

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Cable Gland**

with type designation(s)

**A2EX, A2EX-FHC, A2F, A2FH, A2FX, A2FX-R, ARMORTEX, CWe, CXe, D1EX, E1EX, E1EX-Lead Seal, E1EX~QS, E1EX-U, EX CG, EX CG – lead seal,, FLP, FLP-Hose, FLP-TR, POSI GRIP, UNITEx~QS, UNITEx-D, UNITEx-E, UNITEx-F UNITEx-F~QS, POSI GRIP, VARITEX, VARITEX SWA**

Issued to

**CCG Cable Terminations (Pty) Ltd.**  
**KEMPTON PARK, South Africa**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft**

**Application :**

**Cable glands for electric installation in hazardous area.**

**Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**

Type	Material	Suitable for open deck	Suitable for Hazardous areas
<b>A2EX, A2EX-FHC, A2F, A2FH, A2FX, A2FX-R, ARMORTEX, CWe, CXe, D1EX, E1EX, E1EX-Lead Seal, E1EX~QS, E1EX-U, EX CG, EX CG – lead seal, FLP, FLP-Hose, FLP-TR, POSI GRIP, UNITEx~QS, UNITEx-D, UNITEx-E, UNITEx-F UNITEx-F~QS, POSI GRIP, VARITEX, VARITEX SWA</b>	<b>Metal</b>	<b>Yes</b>	<b>Yes</b>
	<b>Metal</b>	<b>yes</b>	<b>Yes</b>

Issued at **Høvik** on **2021-01-11**

for **DNV GL**

This Certificate is valid until **2025-10-13**.

DNV GL local station: **Newcastle-upon-Tyne**

Approval Engineer: **Nicolay Horn**

**Marta Alonso Pontes**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-019235-2**  
 Certificate No: **TAE0000010**  
 Revision No: **1**

## Product description

Cable glands for electric installation in hazardous area

Type	A2EX ***
Application	The A2EX cable gland is used in explosive atmospheres to terminate unarmoured cables into enclosures. It has an inner seal that seals against the cable and a second seal that provides superior cable retention. The A2EX cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass, nickel plated brass or stainless steel, aluminium
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 110.
Data sheet	0536A2EX, GH210714
Assembly drawing No.	0536-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	A2EX-FHC ***
Application	The A2EX cable gland is used in explosive atmospheres to terminate unarmoured cables housed in conduit into enclosures. It has an inner seal that seals against the cable and a second seal that provides superior cable retention. The A2EX-FHC cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Nickel plated brass.
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25, 32, 40, 50, 63, 75.
Data sheet	0537A2EXFHC, GH240214E
Assembly drawing No.	0537-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	A2F
Application	The A2F cable gland is used in explosive atmospheres to terminate unarmoured cables into enclosures. The A2F cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass, nickel plated brass or stainless steel
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 110, 120, 130.
Data sheet	0541A2F, GH130914E
Assembly drawing No.	0541-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

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<b>Type</b>	<b>A2F-H</b>
Application	The A2F-H cable gland is used in explosive atmospheres to terminate unarmoured cables into enclosures. It has an inner seal that seals against the cable, a second seal that provides superior cable retention and a tail to which a hose can be connected to protect the cable. The A2F-H cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass (marine grade nickel plated), Stainless Steel or Aluminium
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 110, 120, 130.
Data sheet	0449A2FH_HMG140420
Assembly drawing No.	0549-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

<b>Type</b>	<b>A2FX</b>
Application	The A2FX cable gland is a double-seal cable gland used in explosive atmospheres to terminate unarmoured cables into enclosures. It has an inner seal that seals against the cable and a second seal that provides superior cable retention. The A2FX cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass, nickel plated brass, stainless steel or aluminium
Seal material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 110.
Data sheet	0542A2FX, GH160513E
Assembly drawing No.	0542-NPT- ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

<b>Type</b>	<b>A2FX-R</b>
Application	The A2FX-R cable gland is a double-seal cable gland used in explosive atmospheres to terminate unarmoured cables into enclosures. It has an inner seal that seals against the cable and a second seal that provides superior cable retention. The A2FX-R cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0577A2FXR_HMG140420E, Accessories AC230320
Assembly drawing No.	0577-R-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

