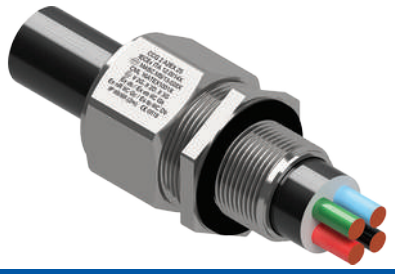
MOFLASH SIGNALLING
BIRMINGHAM, ENGLAND

A2EX

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

COMPRESSION GLAND for Single or Multi-Core Unarmoured Cable



Features and Benefits

- For indoor, outdoor, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- Inner seal, seals on the cable sheath.
- Harder outer seal grips the cable, giving it superior cable retention and IP rating.
- 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).

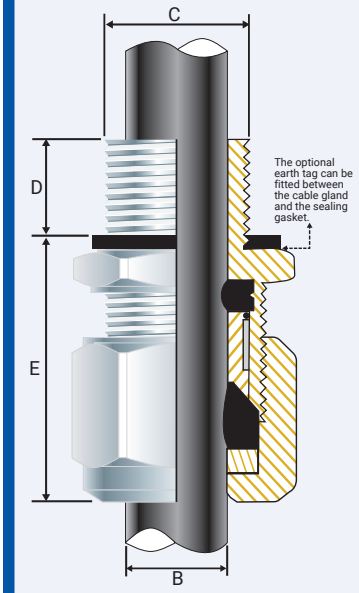
100m IP68 | Ex 30 BAR SEAL

Technical Data

Type:	A2EX
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium and 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
Sealing Area:	Outer 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 ta IIIC Da, Ex nR IIC Gc ATEX/UKEX: Ex II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc 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
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	IEC 60529	CML 15Y728
IP65 - Tapered	IEC 60529	
IP68 - Tapered and approved grease	IEC 60529	IECEx CML 20.0011
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529	25-0164964-PDA
DNV	IEC/EN 60079 Part 0, 1, 7, 15, 31	TAE0000010



PATENTED

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.

MOFLASH SIGNALLING Product Code	Material	Gland Size Reference	Metric Entry Thread 'C'	Metric Entry Thread Min 'D'	Cable Detail Min 'B'	Cable Detail Max 'B'	Maximum Length 'E'	Hexagonal Detail Max 'Flats'	Hexagonal Detail Max 'Crns'	Install. Torque Value Nm
50255	Brass	00-20ss	M20x1.5	15	3.0	8.5	25.0	24.0	27.0	32.5
50256	Brass	0-20s	M20x1.5	15	7.0	12.0	25.0	24.0	27.0	32.5
50201	Brass	1-20	M20x1.5	25	11.0	15.0	30.0	27.0	30.0	32.5
50257	Brass	2-25	M25x1.5	15	15.0	20.0	30.0	35.0	39.0	47.5
50258	Stainless Steel	00-20ss	M20x1.5	15	3.0	8.5	25.0	24.0	27.0	32.5
50259	Stainless Steel	0-20s	M20x1.5	15	7.0	12.0	25.0	24.0	27.0	32.5
50211	Stainless Steel	1-20	M20x1.5	15	11.0	15.0	30.0	27.0	30.0	32.5

All dimensions are in mm. Intermediate thread sizes are available on request.

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 Moflash for assistance.

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A2EX Compression Gland

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

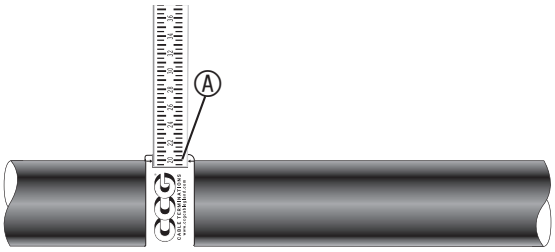
- Must be made from materials which are compatible with the cable gland materials.
- Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 µm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are 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

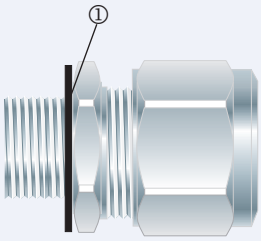
- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

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.)

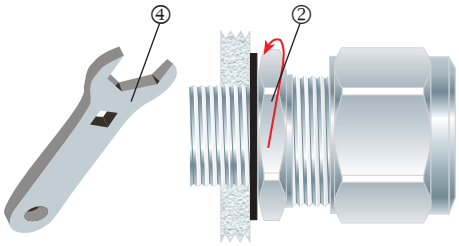


1. For accurate sizing, use a CCG Dimension Tape Ⓐ on the outer cable sheath.



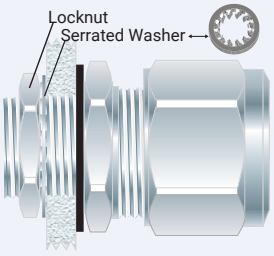
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.

2. To maintain IP66/68, ensure the gasket ① is in place.

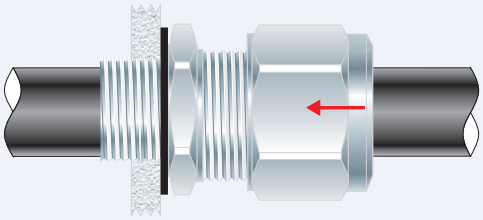


3. Screw the gland unit into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ④.

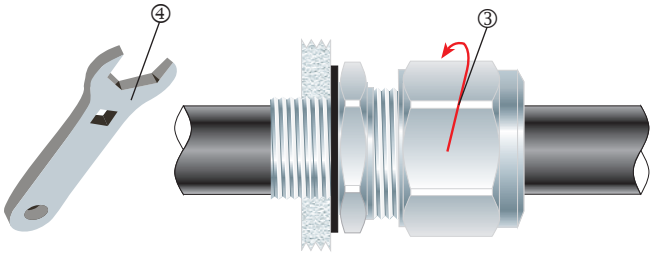
Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.



4. Pass the cable end through the gland assembly.



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