	N/A	N/A	YES	YES	N/A	N/A	N/A	N/A	YES	YES
Compression Nut	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nipple Seal/Nut	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Posi Insert	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coupling/Outer Coupling	N/A	N/A	N/A	N/A	N/A	N/A	A2EX-FHC	N/A	N/A	N/A



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Constructional parts		Gland Ref		UNITEX ~(QS)(VX)		UNITEX-F		UNITEX - F (QS)(VX)		A2F-FHC		A2F- FHC~ (QS)(VX)	
Inner				UNITEX-QS		UNITEX-F-QS		UNITEX-F-QS		A2F		A2EX / A2F-FHC-QS	
Inner Seal				E1EX-QS		UNITEX-F-QS		UNITEX-F-QS		A2		E1EX-QS	
Body				UNITEX-QS		UNITEX-QS		UNITEX-QS		A2F-FHC-QS		A2F-FHC-QS	
Outer Seal				E1EX-U		E1EX-U		E1EX-U		N/A		N/A	
Skid Ring				E1EX-U		E1EX-U		E1EX-U		A2EX		A2EX	
Outer nut				E1EX-U / UNITEX-D		E1EX-U / UNITEX-D		E1EX-U / UNITEX-D		N/A		N/A	
Cone				UNITEX-QS		UNITEX-E		UNITEX-E		A2F-FHC-QS		A2F-FHC-QS	
Cone Ring				E1EX		E1EX		E1EX		N/A		N/A	
Sealing Compound**				N/A		N/A		N/A		N/A		YES	
Corrosion Guard Body				YES		N/A		YES		N/A		N/A	
Inner Lock Nut				N/A		N/A		N/A		N/A		N/A	
Lock Nut				Optional		Optional		Optional		N/A		N/A	
O-Ring				YES		YES		YES		N/A		N/A	
Lead Seal				N/A		N/A		N/A		N/A		N/A	
Quick Stop or Vortex with Sleeve Assembly				YES		N/A		YES		N/A		YES	
Compression Nut				N/A		N/A		N/A		N/A		N/A	
Nipple Seal/Nut				N/A		N/A		N/A		N/A		N/A	
Posi Insert				N/A		N/A		N/A		N/A		N/A	
Coupling/Outer Coupling				N/A		N/A		N/A		A2EX-FHC		A2EX-FHC	



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- \*\* Use of Metal sleeve and clear sealing compound as indicated below (Quickstop- QS on Marking) or metal sleeve and coloured sealing compound (Vortex – VX on marking).
- (CG) Parts manufactured from Non-metallic or specifically adapted for fitment to corrosion guard
- ## Not applicable to NPT thread. Applicable to all parallel thread (e.g. Metric and BSP parallel). Optional for Ex nR application without IP rating.
- ### A thin copper/brass disc may be utilised in the (VS) gland variant between the inner seal and the cone for earth continuity to a metallic cable screen (e.g. variable speed drive cable or a lead sheathed cable). The sealing arrangement between the inner seal and the potted sleeve is not affected. Note that a standard cable gland type can be converted to a (VS) variant by retrofitting the thin copper / brass disc. The product marking does not need to be changed when the copper / brass disc is retrofitted.

#### **Variation 1**

This variation introduced the following modifications:

- i. To update the certificate reference to the 2014/34/EU Directive.
- ii. To update EN 60079-0:2012+A11:2013 to IEC 60079-0:2017, Ed 7 (Latest technical knowledge)
- iii. To include additional models to the range of glands.

#### **Variation 2**

This variation introduced the following modifications:

- i. To allow the diameter over cores to increase to 12.5mm and number of cores to increase to 13 for the Size 1 gland arrangements.
- ii. To allow modifications to the Size 7 corrosion guard.

#### **Variation 3**

This variation introduced the following modifications:

- i. To permit an alternative EPDM seal material.
- ii. To permit a nylon alternative material for sealing gaskets and skid washers.
- iii. To update the product description temperature range for the alternative EPDM sealing gaskets and nylon sealing gaskets. The Conditions of Use are also updated to include the alternative temperatures allowable.
- iv. To permit the option to manufacture products with intermediate metric thread sizes.
- v. To increase the E1EX-D outer seal nut size.

#### **Variation 4**

This variation introduced the following modifications:

- i. To allow the product name changes as follows:  
UNITEx becomes UNITEx-E  
E1EX-D becomes UNITEx-D



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- ii. To permit the Vortex resin barrier arrangement as an alternative to the Quickstop resin system.
- iii. References to E1EX-D~QS are changed to UNITEx~QS and the E1EX-D~QS name is removed from the certificate. (The two glands are physically identical).
- iv. The A2F-CG range is removed from the certificate.
- v. The description and relevant conditions are updated to include the alternative resin barrier arrangement and to reference the model name changes above.
- vi. To update the IEC 60079-0:2017 standard to IEC EN 60079-0:2018.