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Type	ARMORTEX **
Application	The ARMORTEX cable gland is used in explosive atmospheres to terminate SWA cables into enclosures. It has an inner seal that seals against the cable bedding and a second seal that seals against the outer sheath. The ARMORTEX cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75.
Data sheet	0522AmorTex_HMG140420, Accessories AC230320
Assembly drawing No.	0522- ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	CWe
Application	The CWe cable gland is used in explosive atmospheres to terminate SWA cables into enclosures. It has a seal that acts against the outer sheath of the cable. The CWe cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0557CWe_GH140420E, Accessories AC230320
Assembly drawing number	055700-16-055713
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	CXe
Application	The CXe cable gland is used to terminate braided cables into enclosures. It has a seal that acts against the outer sheath of the cable. The CXe cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0570CXe_GH140420E, Accessories AC230320
Assembly drawing number	0570- ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

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Type	D1EX **
Application	The D1EX cable gland is used in explosive atmosphere to terminate SWA cables into enclosures. It has an inner seal that seals against the cable bedding. The D1EX cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0519D1EX_GH100619, Accessories AC230320
Assembly drawing number	0519 -ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	E1EX **,***
Application	The E1EX cable gland is used in explosive atmospheres to terminate SWA cables into enclosures. It has seals that act against the inner bedding and outer sheath of the cable. The E1EX cable gland has a deluge seal and is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with optional high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass (marine grade nickel plated), Stainless Steel or Aluminium
Seal material	Thermoset elastomer (silicone for high temperature seal option)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0523E1EX_GH140420E, Accessories AC230320
Assembly drawing No.	0523 - ASSY
Optional accessories	Earth tag, locknut, serrated washer, pvc shroud.

Type	E1EX-Lead Seal
Application	The E1EX-Lead Seal cable gland is used in explosive atmospheres to terminate SWA cables with lead inner bedding into enclosures. It has an inner seal that act against the lead bedding and maintains continuity plus a seal that acts on the outer sheath of the cable. The E1EX-Lead Seal cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Inner seal – lead. Outer seal - thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0523E1EXLS_GH03091E, Accessories AC230320
Assembly drawing number	0523 LS - ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

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Type	E1EX-U ***
Application	The E1EX-U cable gland is used in explosive atmospheres to terminate armoured cables or cables with braid or tape screens into enclosures. It has seals that act against the inner bedding and outer sheath of the cable. The E1EX-U cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress protection	IP66, IP67, IP68
Gland material	Brass (marine grade nickel plated), Stainless Steel or Aluminium
Seal material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20ss, 20s, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100.
Data sheet	GH050914E
Assembly drawing No.	0571 - ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	EX CG **,***
Application	The EX-CG cable gland is used in explosive atmospheres to terminate armoured cables into enclosures. It has seals that act against the inner bedding and the outer sheath of a cable. It is for use in highly corrosive and / or wet environments. The EX-CG cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-20° C to +95° C
Ingress protection	IP66, IP67 IP68
Gland material	Nickel plated brass with a screw-on sheath made from PBT
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100.
Data sheet	GH070914
Assembly drawing No.	0547 - ASSY
Optional accessories	Earth tag, locknut, serrated washer.

Type	EX CG -LS ( Lead Seal)
Application	The EX-CG Lead Seal cable gland is used in explosive atmospheres to terminate armoured cables with lead inner bedding into enclosures. It has an inner seal that act against the lead bedding and maintains continuity plus a seal that acts on the outer sheath. The EX-CG Lead Seal cable gland is for use in highly corrosive and / or wet environments and is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	ATEX
Operating temperature	-30° C to +180° C
Ingress protection	IP66, IP67 IP68
Gland material	Nickel plated brass with a screw-on sheath made from PBT
Seal material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s.
Data sheet	GH070914
Assembly drawing No.	0547 - ASSY
Optional accessories	Earth tag, locknut, serrated washer.

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Type	FLP **
Application	The FLP cable gland is used in explosive atmospheres to terminate armoured cables into enclosures. It has a seal that acts against the cable sheath. The FLP cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75
Data sheet	0521FLP_HMG140420, Accessories AC230320
Assembly drawing number	0521- ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	FLP-Hose **
Application	The FLP-Hose cable gland is used in explosive atmospheres to terminate unarmoured cables into enclosures. It has a seal that acts against the cable sheath and a tail to which a hose can be connected to protect the cable. The FLP-Hose cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75
Data sheet	0527FLPHOSE_HMG140420, Accessories AC230320
Assembly drawing number	0527- HOSE ASS
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	FLP-TR **
Application	The FLP-TR cable gland is used in explosive atmospheres to terminate unarmoured cables into enclosures. It has a seal that seals against the cable sheath and a second seal that provides superior cable retention. The FLP-TR cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75
Data sheet	0524FLPTR_HMG140420, Accessories AC230320
Assembly drawing number	0524- ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

