



国家防爆

Certificate number: CNEx21.3389X

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 Non-Armoured Cable Gland

Type A2F, A2F-R, A2F-H, A2F-H-R, A2FX, A2FX-R

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

Standard(s) —

Drawing No. 0577-R-ASSY, 0590-R-ASSY, 0497-H-R ASSY, 0449-ASSY, 0541-ASSY, 0542 - 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 (3 page in total).

Director

Date: 2021-8-30

Valid until: 2026-8-29



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTER
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This product has been certified, under certificate number IECEx CML 20.0011X, issue 1, dated 2020-05-15 and Test report GB/CML/ExTR20.0121/00 dated 2020-05.

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:

- A2F, A2F-R, A2F-H, A2F-H-R, A2FX, A2FX-R

Ex Protection & Sizes:

Marking	A2F	A2F - R	A2F-H	A2F-H-R	A2FX	A2FX-R
Sizes	00-13 (Metric & NPT)	00-13 (Metric & NPT)	00-7 (Metric & NPT)	00-7 (Metric & NPT)	00-13 (Metric & NPT)	00-13 (Metric & NPT)
Metric Thread type (M)	16 to 130	16 to 130	16 to 75	16 to 75	16 to 130	16 to 130
NPT thread Type	½" to 4"	½" to 4"	½" to 3"	½" to 3"	½" to 4"	½" to 4"
Sealing Gasket ##	SG	SG	SG	SG	SG	SG
Ex d IIC Gb	YES	YES	YES	YES	YES	YES
Ex e IIC Gb	YES	YES	YES	YES	YES	YES
Ex d I Mb	YES	YES	YES	YES	YES	YES
Ex e I Mb	YES	YES	YES	YES	YES	YES
Ex tD A21	YES	YES	YES	YES	YES	YES
IP 66/68	YES	YES	YES	YES	YES	YES
IP 65 NPT	YES	YES	YES	YES	YES	YES

Note: 1) Intermediate metric thread sizes are permitted. (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.)

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

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Materials of Non-Armoured 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)
Outer/Inner Seal	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	Nylon 66 (-65°C to 120°C) or PTFE CCG-PTFE-001 (-270°C to 260°C) or HDPE D7255/HL (-100°C to 120°C)

Non-Armoured Cable Gland Range Construction:

Constructional parts	A2F	A2F-R	A2F-H	A2F-H-R	A2FX	A2FX-R
Inner	A2F	A2FX-R	A2F	A2F-R	A2F	A2FX-R
Inner Seal	A2	A2	A2	A2	A2	A2
Body	N/A	N/A	N/A	N/A	A2FX	A2FX-R
Outer Seal	N/A	N/A	N/A	N/A	A2	A2
Skid Ring	A2	A2	A2	A2	A2	A2
Outer nut	A2F	A2FX-R	A2FH	A2FH-R	A2F	A2FX-R
Lock Nut	Optional	Optional	Optional	Optional	Optional	Optional
Sealing Gasket ##	SG	SG	SG	SG	SG	SG

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

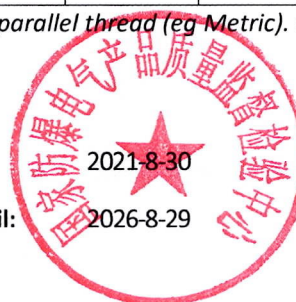
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Detail Size:

Marking Code	A2F, A2F-R, A2FX, A2FX-R		A2F-H, A2F-H-R	
	Metric	NPT	Metric	NPT
00s-16ss	M16×1.5	--	M16×1.5	--
00s-20ss	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
0-20s	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
1-20	M20×1.5	½" / ¾"	M20×1.5	½" / ¾"
2s-25s	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"
2-25	M25×1.5	¾" / 1"	M25×1.5	¾" / 1"
3s-32s	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"
3-32	M32×1.5	1" / 1¼"	M32×1.5	1" / 1¼"
4s-40s	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"
4-40	M40×1.5	1¼" / 1½"	M40×1.5	1¼" / 1½"
5s-50s	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"
5-50	M50×1.5	1½" / 2"	M50×1.5	1½" / 2"
6s-63s	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"
6-63	M63×1.5	2" / 2½"	M63×1.5	2" / 2½"
7s-75s	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"
7-75	M75×1.5	2½" / 3"	M75×1.5	2½" / 3"
8-80	M80×2.0	3"	--	--
9s-90s	M90×2.0	3" / 3½"	--	--
9-90	M90×2.0	3" / 3½"	--	--
10-100	M100×2.0	3½" / 4"	--	--
11-110	M110×2.0	4"	--	--
12-120	M120×2.0	--	--	--
13-130	M130×2.0	--	--	--

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

Note: When manufactured from aluminium, the cable glands shall not be marked for Group I applications.

IP degree: IP66/IP67/IP68(2m cont), IP65 (as applicable)

Specific conditions of safety use:

- Service temperature range: -60°C~+100°C (standard seals), -60°C~+160°C (extreme temp seals).
- The products must be marked with their temperature range, the upper and lower ranges limited by the most onerous of the relevant non-metallic parts and, where applicable, the flameproof testing.

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