### **Variation 5**

This variation introduced the following modifications:

- i. Addition of aluminium as a material option for the cable glands.
- ii. Addition of nylon as a material option for the Corrosion Guard and Posi Grip glands.
- iii. Addition of an option for a deluge seal to be included on the E1EX range
- iv. Allowance of combination glands for armoured cable.
- v. Allowance of "VS" option cable glands to include lead sheathed cables
- vi. Allowance of "VS" option cable glands to have the earth contact disc retrofitted
- vii. Introduction of the A2F-FHC and A2F-FHC~QS (VX) glands
- viii. Change of name for the A2F-H and A2F-H-R double seal glands to A2FX-H and A2FX-H-R respectively
- ix. Introduction of new A2F-H and A2F-H-R single seal gland models
- x. Introduction of an alternate thread sealing method
- xi. Transfer of ATEX Certificate from CML UK to CML BV.

## **12 Certificate history and evaluation reports**

<b>Issue</b>	<b>Date</b>	<b>Associated report</b>	<b>Notes</b>
0	02 Mar 2016	R979A/00	Issue of Prime Certificate
1	02 Jun 2016	R979A/01	Re-issued to correct model referencing and drawing typographical errors. The description was modified accordingly.
2	22 Mar 2018	R11591A/00	Introduction of Variation 1
3	20 Nov 2018	R12096A/00	Introduction of Variation 2
4	13 May 2019	R12476A/00	Introduction of Variation 3
5	21 Aug 2019	R12725A/00	Introduction of Variation 4
6	17 Jun 2020	R13191A/00	Introduction of Variation 5

Note: Drawings that describe the equipment or component are listed in the Annex.



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### 13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Cable glands with intermediate metric entry thread sizes shall be constructed by enlarging the entry thread size of the standard size product immediately below the intermediate thread size. The minimum entry wall thickness, allowable number of cores, cable size range and constructional parts utilised (other than the entry thread component) shall not differ from that of the standard size used.

### 14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. When the QuickStop or Vortex glands are supplied with the metal sleeve and cementing, they shall be fitted with the metal sleeve and cementing since the internal gland construction only accommodates the large diameter of the metal sleeve for seal clamping.
- ii. The cable glands shall only be used where the temperature, at the point of entry, is between:
  - Posigrip: -30% glass filled polyester (-20°C and +95°C) or nylon (-60°C to 100°C)
  - Quickstop or Vortex resin, when used with EPDM seals & HDPE gaskets/skid rings: (-50°C and +95°C)
  - Quickstop or Vortex resin, when used with EPDM seals & Nylon gaskets/skid rings: (-50°C and +100°C)
  - EPDM seals & HDPE gaskets/skid rings: (-60°C and +95°C)
  - EPDM seals & Nylon gaskets/skid rings: (-60°C and +100°C)
  - Quickstop or Vortex resin, when used with Silicone seals & PTFE gaskets/skid rings: (-50°C and +120°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.
- iii. Only the compounds as supplied by the manufacturer may be used in the glands.
- iv. Cable glands for unarmoured cable and approved only for group IIC/IIIC shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.
- v. The appropriate ingress protection level or restricted breathing characteristics must be achieved and maintained at the interface of the gland with the enclosure.
- vi. When the RE-FLEx sealing method is used, the gland installer shall refer to the manufacturer's instructions.



**CML 16ATEX4002X  
Issue 6**

### **Conditions for Specific Glands:**

The following conditions relate to safe installation and/or use of the equipment.

- i. A2EX-FHC, A2F-FHC and VRTX range of glands:
  - The cable glands shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented
- ii. Armortex, E1EX-U and UNITEx ranges of glands:
  - The Armortex, E1EX-U and UNITEx ranges of glands have been tested for braided cable for group II and III only, when braided cable is fitted it shall only be used on fixed installations where the cable is clamped or stress applied to the cable in the gland is prevented.
- iii. Posi grip range of glands:
  - The gland shall only be installed / dismantled using the tool provided by CCG

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx-(QS)(VX), UNITEx-F, UNITEx--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

The following documents describe the equipment or component defined in this certificate:

## Issue 0

Drawing No	Sheets	Rev	Approved date	Title
0503-C	1 of 1	-	01 Mar 2016	No. "X" BW Cone
0515 –Mark ATEX	1 of 1	-	02 Mar 2016	No. "X" STOPEX GLAND MARKING
0515- ASSY	1 of 1	-	02 Mar 2016	No. "X" STOPEX GLAND ASSEMBLY
0515 - C	1 of 1	1	02 Mar 2016	No. "X" STOPEX CONE
0515-I	1 of 1	-	02 Mar 2016	No. "X" STOPEX INNER METRIC AND NPT
0516-CG-ASSY	1 of 1	-	02 Mar 2016	No. "X" STOPEX – CG GLAND ASSEMBLY
0519 –ASSY	1 of 1	1	02 Mar 2016	No. "X" D1EX Ex de CABLE GLANDS
0519 – O	1 of 1	1	02 Mar 2016	No. "X" D1EX OUTER
0521 – Mark ATEX	1 of 1	-	02 Mar 2016	No. "X" FLP, ARMORTEX MARKING
0521 – Assy	1 of 1	-	02 Mar 2016	No. "X" FLP GLAND ASSEMBLY
0521-C	1 of 1	-	02 Mar 2016	No. "X" FLP CONE
0521-CR	1 of 1	-	02 Mar 2016	No. "X" FLP CONE RING
521-I	1 of 1	-	02 Mar 2016	No. "X" FLP, FLP-TR, FLP HOSE & ARMORTEX INNER
0521-IS	1 of 1	-	02 Mar 2016	No. "X" FLP, FLP TR, FLP HOSE, ARMORTEX INNER SEAL
0521-O	1 of 1	-	02 Mar 2016	No. "X" FLP OUTER
0522- ASSY	1 of 1	-	02 Mar 2016	No "X" ARMORTEX GLAND ASSEMBLY
0522 – B	1 of 1	-	02 Mar 2016	No. "X" ARMOURTEX BODY
0522-ON	1 of 1	-	02 Mar 2016	No. "X" ARMOURTEX OUTER NUT
0523 – ASSY -SL	1 of 1	1	02 Mar 2016	TYPICAL QUICK STOP WITH SLEEVE ASSEMBLY
0523 - ASSY	1 of 1	1	02 Mar 2016	No. "X" E1EX Ex de CABLE GLANDS
0523 - B	1 of 1	2	02 Mar 2016	No. "X" E1EX, EXCG, STOPEX & STOPEX CG BODY
0523 - C	1 of 1	1	02 Mar 2016	No. "X" E1EX, D1EX &EXCG CONE
0523 - CR	1 of 1	1	02 Mar 2016	No. "X" E1EX, D1EX, EXCG, STOPEX & STOPEX CG CONE RING

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx-(QS)(VX), UNITEx-F, UNITEx--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0523 - I	1 of 1	1	02 Mar 2016	No. "X" E1EX, A"EX, D1EX, A2EX FHC & EXCG INNER
0523 – IS	1 of 1	1	02 Mar 2016	No. "X" E1EX, A2EX, EXCG,A"EX FHC & D1EX INNER/DISPLACEMNET SEAL
0523 – MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" EX GLAND MARKING
0523 – NPT - I	1 of 1	1	02 Mar 2016	No. "X" E1EX, A2 EX, D1EX, A2EX FHC & EXCG INNER
0523 – ON	1 of 1	1	02 Mar 2016	No. "X" E1EX OUTER NUT
0523 - OS	1 of 1	1	02 Mar 2016	No. "X" E1EX OUTER SEAL
0523 – SR	1 of 1	1	02 Mar 2016	No. "X" E1EX SKID RING
0523 – LS ASSY	1 of 1	1	02 Mar 2016	No. "X" E1EX LEAD SEAL ASSY
0523 – LS – I	1 of 1	-	02 Mar 2016	No. "X" E1EX LEAD SEAL INNER
0523 – NPT – I	1 of 1	-	02 Mar 2016	No. "X" E1EX – LEAD SEAL – NPT – INNER
0523-LS MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" E1EX – LS AND – U GLAND MARKING
0523-LS	1 of 1	-	02 Mar 2016	No. "X" E1EX LEAD SEAL
0521-I -LN	1 of 1	-	02 Mar 2016	No. "X" FLP, FLP TR, FLP HOSE, ARMOURTEX INNER LOCK NUT
0524 - ASSY	1 of 1	1	02 Mar 2016	No. "X" FLP TR ASSEMBLY
0524-C - OR	1 of 1	-	02 Mar 2016	No. "X" FLP TR CONE OR
0524-GS	1 of 1	-	02 Mar 2016	No. "X" FLP TR GRIPPER SEAL
0524 -O	1 of 1	-	02 Mar 2016	No. "X" FLP TR OUTER
0524 - SR	1 of 1	-	02 Mar 2016	No. "X" FLP TR SKID RING
0525-ON	1 of 1	-	02 Mar 2016	No. "X" BARRIER A OUTER NUT
0525-OS	1 of 1	-	02 Mar 2016	No. "X" BARRIER A OUTER SEAL
0525-SR	1 of 1	-	02 Mar 2016	No. "X" BARRIER A SKID RING
0527 – HT	1 of 1	-	02 Mar 2016	No. "X" FLP HOSE TAIL
0527 – HOSE ASSY	1 of 1	1	02 Mar 2016	FLP HOSE GLAND ASSEMBLY
0531 – ASS - SWA	1 of 1	1	02 Mar 2016	No. "X"VRTX – SWA GLAND ASSEMBLY
0531 - VRTX	1 of 1	1	02 Mar 2016	No. "X" VRTX GLAND ASSEMBLY
0531 - CN	1 of 1	1	02 Mar 2016	No. "X" VRTX COMPRESSION NUT
0531-B - SWA	1 of 1	-	02 Mar 2016	No. "X" VRTX BODY SWA
0531 -B	1 of 1	-	02 Mar 2016	No. "X" VRTX BODY



# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx-(QS)(VX), UNITEx-F, UNITEx--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0531-CN -SWA	1 of 1	-	02 Mar 2016	No. "X" VRTX SWA- COMPRESSION NUT
0531-I - SWA	1 of 1	-	02 Mar 2016	No. "X" VRTX INNER
0531 -I	1 of 1	1	02 Mar 2016	No. "X" VRTX INNER
0531- MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" VRTX GLAND MARKING
0531-ON	1 of 1	-	02 Mar 2016	No. "X" OUTER NUT
0531-OS	1 of 1	-	02 Mar 2016	No. "X" OUTER SEAL
0531-SG	1 of 1	-	02 Mar 2016	No. "X" SEALING GASKET
0531-SR	1 of 1	-	02 Mar 2016	No. "X" SKID RING
0531 – VRTX SPRING	1 of 1	-	02 Mar 2016	No. "X" VRTX SPRING
0537-ASSY	1 of 1	2	02 Mar 2016	No. "X" A2EX ASSEMBLY
0537 - ASSY	1 of 1	1	02 Mar 2016	No. "X" A2EX FHC GLAND ASSEMBLY
0537 - C	1 of 1	3	02 Mar 2016	No. "X" A2EX & POSI GRIP CONE
0537 - CO	1 of 1	-	02 Mar 2016	No. "X" A2EX FHC COUPLING
0537 - GS	1 of 1	5	02 Mar 2016	No. "X" A2 GRIPPER SEAL
0537 – MARK ATEX	1 of 1	-	02 Mar 2016	A2EX – FHC GLAND MARKING
0537 – O rev 1	1 of 1	6	02 Mar 2016	No. "X" A2EX OUTER
0537 – O	1 of 1	-	02 Mar 2016	No. "X" A2EX- FHC OUTER
0537 - SR	1 of 1	5	02 Mar 2016	No. "X" A2 SKID RING
0537 –OC	1 of 1	-	02 Mar 2016	No. "X" A2EX FHC OUTER COUPLING
0541 – I	1 of 1	1	02 Mar 2016	No. "X" A2F INNER
0541 - O	1 of 1	2	02 Mar 2016	No. "X" A2F OUTER
0541 – MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" A2F GLAND MARKING
0541 - ASSY	1 of 1	2	02 Mar 2016	No. "X" A2F ASSEMBLY
0542 - ASSY	1 of 1	2	02 Mar 2016	No. "X" A2FX GLAND
0542-O	1 of 1	2	02 Mar 2016	No. "X" A2FX OUTER
0543-ASSY	1 of 1	1	02 Mar 2016	No. "X" A2F CORROSION GUARD
0543 – CG – O	1 of 1	1	02 Mar 2016	No. "M" A2F CORROSION GUARD OUTER
0545 - ASSY	1 of 1	1	02 Mar 2016	No. "X" POSI GRIP ASEMBLY
0545 -NS	1 of 1	-	02 Mar 2016	No. "X" POSI GRIP NIPPLE SEAL
0545 – O - ASSY	1 of 1	-	02 Mar 2016	No. "X" POSI GRIP OUTER ASSEMBLY

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>-(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0545 I -ASSY	1 of 1	-	02 Mar 2016	No. "X" POSI GRIP INNER ASSY
0545 – MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" POSI GRIP MARKING
0547 – ASSY -	1 of 1	1	02 Mar 2016	No. "X" Ex de CORROSION GUARD
0547 - CGSG	1 of 1	-	02 Mar 2016	No. "X" EXCG SEALING GASKET
0547-OS	1 of 1	1	02 Mar 2016	No. "X" EXCG OUTER SEAL
0523 - SR	1 of 1	-	02 Mar 2016	No. "X" EXCG SKID RING
0547 –CG – LS - ASSY	1 of 1	-	02 Mar 2016	No. "X" EXCG LEAD SEAL ASSY
0547 – BODY - ASSY	1 of 1	1	02 Mar 2016	No. "X" EXCG BODY COMPONENTS
0549 - ASSY	1 of 1	1	02 Mar 2016	No. "X" A2FH GLAND
0549 - HT	1 of 1	1	02 Mar 2016	No. "X2 A2FH OUTER HOSE TAIL
0550 - ASSY	1 of 1	1	02 Mar 2016	No. "X" STOPEX – F
0550-C	1 of 1	1	02 Mar 2016	No. "X" STOPEX F- CONE
0550 - O	1 of 1	-	02 Mar 2016	No. "X" STOPEX F-OUTER
0571 - B	1 of 1	2	02 Mar 2016	No. "X" E1EX UNIVERSAL BODY
0571 - C	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL CONE
0571 -CR	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL CONE RING
0571 - I	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL INNER
0571 – IS	1 of 1	-	02 Mar 2016	No. "X" E1EX – U INNER SEAL
0571 – NPT – I	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL INNER
0571 – ASSY	1 of 1	1	02 Mar 2016	No. "X" E1EX UNIVERSAL GLANDS ASSY
0571 – ON	1 of 1	1	02 Mar 2016	No. "X" E1EX UNIVERSAL OUTER NUT
0571-OS	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL OUTER SEAL
0571-SR	1 of 1	-	02 Mar 2016	No. "X" E1EX UNIVERSAL SKID RING
0577 -B	1 of 1	1	02 Mar 2016	No. "X" A2FX- R BODY
0577-I	1 of 1	1	02 Mar 2016	No. "X" A2FX-R INNER
0577-MARK ATEX	1 of 1	-	02 Mar 2016	No. "X" A2FX-R MARKING
0577-O-R	1 of 1	1	02 Mar 2016	No. "X" A2FX – R OUTER
0577 – ASSY	1 of 1	2	02 Mar 2016	No. "X" A2FX – R ASSY
8055 - SG	1 of 1	-	02 Mar 2016	No. "X" CCG SEALING GASKET
0570-B	1 of 1	-	02 Mar 2016	No. "X" CXE BODY
0570-C	1 of 1	-	02 Mar 2016	No. "X" CXE CONE