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Type	POSI GRIP **
Application	The POSI GRIP cable gland is used in highly corrosive explosive atmospheres to terminate unarmoured cables into enclosures. The POSI GRIP cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	ATEX
Operating temperature	-20° C to +95° C
Ingress protection	IP66, IP67 IP68
Gland material	Brass encapsulated in glass reinforced polyester (PBT).
Seal material	Thermoset elastomer
Gland sizes	20ss, 20s, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100, 110
Data sheet	GH250414
Assembly drawing No.	0545 - ASSY
Optional accessories	Earth tag, locknut, serrated washer.

Type	UNITEx~QS *
Application	The UNITEx~QS barrier cable gland is used in explosive atmospheres to terminate cables with braid or SWA armours into enclosures. It uses a liquid resin barrier material to seal against the conductors and a standard seal that acts against the outer sheath. The UNITEx~QS cable gland has a deluge seal and is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-50°C to +100°C (to +120°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0559UNITExQS_G090318E, Accessories AC230320
Assembly drawing number	0559-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	UNITEx-D
Application	The UNITEx-D cable gland is used in explosive atmospheres to terminate cables with braid or SWA armours into enclosures. It has seals that act against the cable bedding and outer sheath. The UNITEx-D cable gland has a deluge seal and is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX & others
Operating temperature	-60°C to +100°C (to +160°C with high temperature seals)
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer (silicone for high temperature seals)
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0554UNITEX_D_GH290620E, Accessories AC230320
Assembly drawing number	0554-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.



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Type	UNITEx-E
Application	The UNITEx-E cable gland is used in explosive atmospheres to terminate cables with braid or SWA armours into enclosures. It has an IP only seal that acts against the cable bedding and a standard seal that acts against the outer sheath. The UNITEx-E cable gland has a deluge seal and is supplied with a sealing washer as standard. It is suitable for use with cables at risk of coldflow.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel
Seal Material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0591UNITEx_GH030918E, Accessories AC230320
Assembly drawing number	0591-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	UNITEx-F
Application	The UNITEx-F cable gland is used to terminate cables with braid or SWA armours into enclosures. It has an IP only seal that acts against the cable bedding and a standard seal that acts against the outer sheath. The UNITEx-F cable gland has a deluge seal and is supplied with a sealing washer as standard. It is suitable for use with cables at risk of coldflow.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0510UNITExF_OSM250719NA, Accessories AC230320
Assembly drawing number	0510-ASSY
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	UNITEx-F~QS *
Application	The UNITEx-F~QS barrier cable gland is used to terminate cables with braid or SWA armours into enclosures. It uses a liquid resin barrier material to seal against the conductors and a standard seal that acts against the outer sheath. The UNITEx-F~QS cable gland has a deluge seal and is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer
Gland sizes	16ss, 20ss, 20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 75s, 75, 80, 90s, 90, 100, 115, 130
Data sheet	0587UNITExF_QSTXOSM240719NA, Accessories AC230320
Assembly drawing number	0587-ASSY
Optional accessories	Earth tag, locknut, serrated washer, pvc shroud.

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Type	VARITEX
Application	The VARITEX cable gland is used in explosive atmospheres to terminate copper tape sheathed (VSD) cables into enclosures. It has a seal that acts against the outer sheath of the cable. The VARITEX cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress protection	IP66, IP67 IP68
Gland material	Nickel plated brass or stainless steel
Seal material	Thermoset elastomer
Gland sizes	20s, 20, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 63L, 75.
Data sheet	GH270214
Assembly drawing No.	0531 - 0 - 053107
Optional accessories	Earth tag, locknut, serrated washer, shroud.

Type	VARITEX-SWA
Application	The VARITEX-SWA (VRTX-SWA) cable gland is used in explosive atmospheres to terminate copper sheathed (VSD) cables with SWA armours into enclosures. It has seals that act against the cable bedding and outer sheath. The (VRTX-SWA) cable gland is supplied with a sealing washer as standard.
Design Specification	IEC 62444
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress Protection	IP66, IP67, IP68
Gland Material	Brass (marine grade nickel plated), Stainless steel or aluminium
Seal Material	Thermoset elastomer
Gland sizes	20s, 20, 25s, 25, 32s, 32, 40s, 40, 50s, 50, 63s, 63, 63L, 75, 80
Data sheet	0531VariT_EMC100619, Accessories AC230320
Assembly drawing number	0531-0 - 053107 - SWA
Optional accessories	Earth tag, locknut, serrated washer, shroud.

