

A2EX-FHC

Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC

COMPRESSION GLAND for Single or Multi-Core Unarmoured Cable Housed In Conduit

Features and Benefits

- For indoors and outdoors, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- For use with all types of unarmoured cable housed in rigid or flexible conduit.
- A harder outer seal grips the cable, giving it superior cable retention and an IP rating.
- Fitted with a rotating female conduit coupler. .
- The cable is factory fitted with a specially formulated elastomeric seal for Built-in Safety™ that seals on the inner sheath of the cable. Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™), available in stainless
- steel 316/316L on request. Supplied with a thread-sealing gasket (parallel threads only).

Technical Data	
Туре:	A2EX-FHC
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Single or Multi-Core Unarmoured Housed in Conduit
Sealing Area:	Inner Sheath
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud
Note:	The installer should ensure that the materials are suitable for the installation environment.

Standards and Certifications								
Equipment Protection Levels:	IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: ŵ II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta III TR CU: ₩ 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da							
Continuous Operating Temp:	Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)							
Conformance:	Standard:	Certificate:						
IEC/BS EN	IEC/BS EN 62444, 6121	CML 14CA364						
IECEx	IEC 60079 Part 0, 1, 7, 15, 31	IECEx CML 20.0011						
ATEX	EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15	CML 20ATEX1026 CML 22ATEX4116						
UKEX	BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 15	CML 21UKEX1013 CML 22UKEX4117						
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31	TÜV 24.0267						
TR CU (Russia)	ГОСТ 31610-0, 15, ГОСТ IEC 60079-1 ГОСТ Р МЭК 60079-7, 31	EA9C RU C-ZA.HA91.B.00245/21						
CCC/CNEx (Chinese)	GB/T3836.1, 2, 3, 31-2021	CNEx 21.3386X CCC 2021312313000395						
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC S/20-9022						
IP66/68 100m - Parallel IP65 - Tapered	IEC 60529 IEC 60529	CML 15Y728						
IP68 - Tapered and approved greas		IECEx CML 20.0011						
Deluge Protection	DTS-01	CML 14CA370-2						
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667						
Marine ABS DNV	IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, IEC 60529	ABS 20-1952706-1-PDA TAE0000010						
EMC Compatible	EN 55011, + A1, EN 55022	SGS EMC305079/1						

🞬 🔂 CE 24 🔍 SGS [A[[] 🖾 🌠 👐 🔍 🗟 🖗 ABS 🚃 📖 🌧 📗

Conditions for Safe Use - X

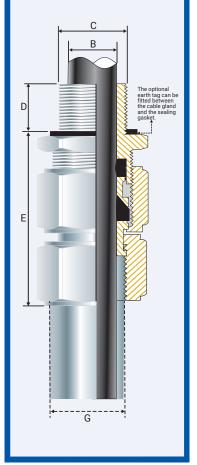
None. Note: According to IEC 60079-14, 10.6.2: An Ex d gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a CCG VORTEx® barrier gland should be used.

CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Ple

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail		Max	Female Conduit Thread		Hexagonal Detail		Install.
		ʻC'	Min 'D'	ʻC'	Min 'D'	Min 'B'	Max 'B'	Length 'E'	Metric 'G'	NPT 'G'	Max 'Flats'	Max 'Crns'	Torque Value Nm
053700-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	57.0	M16-M25	-	24.0	27.0	32.5
053700	00-20ss	M20x1.5	15	1/2/3/4	15.0	3.0	8.5	57.0	M16-M25	1/2/3/4	24.0	27.0	32.5
0537-0	0-20s	M20x1.5	15	1/2/3/4	15.0	7.0	12.0	57.0	M16-M25	1/2/3/4	24.0	27.0	32.5
053701	1-20	M20x1.5	15	1/2/3/4	15.0	11.0	15.0	64.0	M16-M25	1/2/3/4	27.0	30.0	32.5
053722	2s-25s	M25x1.5	15	3/4/1	15/19	11.5	17.5	71.0	M25	3/4/1	35.0	39.0	47.5
053702	2-25	M25x1.5	15	3/4/1	15/19	15.0	20.0	71.0	M25	3/4/1	35.0	39.0	47.5
053733	3s-32s	M32x1.5	15	1/1¼	19.0	16.0	22.0	85.0	M32	1/1¼	42.0	47.0	55.0
053703	3-32	M32x1.5	15	1/1¼	19.0	20.0	26.5	85.0	M32	1/1¼	42.0	47.0	55.0
053744	4s-40s	M40x1.5	15	11/4/11/2	19/21	22.0	31.5	102.0	M40	11/4/11/2	52.0	59.0	65.0
053704	4-40	M40x1.5	15	11/4/11/2	19/21	26.0	34.0	102.0	M40	11/4/11/2	52.0	59.0	65.0
053755	5s-50s	M50x1.5	15	1½/2	21.0	29.0	38.0	112.0	M50	1½/2	65.0	73.0	82.5
053705	5-50	M50x1.5	15	1½/2	21.0	34.0	44.5	112.0	M50	1½/2	65.0	73.0	82.5
053766	6s-63s	M63x1.5	15	2/21/2	21/30	38.0	50.0	144.0	M63	2/21/2	80.0	90.0	97.5
053706	6-63	M63x1.5	15	2/21/2	21/30	44.5	56.5	144.0	M63	2/21/2	80.0	90.0	97.5
053777	7s-75s	M75x1.5	15	21⁄2/3	30/32	50.0	62.0	164.0	M75	21⁄2/3	96.0	108.0	115.5
053707	7-75	M75x1.5	15	21⁄2/3	30/32	56.0	67.5	164.0	M75	21⁄2/3	96.0	108.0	115.5
053708	8-80	M80x2.0	20	3	32.0	59.0	69.0	175.0	M80	3	96.0	108.0	120.0
053799	9s-90s	M90x2.0	20	3/31/2	32/33	60.0	75.0	184.0	M90	3/31/2	111.0	125.0	120.0
053709	9-90	M90x2.0	20	3/31/2	32/33	73.0	81.5	184.0	M90	3/31/2	111.0	125.0	120.0
053710	10-100	M100x2.0	20	3/31/2/4	33/34	81.0	92.0	189.0	M100	3/31/2/4	125.0	141.0	120.0

All dimensions except NPT are in mm. Male Entry Thread 'C' and Female Entry Thread 'B' can only be any combination of either NPT or Metric threads. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.





FITTING INSTRUCTIONS **Metric Illustration**



A2EX-FHC COMPRESSION GLAND

any mismatch).

20.7mm)

other applications

With a thread tolerance of metric class '6H' or equivalent.

accommodated using glands with extended entry threads.)

Compound.

Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all

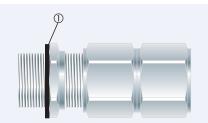
Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm.

Through material that is between 1mm and 12mm thick. (Thicker materials can be

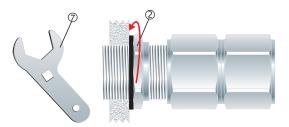
(e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

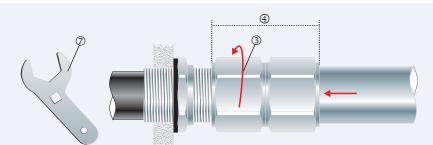
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 µm.
- . Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- OR CLEARANCE HOLES (not Ex d) Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant. MUST HAVE THREADED ENTRIES
- The same thread size as the cable gland. (Thread adapters should be used to correct
 - (A) 9
- For accurate sizing, use a CCG Dimension Tape (A) on the outer cable sheath. 1.



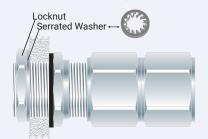
2. To maintain IP66/68, ensure the gasket ① is in place. If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical



3. Screw the gland unit into the apparatus. Tighten the inner until hand tight 2 using a CCG Spanner ⑦ with ¼ turn.

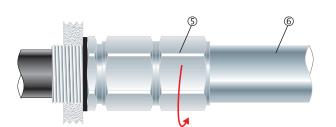


Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.

4 Pass the cable end through the conduit assembly 3 and the gland assembly. Tighten the outer 3 to the installation torque using a CCG Spanner 0 to produce a seal and grip on the cable.



5. Fit the threaded conduit end 6 into the female rotating threads 5 as indicated.