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>-(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0570-I	1 of 1	-	02 Mar 2016	No. "X" CXE INNER
0570-ASSY	1 of 1	-	02 Mar 2016	No. "X" CXE GLANDS ASSY
055100-16-B – 055713-B	1 of 1	-	02 Mar 2016	No. "X" CWe BODY
055700-16-C – 055713-C	1 of 1	-	02 Mar 2016	No. "X" CWe CONE
055700-16-I – 055713-I	1 of 1	-	02 Mar 2016	No. "X" CWe INNER
055700-16 – 055713	1 of 1	-	02 Mar 2016	CWe CAPTIVE CONE GLAND

## Issue 1

Drawing No	Sheets	Rev	Approved date	Title
0545 - ASSY	1 of 1	2	02 Jun 2016	No. "X" POSI GRIP ASEMBLY
0536-ASSY	1 of 1	3	02 Jun 2016	No. "X" A2EX ASSEMBLY
0536 - C	1 of 1	4	02 Jun 2016	No. "X" A2EX & POSI GRIP CONE
0536 - GS	1 of 1	6	02 Jun 2016	No. "X" A2 GRIPPER SEAL
0536 – O	1 of 1	7	02 Jun 2016	No. "X" A2EX OUTER
0536 - SR	1 of 1	6	02 Jun 2016	No. "X" A2 SKID RING

## Issue 2

Drawing No	Sheets	Rev	Approved date	Title
0523 – MARK ATEX&IECE <sub>x</sub>	1 of 1	-	22 Mar 2018	No. "X" EX GLAND MARKING
0523-LS MARK ATEX&IECE <sub>x</sub>	1 of 1	-	22 Mar 2018	No. "X" E1EX – LS AND – U GLAND MARKING
0523 – ASSY	1 of 1	3	22 Mar 2018	No. "X" E1EX Ex de CABLE GLANDS
0523 – ASSY-QS	1 of 1	1	22 Mar 2018	No. "X" E1EX QUICK STOP ASSY
0523 – I	1 of 1	2	22 Mar 2018	No. "X" E1EX, A2EX, D1EX, A2EX FHC & EXCG INNER
0531- MARK ATEX&IECE <sub>x</sub>	1 of 1	-	22 Mar 2018	No. "X" VRTX GLAND MARKING

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx-(QS)(VX), UNITEx-F, UNITEx--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0537-MARK ATEX&IECEEx	1 of 1	-	22 Mar 2018	A2EX-FHC GLAND MARKING
0537 – ASSY	1 of 1	3	22 Mar 2018	No. “X” A2EX FHC GLAND ASSEMBLY
0541 – MARK ATEX&IECEEx	1 of 1	-	22 Mar 2018	No. “X” A2F GLAND MARKING
0541 – I	1 of 1	2	22 Mar 2018	No. “X” A2F INNER
0541 – ASSY	1 of 1	3	22 Mar 2018	No. “X” A2F ASSEMBLY
0545 – MARK ATEX&IECEEx	1 of 1	-	22 Mar 2018	No. “X” POSI GRIP MARKING
0577-MARK ATEX&IECEEx	1 of 1	-	22 Mar 2018	No. “X” A2FX-R MARKING
0577-I-R	1 of 1	2	22 Mar 2018	No. “X” A2FX-R INNER
0577-R- ASSY	1 of 1	3	22 Mar 2018	No. “X” A2FX – R ASSY
0521 - MARK ATEX&IECEEx	1 of 1	-	22 Mar 2018	No. “X” FLP, ARMORTEX MARKING
0519-ASSY	1 of 1	3	22 Mar 2018	No. “X” D1EX Ex de CABLE GLANDS
0521 – ASSY	1 of 1	3	22 Mar 2018	No. “X” FLP GLAND ASSEMBLY
0521-I	1 of 1	2	22 Mar 2018	No. “X” FLP, FLP-TR, FLP HOSE & AMMORTEX INNER
0522- ASSY	1 of 1	3	22 Mar 2018	No “X” ARMORTEX GLAND ASSEMBLY
0524 – ASSY	1 of 1	3	22 Mar 2018	No. “X” FLP TR ASSEMBLY
20/03/2018	1 of 1	3	22 Mar 2018	FLP HOSE ASSY
0536-ASSY	1 of 1	5	22 Mar 2018	No. “X” A2EX ASSEMBLY
0542 – ASSY	1 of 1	3	22 Mar 2018	No. “X” A2FX GLAND
0543-ASSY	1 of 1	2	22 Mar 2018	No. “X” A2F CORROSION GUARD
0547 – ASSY	1 of 1	3	22 Mar 2018	No. “X” Ex de CORROSION GUARD
0549 – ASSY	1 of 1	2	22 Mar 2018	No. “X” A2FH GLAND
0571 – I	1 of 1	1	22 Mar 2018	No. “X” E1EX UNIVERSAL INNER
0571 – ASSY	1 of 1	3	22 Mar 2018	No. “X” E1EX UNIVERSAL GLANDS ASSY
055700-16-055713	1 of 1	1	22 Mar 2018	No. “X” CWe GLAND ASSEMBLY

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>-(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
057000-16-057010	1 of 1	1	22 Mar 2018	No. "X" CXe GLAND ASSEMBLY
057001 – 057004 - B	1 of 1	-	22 Mar 2018	No. "X" CXe BODY
055700-16-I – 055713-I	1 of 1	1	22 Mar 2018	No. "X" CWe / CXe INNER
057000-C-057010-C	1 of 1	1	22 Mar 2018	No. "X" CXe CONE
0557 – MARK	1 of 1	-	22 Mar 2018	CWe / CXe GLAND MARKING
0554-ASSY	1 of 1	-	22 Mar 2018	No "X" E1EX-D GLAND ASSY
0554-MARK	1 of 1	-	22 Mar 2018	No "X" E1EX-D MARKING
0554-I	1 of 1	-	22 Mar 2018	No "X" E1EX-D INNER
0554-C	1 of 1	-	22 Mar 2018	No "X" E1EX-D CONE
0554-B	1 of 1	-	22 Mar 2018	No "X" E1EX-D BODY
0554-ON	1 of 1	-	22 Mar 2018	No "X" E1EX-D OUTER NUT
0555-ASSY	1 of 1	-	22 Mar 2018	No "X" E1EX-D~QS GLAND ASSY
0555-I	1 of 1	-	22 Mar 2018	No "X" E1EX-D~QS INNER
0555-C	1 of 1	-	22 Mar 2018	No "X" E1EX-D~QS CONE
0555-B	1 of 1	-	22 Mar 2018	No "X" E1EX-D~QS BODY
0587-MARK	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F (QS) - MARK
0510-ASSY	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F GLAND ASSY
0587-ASSY	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F~QS GLAND ASSY
0587-I	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F~QS INNER
0587-IS	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F~QS INNER SEAL
0587-C	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F~QS CONE
0587-S	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> -F~QS RESIN SLEEVE
0591 – MARK ATEX&IECEX	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> GLAND MARKINIG
0591-ASSY	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> GLAND ASSY
0559-ASSY	1 of 1	-	22 Mar 2018	No. "X" UNITE <sub>x</sub> ~QS GLAND ASSY
0560-IS	1 of 1	-	22 Mar 2018	No. "X" E1EX~QS INNER SEAL

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx-(QS)(VX), UNITEx-F, UNITEx--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

## Issue 3

Drawing No	Sheets	Rev	Approved date	Title
0523-I	1 of 1	3	20 Nov 2018	No. "X" E1EX, A2EX, D1EX, A2EX FHC & EXCG INNER
0523-B	1 of 1	3	20 Nov 2018	No. "X" E1EX, EXCG, STOPEX & STOPEX CG BODY
0547-BODY-ASSY	1 of 1	2	20 Nov 2018	No "X" EXCG BODY COMPONENTS
0523-ASSY-SL	1 or 1	2	20 Nov 2018	TYPICAL QUICK STOP WITH SLEEVE ASSEMBLY

## Issue 4

Drawing No	Sheets	Rev	Approved date	Title
0524 - ASSY	1 of 1	4	13 May 2019	No. "X" FLP TR ASSEMBLY
0527 – HOSE ASSY	1 of 1	4	13 May 2019	FLP HOSE GLAND ASSEMBLY
0531 – ASS - SWA	1 of 1	2	13 May 2019	No. "X"VRTX – SWA GLAND ASSEMBLY
0531 - VRTX	1 of 1	2	13 May 2019	No. "X" VRTX GLAND ASSEMBLY
0547 –CG – LS - ASSY	1 of 1	1	13 May 2019	No. "X" EXCG LEAD SEAL ASSY
0549 - ASSY	1 of 1	3	13 May 2019	No. "X" A2FH GLAND
0545 - ASSY	1 of 1	3	13 May 2019	No. "X" POSI GRIP ASSEMBLY
0536-ASSY	1 of 1	6	13 May 2019	No. "X" A2EX ASSEMBLY
0523 - ASSY	1 of 1	4	13 May 2019	No. "X" E1EX Ex de CABLE GLANDS
0523 – LS ASSY	1 of 1	3	13 May 2019	No. "X" E1EX LEAD SEAL ASSY
0523 – ASSY-QS	1 of 1	2	13 May 2019	No. "X" E1EX QUICK STOP ASSY
0537 – ASSY	1 of 1	4	13 May 2019	No. "X" A2EX FHC GLAND ASSEMBLY
0541 – ASSY	1 of 1	4	13 May 2019	No. "X" A2F ASSEMBLY
0577-R- ASSY	1 of 1	4	13 May 2019	No. "X" A2FX – R ASSY
0519-ASSY	1 of 1	4	13 May 2019	No. "X" D1EX Ex de CABLE GLANDS
0521 – ASSY	1 of 1	4	13 May 2019	No. "X" FLP GLAND ASSEMBLY
0522- ASSY	1 of 1	4	13 May 2019	No "X" ARMORTEX GLAND ASSEMBLY
0542 – ASSY	1 of 1	4	13 May 2019	No. "X" A2FX GLAND



# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>~(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F~(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0543-ASSY	1 of 1	3	13 May 2019	No. "X" A2F CORROSION GUARD
0547 – ASSY	1 of 1	4	13 May 2019	No. "X" Ex de CORROSION GUARD
0571 – ASSY	1 of 1	4	13 May 2019	No. "X" E1EX UNIVERSAL GLANDS ASSY
055700-16-055713	1 of 1	3	13 May 2019	No. "X" CWe GLAND ASSEMBLY
057000-16-057010	1 of 1	3	13 May 2019	No. "X" CXe GLAND ASSEMBLY
0554-ASSY	1 of 1	2	13 May 2019	No "X" E1EX-D GLAND ASSY
0554-ON	1 of 1	1	13 May 2019	No "X" E1EX-D OUTER NUT
0555-ASSY	1 of 1	2	13 May 2019	No "X" E1EX-D~QS GLAND ASSY
0510-ASSY	1 of 1	2	13 May 2019	No. "X" UNITE <sub>x</sub> -F GLAND ASSY
0587-ASSY	1 of 1	2	13 May 2019	No. "X" UNITE <sub>x</sub> -F~QS GLAND ASSY
0591-ASSY	1 of 1	2	13 May 2019	No. "X" UNITE <sub>x</sub> GLAND ASSY
0559-ASSY	1 of 1	2	13 May 2019	No. "X" UNITE <sub>x</sub> ~QS GLAND ASSY

## Issue 5

Drawing No	Sheets	Rev	Approved date	Title
0523-ASSY-SL	1 of 1	3	21 Aug 2019	TYPICAL QUICK STOP OR VORTEX WITH SLEEVE ASSEMBLY
0554-ASSY	1 of 1	3	21 Aug 2019	No "X" UNITE <sub>x</sub> -D GLAND ASSY
0554-ON	1 of 1	2	21 Aug 2019	No "X" UNITE <sub>x</sub> -D OUTER NUT
0554-B	1 of 1	2	21 Aug 2019	No "X" UNITE <sub>x</sub> -D BODY
0554-C	1 of 1	2	21 Aug 2019	No "X" UNITE <sub>x</sub> -D CONE
0554-I	1 of 1	1	21 Aug 2019	No "X" UNITE <sub>x</sub> -D INNER
0510-ASSY	1 of 1	3	21 Aug 2019	No. "X" UNITE <sub>x</sub> -F GLAND ASSY
0587-ASSY	1 of 1	3	21 Aug 2019	No. "X" UNITE <sub>x</sub> -F~QS GLAND ASSY
0591-ASSY	1 of 1	3	21 Aug 2019	No. "X" UNITE <sub>x</sub> -E GLAND ASSY
0591-MARK ATEX&IECEX	1 of 1	1	21 Aug 2019	No. "X" UNITE <sub>x</sub> GLAND MARKINIG
0559-ASSY	1 of 1	3	21 Aug 2019	No. "X" UNITE <sub>x</sub> ~QS GLAND ASSY

# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>-(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0559-B	1 of 1	-	21 Aug 2019	No. "X" UNITE <sub>x</sub> ~QS BODY
0559-C	1 of 1	-	21 Aug 2019	No. "X" UNITE <sub>x</sub> ~QS CONE
0559-I	1 of 1	-	21 Aug 2019	No. "X" UNITE <sub>x</sub> ~QS INNER
057000-16-057010	1 of 1	3	21 Aug 2019	No. "X" CXe GLAND ASSEMBLY

## Issue 6

Drawing No	Sheets	Rev	Approved date	Title
0441 ASSY	1 of 1	-	11 Jun 2020	No. "X" A2F-FHC GLAND ASSY
0449 ASSY	1 of 1	-	11 Jun 2020	No. "X" A2F-H GLAND
0468 ASSY	1 of 1	-	11 Jun 2020	No. "X" A2F-FHC~QS GLAND ASSY
0468 MARK	1 of 1	-	11 Jun 2020	A2F-FHC(QS) GLAND MARKING
0468-I METRIC	1 of 1	-	11 Jun 2020	A2F-FHC~QS INNER - METRIC
0468-I NPT	1 of 1	-	11 Jun 2020	A2F-FHC~QS INNER - NPT
0468-O	1 of 1	-	11 Jun 2020	A2F-FHC~QS OUTER
0468-S	1 of 1	-	11 Jun 2020	A2F-FHC~QS RESIN SLEEVE
0468-SP	1 of 1	-	11 Jun 2020	A2F-FHC~QS SPACER
0497-H-R ASSY	1 of 1	-	11 Jun 2020	No."X" A2F-H-R GLAND
0510-ASSY	1 of 1	4	11 Jun 2020	No. "X" UNITE <sub>x</sub> -F GLAND ASSY
0519-ASSY	1 of 1	5	11 Jun 2020	No. "X" D1EX Ex de CABLE GLANDS
0523 ASSY	1 of 1	5	11 Jun 2020	No. "X" E1EX Ex de CABLE GLANDS
0523-B	1 of 1	4	11 Jun 2020	No. "X" EXCG BODY
0523-C	1 of 1	2	11 Jun 2020	No. "X" D1EX & EXCG CONE
0523-I	1 of 1	4	11 Jun 2020	No. "X" A2EX, A2EX-FHC, D1EX & EXCG INNER
0523 – NPT - I	1 of 1	2	11 Jun 2020	No. "X" A2EX, D1EX, A2EX FHC & EXCG INNER
0523 D-B	1 of 1	-	11 Jun 2020	No. "X" E1EX BODY
0523 D - C	1 of 1	-	11 Jun 2020	No. "X" E1EX CONE
0523 D - I	1 of 1	-	11 Jun 2020	No. "X" E1EX INNER
0523 D – NPT - I	1 of 1	-	11 Jun 2020	No. "X" E1EX INNER
0523L ASSY	1 of 1	-	11 Jun 2020	No "X" E1EX COMBINATION GLAND ASSY.



# Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITEx-D (VS), UNITEx-E, UNITEx~(QS)(VX), UNITEx-F, UNITEx--F~(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0523-LS ASSY	1 of 1	4	11 Jun 2020	No. "X" E1EX LEAD SEAL ASSY
0531 - ASSY	1 of 1	3	11 Jun 2020	No. "X" VRTX GLAND ASSEMBLY
0531 – ASS - SWA	1 of 1	3	11 Jun 2020	No. "X"VRTX – SWA GLAND ASSEMBLY
0536-ASSY	1 of 1	7	11 Jun 2020	No. "X" A2EX ASSEMBLY
0537 – ASSY	1 of 1	5	11 Jun 2020	No. "X" A2EX FHC GLAND ASSEMBLY
0537 - GS	1 of 1	5	11 Jun 2020	No. "X" A2 GRIPPER SEAL
0537 - SR	1 of 1	5	11 Jun 2020	No. "X" A2 SKID RING
0541 - ASSY	1 of 1	6	11 Jun 2020	No. "X" A2F ASSEMBLY
0541 – MARK ATEX&IECEX	1 of 1	3	11 Jun 2020	No. "X" A2F GLAND MARKING
0541 - I	1 of 1	3	11 Jun 2020	No. "X" A2F INNER
0541 - O	1 of 1	3	11 Jun 2020	No. "X" A2F OUTER
0542 - ASSY	1 of 1	6	11 Jun 2020	No. "X" A2FX GLAND
0542 - O	1 of 1	3	11 Jun 2020	No. "X" A2FX OUTER
0547 - ASSY	1 of 1	5	11 Jun 2020	No. "X" Ex de CORROSION GUARD
0547 –CG – LS - ASSY	1 of 1	2	11 Jun 2020	No. "X" EXCG LEAD SEAL ASSY
0549-ASSY	1 of 1	5	11 Jun 2020	No. "X" A2F-H OUTER HOSE TAIL
0549 - HT	1 of 1	2	11 Jun 2020	No. "X" A2FX OUTER
0554-ASSY	1 of 1	4	11 Jun 2020	No "X" UNITEx-D GLAND ASSY
0554L-ASSY	1 of 1	-	11 Jun 2020	No "X" UNITEx-D COMBINATION GLAND ASSY
055700-16-055713	1 of 1	4	11 Jun 2020	No. "X" CWe GLAND ASSEMBLY
0559-ASSY	1 of 1	4	11 Jun 2020	No. "X" UNITEx~QS GLAND ASSY
057000-16-057010	1 of 1	4	11 Jun 2020	No. "X" CXe GLAND ASSEMBLY
0571 – ASSY	1 of 1	5	11 Jun 2020	No. "X" E1EX UNIVERSAL GLANDS ASSY
0571L – ASSY	1 of 1	-	11 Jun 2020	No. "X" E1EX UNIVERSAL COMBINATION GLAND ASSY
0577 – R - ASSY	1 of 1	6	11 Jun 2020	No. "X" A2FX-R ASSY
0577-I – R - ASSY	1 of 1	4	11 Jun 2020	No. "X" A2FX-R INNER
0577-O-R	1 of 1	3	11 Jun 2020	No. "X" A2FX-R OUTER
0577-B	1 of 1	3	11 Jun 2020	No. "X" A2FX-R BODY

## Certificate Annex



**Certificate Number** CML 16ATEX4002X

**Equipment** Cable Gland Series E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLPHOSE (QS)(VX), POSI GRIP (QS)(VX), A2F (QS)(VX), A2F-R (QS)(VX), A2FX (QS)(VX), , A2FX-R (QS)(VX), A2F-H (QS)(VX), A2F-H-R (QS)(VX), A2FX-H (QS)(VX), A2FX-H-R (QS)(VX)A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX) UNITE<sub>x</sub>-D (VS), UNITE<sub>x</sub>-E, UNITE<sub>x</sub>-(QS)(VX), UNITE<sub>x</sub>-F, UNITE<sub>x</sub>--F-(QS)(VX), A2F-FHC (QS)(VX)

**Manufacturer** CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0577 – MARK ATEX&IECEX	1 of 1	3	11 Jun 2020	No. "X" A2FX-R MARKING
0587-ASSY	1 of 1	4	11 Jun 2020	No. "X" UNITE <sub>x</sub> -F~QS GLAND ASSY
0590-R-ASSY	1 of 1	2	11 Jun 2020	No. "X" A2F-R ASSY
0591-ASSY	1 of 1	4	11 Jun 2020	No. "X" UNITE <sub>x</sub> -E GLAND ASSY
0596-H-R ASSY	1 of 1	1	11 Jun 2020	No. "X" A2FX-H-R GLAND
0596-HT-R	1 of 1	-	11 Jun 2020	No. "X" A2FH-R OUTER HOSE TAIL