`\*` Glands also available in the following options:-  
 (VX) – ‘Vortex’ glands include a coloured resin barrier material.

`\*\*` Glands also additionally available in the following options:-  
 (QS) – ‘Quickstop’ glands include a resin barrier material.

`\*\*\*` Glands also additionally available in the following options:-  
 (VS) – fitted with an internal contact disc for use with copper tape (Variable Speed Drive) or lead sheathed cables.

(Note that for the (QS) and (VX) variants the minimum temperature is -50°C and the maximum is 100°C).

Variants of the products listed in this certificate where the core functions and protection systems are unchanged are also covered by the certificate.

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<b>Optional accessories</b>	<b>Adaptors, reducers, unions, couplers, breather drains, plugs for use in explosive atmospheres.</b>
Application	ADAPTORS & REDUCERS are used to change a thread size or type. UNIONS & COUPLERS are used to change a thread to a thread of the opposite gender. The thread can also change size / type. INSULATED ADAPTORS are used to provide electrical isolation. 90° fixed and swivel ADAPTORS are used to change the direction of the cable. BREATHER DRAIN PLUGS & ADAPTORS are used to equalise pressure in an enclosure and allow any trapped moisture to escape. HEX HEAD and DOME HEAD PLUGS are used to blank off entry holes. STOPPER PLUGS are used to blank off threaded entry holes. They are secured using an Allan key from the outside (standard type) or the inside (security type) of the enclosure. All of the items listed above are supplied with sealing washers on any metric male threads
Certification	IECEX, ATEX
Operating temperature	-60°C to +100°C
Ingress protection	IP66, IP67, IP68
Material	Brass (marine grade nickel plated), Stainless steel or aluminium

### Application/Limitation

Manufacturer's application and assembly instructions to be followed.  
 The information related to EN certification from recognised test institution is given as information only.

### Type Approval documentation

Data sheets and assembly	See each product construction
Type A2EX: Type A2F: Type A2FX: Type E1EX: Type E1EX~LS: Type EX CG: Type EX CG~QS:	IECEX ITA 12.0014X (2013-07-04); TUV 13ATEX7397X (2013-05-15); TUV 13ATEX7422X (2013-07-13);
Type A2EX-FHC:	IECEX ICS 14.0002X DEMKO 01ATEX130325X (2002-03-07)
Type EX CG-LS :	DEMKO 01ATEX130325X (2002-03-07)
Type POSI GRIP:	DEMKO 01ATEX130325X (2002-03-07) ANZEx 08.2003U (2008-06-02)

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Type A2FH: Type A2FX-R: Type ARMORTEX: Type CWe: Type CXe: Type D1EX: Type FLP: Type FLP Hose: Type FLP-TR: Type UNITEx~QS: Type UNITEx-D: Type UNITEx-E: Type UNITEx-F: Type UNITEx-F~QS:	CML test report no. R11596A/00 dated March 2017, CML test report no. R12096A/00 dated Nov.2018, CML test report no. R12725A/00 dated Aug.2019, CML test report no. R12476A/00 dated May.2019, CML evaluation report no. cml 20ATEX1026 issued May 2020, CML Ex Certificate of conformity no. IECEx CML 18.0018X issued 2020-06-17, IECEx-MS-20.0002 issued 2020-05-26, MSTC test report no. AU/MS-Ex TR20.00004/00 issued 2020-05-26, TUV test report no. AU/ITA/ExTR15.0051/00 issued 2015-12-19
Type E1EX-U Type E1EX-U~QS	IECEX ITA 14.0008X (2014-04-30); TUV 14ATEX7534X (2014-07-15);
Type VARITEX Type VARITEX SWA	ANZEx 09.4086X (2011-07-04) cml Ex Certificate of conformity no. IECEx CML 18.0018X issued 2020-06-17, cml test report no. R12725A/00 dated Aug.2019,
Optional accessories:	IECEX ITA 13.0005X, SIRA 14 ATEX1006X

### Tests carried out

Type tests according to IEC/EN 60079-0, IEC/EN60079-1, IEC/EN 60079-7, IEC/EN 60079-15, IEC/EN 60079-31, IEC 60529, IEC 61241-1-1, IEC 61241-0

### Marking of product

CCG cable termination (PTY) LTD – Type designation – IP rating (when claimed) - According to IECx Certificate of Conformity and /or Atex.

### Periodical assessment

The scope of the periodical assessment survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer’s product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE