



国家防爆

Certificate number: CNEx21.3387X

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

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

Product Cable Gland

Type E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal

Marking Ex d IIC Gb/ Ex e IIC Gb/ Ex tD A21 IP65/IP66/IP67/IP68

Standard(s) ———

Drawing No. 0523 - ASSY, 0523-LS ASSY, 0523 - ASSY-QS, 0523L-ASSY, 0571- ASSY, 0571L ASSY

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010	Explosive atmospheres - Part 1: Equipment - General requirements
GB 3836.2-2010	Explosive atmospheres - Part 2: Equipment protection by flameproof enclosures "d"
GB 3836.3-2010	Explosive atmospheres - Part 3: Equipment protection by increased safety "e"
GB12476.1-2013	Electrical apparatus for use in the presence of combustible dust - Part 1: General requirements
GB12476.5-2013	Electrical apparatus for use in the presence of combustible dust - Part 5: Protection by enclosure "tD"

Note:

See Annex (5 page in total).

Director

Date:

2021-8-30

Valid until:

2026-8-29



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This product has been certified, under certificate number IECEx CML 18.0018X, issue 5, dated 2020-09-02 and Test report GB/CML/ExTR20.0189/00 dated 2020-09.

Product Description:

The main material of the product is stainless steel, brass (nickel-plated), etc., and the protection level is IP65/66/67/68 (2m/continuous).

Type designation:

- E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal

Ex Protection & Sizes

Armoured Cable Glands:

Marking	E1EX (VS) (QS)(VX)	E1EX-U (VS) (QS)(VX)	E1EX Lead Seal
Sizes	00 - 13 (metric) 00 - 11 (NPT)	00 - 10 (metric) & NPT	00 - 13 (metric) 00 - 11 (NPT)
Metric Thread type	16 - 130	16 - 100	20 - 130
NPT Thread type	1/2" - 4"	1/2" - 4"	1/2" - 4"
Sealing Gasket ##	SG	SG	SG
Ex d IIC Gb	YES	YES	YES
Ex e IIC Gb	YES	YES	YES
Ex tD A21	YES	YES	YES
IP 66/68	YES	YES	YES
IP 65 NPT	YES	YES	YES

Note: ##: Not applicable to NPT thread. Applicable to all parallel thread (e.g. Metric). Optional for Ex d application without IP rating.

VS: The VS in the table above 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.

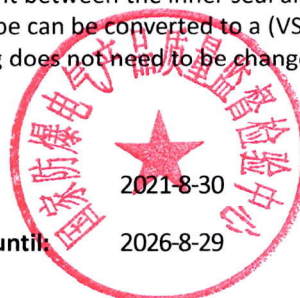
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QS: The QS in the table above, refers to the Quickstop version of the cable glands. This utilises a clear potting compound to achieve a hard setting seal inside the gland. The sealing compound is transparent and accommodates inspection.

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.

Combination glands

Armoured glands type E1EX and E1EX-U 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.

Materials of Cable Gland:

Description	Materials
Metallic Parts	BRASS (Nickel-plated) CZ121, Stainless steel 316, BRONZE PB2, MILD STEEL (EN8), Aluminium 6063
Skid Ring	BRASS (Nickel-plated) CZ121, STAINLESS STEEL 316, BRONZE PB2, MILD STEEL (EN8), Aluminium 6063 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)
Sealing Compound	Clear Quick Stop Ex Resin S50/EPA (-50°C to 115°C) Coloured Vortex Resin S50/EPA/Y (-50°C to 115°C)
Outer/Inner/Resin Seals End stops	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)
Sealing Gasket	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)

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Cable Gland Range Construction:

Constructional parts	E1EX (VS)(QS)(VX) ###	E1EX U (VS)(QS)(VX) ###	E1EX Lead Seal
Inner	E1EX	E1EX-U	E1EX-LS
Inner Seal	E1EX	E1EX-U	E1EX
Body	E1EX	E1EX-U	EXCG
Outer Seal	E1EX	E1EX-U	E1EX
Skid Ring	E1EX	E1EX-U	E1EX
Outer nut	E1EX	E1EX-U	E1EX
Cone	E1EX	E1EX-U	D1EX
Cone Ring	E1EX	E1EX-U	E1EX
Sealing Compound **	YES	YES	N/A
Lock Nut	Optional	Optional	Optional
O-Ring	YES	YES	YES
Lead Seal	N/A	N/A	YES
Quick Stop or Vortex with Sleeve Assembly	YES	YES	N/A

** : Use of Metal sleeve and clear sealing compound (Quickstop- QS on Marking), or metal sleeve and coloured sealing compound (Vortex - VX on marking)

###: 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.

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Detail Size:

Marking Code	E1EX (VS) (QS)(VX)		E1EX-U (VS) (QS)(VX)		E1EX Lead Seal	
	Metric	NPT	Metric	NPT	Metric	NPT
00s-16ss	M16×1.5	--	M16×1.5	--	M16×1.5	--
00s-20ss	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
00-20ss	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
0s-16s	M16×1.5	--	M16×1.5	--	M16×1.5	--
0s-20s	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
0-20s	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
1-20	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
2s-25s	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"
2-25	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"
3s-32s	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"
3-32	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"
4s-40s	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"
4-40	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"
5s-50s	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"
5-50	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"
6s-63s	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"
6-63	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"
7s-75s	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"
7-75	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"
8-80	M80×2.0	3"	M80×2.0	3"	M80×2.0	3"
9s-90s	M90×2.0	3" / 3½"	M90×2.0	3" / 3½"	M90×2.0	3" / 3½"
9-90	M90×2.0	3" / 3½"	M90×2.0	3" / 3½"	M90×2.0	3" / 3½"
10-100	M100×2.0	3½" / 4"	M100×2.0	3½" / 4"	M100×2.0	3½" / 4"
11-115	M115×2.0	4"	--	--	M115×2.0	4"
12-120	M120×2.0	--	--	--	M120×2.0	--
13-130	M130×2.0	--	--	--	M130×2.0	--

Ex marking: Ex d IIC Gb/ Ex e IIC Gb/ Ex tD A21 IP65/IP66/IP67/IP68

IP degree: IP 66/67/68 (2m/cont) or IP65 (As applicable)

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Specific conditions of safety use:

- 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.
- The cable glands shall only be used where the temperature, at the point of entry, is between:
Quickstop or Vortex resin, when used with any 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)
- Only the compounds as supplied by the manufacturer shall be used in the glands.
- 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.
- The appropriate ingress protection level and / or flameproof characteristics must be achieved and maintained at the interface of the gland with the enclosure.

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