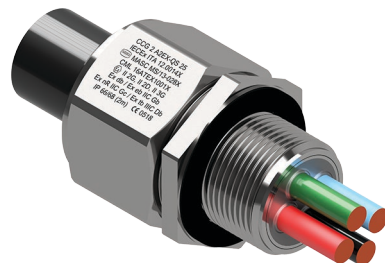


# A2EX QuickStop-Ex®

Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC

**BARRIER COMPRESSION GLAND for Unfilled Unarmoured Cable**



## Features and Benefits

- For indoor, outdoor, Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- For unfilled hygroscopic multicore cables refer to IEC 60079-14; 9.3.2 and 10.6.2a, IEC 61892-7, 10.6 and 10.7.
- Instantly mixed and injected Resin forms a 100% barrier seal around the individual cores of the cable.
- Prevents explosive gases and/or liquids transmitting down cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request.
- Supplied with a thread sealing gasket (parallel threads only).



## Technical Data

Type:	A2EX QuickStop-Ex®
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium, Stainless Steel 316/316L
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals, Quick setting Barrier Resin
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Unarmoured
Sealing Area:	Outer Sheath and QuickStop® Resin around Cable Conductors
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.

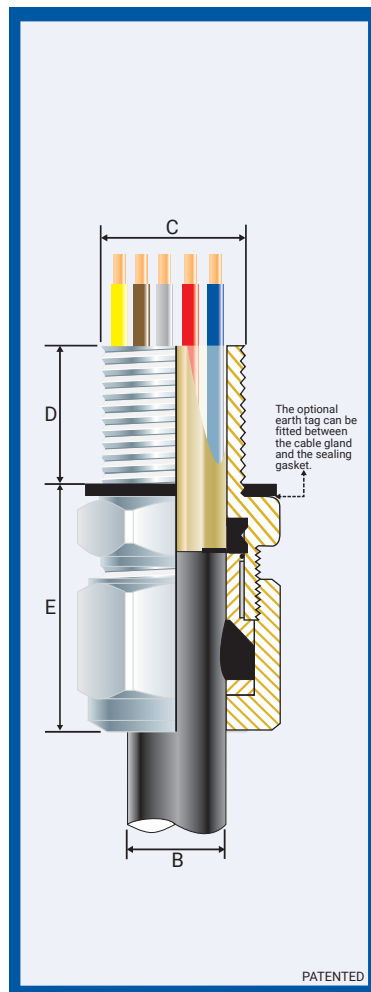
## Standards and Certifications

Equipment Protection Levels:	IECEx/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db ATEX/UKEX: Ex II 2GD, II 3G, Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db, Ex nR IIC Gc TR CU: Ex I Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X	
Continuous Operating Temp:	-50°C to +95°C	
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444, 6121	CML 14CA364
IECEX	IEC 60079 Part 0, 1, 7, 15, 31	IECEX CML 18.0018X
ATEX	EN 60079 Part 0, 1, 7, 31	CML 16ATEX1001X
UKEX	BS EN 60079 Part 0, 1, 7, 31	CML 16ATEX4002X
INMETRO (Brazil)	BS EN 60079 Part 0, 1, 7, 31	CML 21UKEX1011X
TR CU (Russia)	BS EN 60079 Part 0, 15	CML 21UKEX4006X
KCs (Korean)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31	TÜV 15.0483X
CNEx (Chinese)	GOCT 31610-0, 15, GOCT IEC 60079-1	EA9C RU C-ZA.HA91.B.00245/21
SANS	GOCT P M3K 60079-7, 31	16-AV4B0-0238-41X
IP66/68 100m - Parallel	Notification of Ministry of Labour No.2013-54	CNEX 21.3386X
IP65 - Tapered	GB 3836.1, GB3936.2, GB3836.3 GB12476.1, GB12476.5	CNEX_CCC 2021312313000395
IP68 - Tapered and approved grease	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/13-028X
Deluge Protection	IEC 60529	CML 15Y728
Corrosion Protection	IEC 60529	IECEX CML 18.0018X
Marine ABS	ASTM B117-11, BS EN ISO 3231	CML 14CA370-2
DNV-GL	IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529	EXOVA N968667
EMC Compatible	IEC/EN 60079 Part 0, 1, 7, 15, 31	ABS 20-1952706-1-PDA
	EN 55011:2009, EN 55022:2010	DNV-GL TAE0000010
		SGS EMC197708/1



