



Certificate of Assessment **CML 14CA370-2 Issue 4**

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| 1 | Equipment
Models | <p>Cable Glands/Adaptors/Reducers & Blanking Plugs</p> <p>Cable Gland Series CXe, CWe, E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), A2F, A2F-R, A2F-H, A2F-H-R, A2FX, A2FX-R, A2FX-H, A2FX-H-R A2F-FHC, A2F-HTF, ARMORTEX (QS)(VX), EXCG-Lead Seal, FLP-TR (QS)(VX), FLP-TR-KHDE (QS)(VX), FLP HOSE (QS)(VX), Posi Grip (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)</p> <p>Threaded Adaptors, Reducers and Blanking Plugs</p> <p>Adaptor Series AGZZZGYYYE, Reducer series RGZZZGYYYE and Blanking Series PFGZZER</p> <p>90°, 'T' and 'Y' Fixed & Swivel Adapters</p> |
| 2 | Manufacturer | CCG Cable Terminations Ltd |
| 3 | Address | 33-37 Forge Road
Spartan Industrial Area
Kempton Park
1619
South Africa |
| 4 | The components specified have been evaluated against the requirements of the standard specified in Section 6. | |
| 5 | This evaluation is based on the following documents: | <p>Reports CML R370A, CML R1179A, CML R11692A, R15466A/00, LR1537-2R1 along with all reports associated with all issues of IECEx CML 16.0059U, IECEx CML 16.0062X, IECEx CML 18.0018X and IECEx CML 20.0011.</p> |
| 6 | Specification: | DTS01 DELUGE SYSTEMS - TEST SCHEDULE FOR ELECTRICAL EQUIPMENT TO BE INSTALLED IN AREAS SUBJECT TO WATER DELUGE SYSTEMS, DATED AUG 1991 |
| 7 | Assessment | This is to certify that, on the basis of the testing carried out, that the above model ranges were considered to comply with the requirements listed in section 6, with respect to the DTS01 Deluge testing. |
| 8 | Date: | 24/06/2022 |
| 9 | Revision History: | <p>Issue 1 - To correct typographical error</p> <p>Issue 2 - To extend allowable NPT size to 4" for E1EX and A2Ex gland ranges.</p> <p>Issue 3 - To extend the range of gland types covered, as well as to include Adaptors, reducers, Blanking Plugs and 90° Fixed & Swivel Adapters to the certificate.</p> <p>Issue 4 - To extend the range of gland types covered, to remove the Stopex gland types, addition of 'T' and 'Y' swivel adaptors, update to conditions of manufacture and conditions of certification, update to certificate format.</p> |

H M Amos
International Hazloc Manager

10 Conditions of Manufacture

- i. A copy of the installation instructions shall be provided / made available and shall contain appropriate information to allow the installer to correctly select and install the glands, adaptors, reducers, blanking plugs, 90°, 'T' or 'Y' fixed & swivel adapters.
- 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.

11 Conditions of Certification

- i. All product types are to be installed in accordance with the manufacturer's instructions and using the parts provided only.
- ii. When installing Quick Stop (~QS) or Vortex (~VX) gland versions with a metal sleeve, this can only be used in conjunction with the corresponding sealing compound and in accordance with the manufacturer instructions.
- iii. Adaptors, Reducers and 90°, 'T' and 'Y' fixed and swivel adaptors must be fitted with DTS 01 compliant CCG cable glands.

Annex A

Description

Cable glands for use with armoured cables, Types: E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), CXe, CWe, EXCG (VS)(QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEX-E, UNITEX~QS(VX), UNITEX-F, UNITEX-F~QS(VX)

Cable glands for use with non-armoured and braid cables, Types: A2F, A2F-R, A2F-H, A2F-H-R, A2FX, A2FX-R, A2FX-H, A2FX-H-R, A2F-FHC, A2F-HTF, FLP-TR (QS)(VX), FLP-TR-KHDE (QS)(VX), FLP HOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX),

Notes:

1. Cable glands with parallel entry threads are IP66/68 when fitted with the supplied sealing gasket. 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. Cable glands with parallel entry threads (e.g., Metric and BSP parallel) are supplied with fitted sealing gaskets as standard. The sealing gasket is optional for Ex d applications without IP rating. (RE-FLEX cord may be used as an alternative to a standard sealing gasket.)
3. VS in the name of a cable gland variant indicates that a thin copper/brass disc is fitted 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.
4. 'FC' added to the name of a cable gland indicates that the outer seal nut has an additional female thread to allow the connection of a flexible conduit.
5. 'QS' in the name of a cable gland variant, indicates that it is the Quickstop resin barrier version of the cable gland. This utilises a clear potting compound to achieve a hard setting seal inside the gland. The sealing compound is transparent and accommodates inspection.
6. 'VX' in the name of a cable gland variant, refers to the Vortex resin barrier version of the cable gland. 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.
7. Cable glands that are available as both barrier (QS or VX) and non-barrier versions may be supplied as non-barrier versions together with the additional components needed to convert them to barrier versions if required. When the conversion is carried out the product marking does not need to be changed
8. RE-FLEX sealing cord can be used as an alternative to a standard sealing gasket to achieve IP66/68. It is intended as a retro-fit solution and must be installed according to the fitting instructions supplied with it.
9. For cable gland size ranges, see corresponding IECEx certificates; IECEx CML 18.0018X and IECEx CML 20.0011.
10. Cable glands may be provided with intermediate metric threads.

90°, 'Y' and 'T' Fixed & Swivel Adapters

The 90°, 'Y' and 'T' Fixed & Swivel Adapters are manufactured from brass with a male threaded portion at one end and female at the other(s). They are intended for use where space is limited and there may not be room to fit a gland and cable in the conventional manner. They are intended for fitting to a threaded or plain hole when they are secured using a locknut. On the 'T' and 'Y' adaptors the female threads do not need to be the same size as each other.

The swivel adaptor allows repositioning to align the cable in the desired direction when the adapter is fully tightened. The fixed adapters are available with Metric, NPT, BSPP or BSPT male and female threads with the female threads the same size as, or any size smaller than, the male thread. The swivel adaptors are available with metric or BSPP male threads and either metric, NPT, BSPP or BSPT female threads the same size as, or any size smaller than, the male thread.

Range of Threaded Adaptors, Reducers and Blanking Plugs

The Range of Threaded Adaptors, Reducers, Unions, Couplers and Blanking Plugs are designed for inserting into enclosures having threaded entries, as appropriate for the type of protection. The devices are manufactured from brass (nickel plated), stainless steel, mild steel or bronze.

A non-metallic washer/gasket may be utilised on all non-tapered threads to ensure IP66/67/68 (2m cont.) ratings. The devices maintain an IP65 rating with no washer fitted.

Where the thread size coding is as follows:

Metric sizes		BSP/NPT/NPSM sizes		Notes
016 = M16	020 = M20	012 = ½"	034 = ¾"	For metric threads the pitch is:- <ul style="list-style-type: none"> • M75 and smaller has 1.5mm pitch (minimum thread length 12mm) as standard with an optional pitch of 2mm (minimum thread length 16mm) • M80 and larger has 2 mm pitch (minimum thread length 16mm) as standard with an optional pitch of 1,5mm (minimum thread length 12mm).
025 = M25	032 = M32	001 = 1"	114 = 1¼"	
040 = M40	050 = M50	112 = 1½"	002 = 2"	
063 = M63	075 = M75	212 = 2½"	003 = 3"	
080 = M80	090 = M90	312 = 3½"	004 = 4"	
100 = M100				

The following details the Model Nomenclature:

Threaded Adaptors = AGZZZGYYYYE, Threaded Reducers = RGZZZGYYYYE and Threaded Blanking Plugs = PFGZZZER

A =	ADAPTOR	P =	PLUG (Blanking element)
R =	REDUCER	F =	TYPE
G =	THREADFORM	S =	STOPPER
M =	METRIC	D =	DOME HEAD
N =	NPT	H =	HEX HEAD
		G =	THREADFORM
		M =	METRIC
		N =	NPT
		N =	NPT
NPSM =	NPSM	B =	BSPP
B =	BSPP	BSPT =	BSPT
BSPT =	BSPT	NPSM =	NPSM
P =	PG	P =	PG
G =	EUROPE G (PARALLEL)	G =	EUROPE G (PARALLEL)
GK =	GK (TAPER)	GK =	GK (TAPER)
R =	R (PARALLEL)	R =	R (PARALLEL)
RK =	RK (TAPER)	RK =	RK (TAPER)
PF =	JAPAN PF (PARALLEL)	PF =	JAPAN PF (PARALLEL)
K =	K mpy (TAPER)	K =	K mpy (TAPER)
ZZZ =	MALE THREAD SIZE	ZZZ =	THREAD SIZE
YYY =	FEMALE THREAD SIZE	E =	Ex COMPONENT
E =	Ex COMPONENT		