## Conditions for Safe Use - X

- The cable glands shall only be used where the temperature, at the point of entry, is between -50°C and +95°C.
- The cable glands may only be used on fixed installations where the cable is clamped or stress applied to the cable in the gland is prevented.
- Only Resin supplied by CCG may be used in the glands.



PATENTED

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail		Max Length 'E'	Max Dia. Over Cores	Max No. of Cores	Hexagonal Detail		Install. Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'B'	Max 'B'				Max 'Flats'	Max 'Crns'	
056400-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	25.0	8.0	6	24.0	27.0	32.5
056400	00-20ss	M20x1.5	15	1/2 3/4	15	3.0	8.5	25.0	10.9	6	24.0	27.0	32.5
0564-0	0-20s	M20x1.5	15	1/2 3/4	15	7.0	12.0	25.0	10.9	6	24.0	27.0	32.5
056401	1-20	M20x1.5	15	1/2 3/4	15	11.0	15.0	30.0	12.5	13	27.0	30.0	32.5
056422	2s-25s	M25x1.5	15	3/4 1	15/19	11.5	17.5	30.0	15.5	20	35.0	39.0	47.5
056402	2-25	M25x1.5	15	3/4 1	15/19	15.0	20.0	30.0	15.5	20	35.0	39.0	47.5
056433	3s-32s	M32x1.5	15	1 1/4	19	16.0	22.0	30.0	21.7	40	42.0	47.0	55.0
056403	3-32	M32x1.5	15	1 1/4	19	20.0	26.5	30.0	21.7	40	42.0	47.0	55.0
056444	4s-40s	M40x1.5	15	1 1/4 1 1/2	19/21	22.0	31.5	38.0	30.0	60	52.0	59.0	65.0
056404	4-40	M40x1.5	15	1 1/4 1 1/2	19/21	26.0	34.0	38.0	30.0	60	52.0	59.0	65.0
056455	5s-50s	M50x1.5	15	1 1/2 2	21	29.0	38.0	46.0	36.3	80	65.0	73.0	82.5
056405	5-50	M50x1.5	15	1 1/2 2	21	34.0	44.5	46.0	36.3	80	65.0	73.0	82.5
056466	6s-63s	M63x1.5	15	2 1/2	21/30	38.0	50.0	52.0	47.9	100	80.0	90.0	97.5
056406	6-63	M63x1.5	15	2 1/2	21/30	44.5	56.5	52.0	47.9	100	80.0	90.0	97.5
056477	7s-75s	M75x1.5	15	2 1/2 3	30/32	50.0	62.0	54.0	58.2	120	96.0	108.0	115.5
056407	7-75	M75x1.5	15	2 1/2 3	30/32	56.0	67.5	54.0	58.2	120	96.0	108.0	115.5
056408	8-80	M80x2.0	20	3	32	59.0	69.0	68.0	61.5	140	96.0	108.0	120.0
056499	9s-90s	M90x2.0	20	3 3/4	32/33	60.0	75.0	70.0	70.5	160	111.0	125.0	120.0
056409	9-90	M90x2.0	20	3 3/4	32/33	73.0	81.5	70.0	70.5	160	111.0	125.0	120.0
056410	10-100	M100x2.0	20	3 3/4	33/34	81.0	91.0	70.0	79.0	180	125.0	141.0	120.0
056411	11-115	M115x2.0	20	4	34	91.0	101.0	70.0	-	-	135.0	152.0	175.0
056412	12-120	M120x2.0	20	-	-	101.0	109.0	70.0	-	-	140.0	158.0	175.0
056413	13-130	M130x2.0	20	-	-	109.0	116.0	70.0	-	-	146.0	164.0	175.0

All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'

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

A2EXQS-BG210222

# A2EX-QS BARRIER GLAND Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC

### 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°.
- 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

any mismatch).

- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

### OR CLEARANCE HOLES (not Ex d)

- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

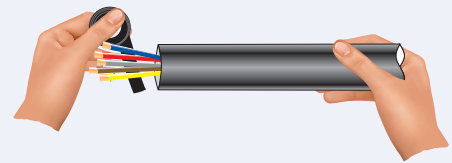
1. Strip back the outer sheath to expose the inner cable cores. Using a clean cloth, clean the cable cores insulation.

If the cable cores have screens these should be cut away or twisted together into a single core. This single core should be insulated with heat shrink tubing or coated with insulating varnish. Any drain wires should also be insulated with heat shrink tubing or coated with insulating varnish.

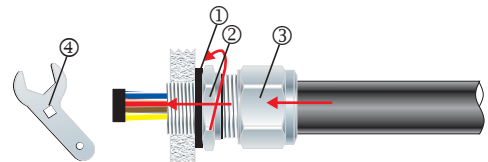


2. Using insulation tape, bundle the cores together at the end.

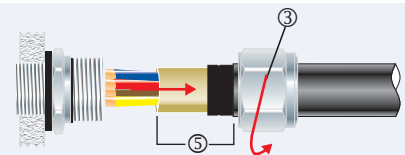
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Insulating Compound.



3. To maintain IP66/68, ensure the gasket ① is in place. Screw the gland unit into the apparatus. Tighten the inner ② using a CCG Spanner ④. Pass the cable end through the outer nut ③ and push the bundled cable cores through the inner ② diaphragm and seal.



4. Unscrew the outer nut ③. Withdraw the cable and barrier pot sub-assembly ⑤. Remove the insulation tape.



5. Remove the cap ⑧ from resin applicator and attach the mixing nozzle ⑨ (use extension nozzle for small multicore cables). Whilst holding the barrier pot sub-assembly ⑤ upright and holding the diaphragm seal firmly against the cable sheath, inject the resin into the resin chamber\*. Ensure the resin fills the inspectible resin seal pot ⑥ all the way to the top of the protective resin pot ⑦ and wipe any excess resin away.

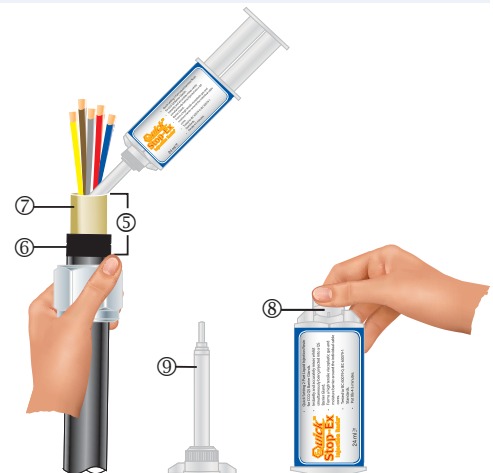
Wait for the resin to set from a liquid to a gel, this should take:

- 15 minutes at 10°C
- 7 minutes at 20°C
- 6 minutes at 30°C
- 5 minutes at 40°C

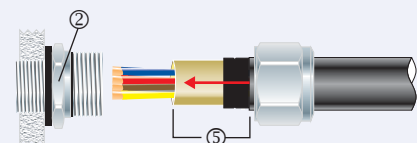


For installations in less than 5°C Ambient, warm the Resin tube in warm water at ± 50°C. If there is still Resin left in the tube, discard the mixing nozzle ⑨ and replace the cap ⑧ for use with the next gland.

\* The installation is acceptable if the cable sheath is pushed 2 or 3mm into the resin seal.



6. Re-insert the barrier pot sub-assembly ⑤ back into the inner ②.



7. Tighten the outer nut ③ to the installation torque using a CCG Spanner ④ to produce a seal and grip on the cable.

